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Case No. U-21534

**QUALIFICATIONS AND DIRECT TESTIMONY OF
ELAINA M. BRAUNSCHWEIG
MICHIGAN PUBLIC SERVICE COMMISSION**

July 26, 2024

QUALIFICATIONS OF ELAINA M. BRAUNSCHWEIG
CASE NUMBER U-21534
PART I

1 Q. Please state your name and business address.

2 A. My name is Elaina M. Braunschweig. Pronouns she/her, but preferably “witness
3 Braunschweig” in place of pronouns and titles. My business address is 7109 West
4 Saginaw Hwy, Lansing, Michigan 48917.

5 Q. By whom are you employed and in what capacity?

6 A. I am employed by the Michigan Public Service Commission (MPSC or
7 Commission) as a Departmental Analyst for the Rates and Tariff Section of the
8 Regulated Energy Division.

9 Q. Please describe your educational background.

10 A. In 2018, I completed my Bachelor of Arts dual-major in Economics &
11 Management and German with a minor in International Studies with honors from
12 Albion College.

13 Q. What are your current responsibilities at the MPSC?

14 A. As an analyst, I participate in rate and tariff amendment under the direct
15 supervision of the Rates and Tariff manager. I am also responsible for
16 coordinating tariff-related *ex-parte* cases and updating the gas and electric bill
17 comparison spreadsheets for the MPSC website. In the middle of 2020, I began
18 liaising with the MPSC Customer Assistance Division on low-income programs
19 and have since specialized in low-income matters. I handle the section's
20 connection to low-income energy assistance and affordability. In July 2021, I
21 began co-leading the Affordability, Alignment, and Assistance subcommittee in
22 the Commission's Energy Affordability and Accessibility Collaborative and
23 continue that to-date.

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1 Q. Have you attended any seminars or other training courses relating to your current
2 role?

3 A. Yes. In August 2021, I participated in Michigan State University's Institute of
4 Public Utilities Annual Regulatory Studies Program Fundamentals Course. In
5 October 2021, I attended Michigan State University's Institute of Public Utilities
6 Advanced Cost Allocation and Rate Design Course, and in February 2022, I
7 attended EUCI's Electric Utility Pricing Trends in Cost Recovery Course.

8 Q. Have you previously presented testimony or participated in utility cases before the
9 MPSC?

10 A. Yes, I have presented testimony or otherwise participated in the following cases:

<u>MPSC Case</u>	<u>Company</u>	<u>Description</u>
U-20650	Consumers Energy—Gas	Rate Design/Low-Income
U-20757	Commission	Low-Income Covid Report
U-20907	UMERC	Budget Billing Revisions
U-20929	DTE Energy	PSP Pilot Proposal
U-21021	Consumers Energy	PIPP Pilot Proposal
U-21148	Consumers Energy—Gas	Rate Design/Low-Income
U-20836	DTE Energy	Low-Income Credits
U-21286	UPPCO	Low-Income Credits
U-21308	Consumers Energy—Gas	Rate Design/Low-Income
U-21461	Indiana Michigan Power	Rate Design/Low-Income
U-21490	Consumers Energy—Gas	Low-Income Credits
U-21291	DTE Gas	Low-Income Credits

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1 Q. What is the purpose of your testimony?

2 A. The purpose of my testimony is to present Staff's position on DTE Electric
3 Company's (the Company) Low Income Assistance Credit (LIA) credit increase
4 proposal, Residential Income Assistance Credit (RIA) customer count projection,
5 and Residential Service Senior Citizen Provision (RSC) customer count
6 projection.

7 Q. Are you sponsoring any exhibits in this proceeding?

8 A. Yes, I am sponsoring the following exhibits:

9 Exhibit No. S-17.0, titled "DTE's Audit Response"

10 Exhibit No. S-17.1, titled "Residential Income Assistance and Residential Senior
11 Citizen Credit Projection Support"

12 Exhibit No. S-17.2, titled "Affordability, Alignment, and Assistance
13 Subcommittee 12/4/2023"

14 Q. Were these exhibits prepared by you or under your supervision?

15 A. Yes, they were.

16 Q. How is your testimony structured?

17 A. My testimony is structured as follows:

18 1. Company Low Income Assistance Credit (LIA) Proposal

19 2. LIA Counterproposal

20 3. LIA Tariff Proposals

21 4. Company RIA Projection

22 5. Staff RIA Projection

23 6. Company RSC Projection

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1 7. Staff RSC Projection

2 8. Summary

3 **1. Company Low Income Assistance Credit (LIA)**
4 **Proposal**

5 Q. Please summarize the Company's LIA-related testimony to which you will be
6 responding.

7 A. Company witness Jason E. Sparks' testimony focuses primarily on justifying the
8 energy assistance options the Company currently offers. Company witness Sparks
9 states that the Company's current Payment Stability Plan (PSP)¹ pilot data will be
10 presented to the Commission's Energy Affordability and Accessibility
11 Collaborative (EAAC) in 2024, in line with Commission directives.² Company
12 witness Sparks proposes to increase the LIA credit from \$40/month to
13 \$50/month,³ stating that at the inception of the LIA credit in U-17767, the credit
14 would have credited approximately 43% of an eligible customer's bill, however,
15 the LIA would only credit approximately 34% of an eligible customer's bill under
16 the Company's most recently approved rates (in MPSC Case No. U-21297).⁴ To
17 have the LIA credit amount cover a similar proportion as when it was originally
18 proposed, the credit would need to be \$50/month, according to Company witness
19 Sparks.⁵ Company witness Sparks therefore proposes increasing the LIA from
20 \$40/month to \$50/month in the instant case.⁶

¹ The PSP is the Company's percentage of income payment plan (PIPP).

² Company witness Sparks, Direct Testimony, pg. 14.

³ Company witness Sparks, Direct Testimony, pg. 19.

⁴ *Id.*

⁵ *Id.*

⁶ *Id.*

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1 Q. Do you support this proposal for Commission approval?

2 A. No, I recommend this proposal be rejected for the reasons I discuss later in my
3 testimony.

4 **2. LIA Counterproposal**

5 Q. What Commission decisions are relevant to discussion of energy assistance
6 proposals?

7 A. As directed in the DTE Electric rate case order in MPSC Case No. U-20836, the
8 Commission charged the EAAC with reviewing a report detailing LIA enrollment
9 and to discuss the LIA enrollment assignment and enrollment cap, followed by
10 submitting a report and recommendations to the Commission.⁷ In the December
11 21, 2023 Order in MPSC Case No. U-20757, the Commission reaffirmed its
12 interest in the EAAC's analysis of utilities' Residential Income Assistance
13 Credit/Low Income Assistance Credit⁸ as fulfillment of MCL 460.11(2) and
14 directed Staff to include analysis of PIPPs and Michigan Energy Assistance
15 Program (MEAP) offerings to assist the Commission in understanding current
16 energy assistance offerings.⁹

17 Q. Based on the cited Commission orders, what is your reaction to the Company's
18 position?

19 A. My position is that Michigan's most vulnerable customers would benefit from
20 additional assistance, but I am not persuaded that Company witness Sparks

⁷ MPSC Case No. U-20836, 11/18/22 Order, p. 407.

⁸ Abbreviated to RIA/LIA

⁹ MPSC Case No. U-20757, 12/21/23 Order, pp. 14-15.

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1 provides the comprehensive analysis and diverse, collaborative input the
2 Commission is looking for to inform utility energy assistance changes. As
3 indicated by the cited orders, this collaborative RIA/LIA reform work is being
4 performed in the EAAC workgroups. Staff's position is that collaborative
5 discussions with interested/invested parties as well as all investor-owned utilities
6 will lead to the most informed positions and decisions on this matter.
7 I will not be responding to Company witness Sparks' claimed best use-case of the
8 RIA nor LIA credits nor their effectiveness, but that does not indicate my
9 agreement with those claims nor other related Company policy and procedures,
10 since it is my position that these matters are appropriately being addressed
11 elsewhere at the Commission's direction.

12 Q. Has the EAAC completed the directives in the Commission orders discussed
13 previously?

14 A. Not completely. The Affordability, Alignment, and Assistance subcommittee
15 (AAA) of the EAAC has already outlined three options to replace or modify the
16 current RIA and LIA credits, including cost estimates based on utilities that
17 complied with the AAA data requests. This information can more specifically be
18 found summarized in the December 5, 2023 meeting PowerPoint presentation¹⁰ in
19 which Staff synthesized data submitted by the utilities.¹¹

¹⁰ Exhibit No. S-17.2. Slide title formatting was modified from the original presentation to add exhibit information, however, the content of the PowerPoint was not changed.

¹¹ The AAA also has materials that will provide much more in-depth detail outlining the reform options, but Staff is not submitting that as evidence at this time due to its premature nature, since the goal of Staff's testimony in the instant case is not to propose those reform options to the Commission. The PowerPoint serves as evidence that RIA/LIA reform discussions and analysis are underway.

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1 Similar to Company witness Sparks' proposal, the second option discussed in the
2 AAA included tying a single credit which would increase proportionally with
3 rates.¹² Staff appreciates Company witness Sparks' ideas and analysis and can
4 consider them in its RIA/LIA reform proposals in the AAA.

5 Q. Do representatives from the Company or its affiliates participate in the AAA
6 subcommittee?

7 A. Yes.

8 Q. Has the AAA submitted the previously discussed proposal and analysis to the
9 Commission yet?

10 A. No, the report has not yet been submitted because the PIPP pilots are not yet
11 complete and, as Company witness Sparks noted, have not been presented to the
12 EAAC for analysis. Once the EAAC receives this analysis later this year, the
13 EAAC can move forward with completing its Commission directives.
14 Staff's preliminary admission of EAAC materials in the instant case aims only to
15 demonstrate to the Commission that proposals similar to Company witness
16 Sparks' proposal are being examined in the EAAC. Staff's aim is not to propose
17 any of the EAAC's RIA/LIA reforms for approval in the instant case, as they have
18 not yet been fully examined.

19 Q. Could the timeline for the AAA report conflict with the statutory deadlines in the
20 current rate case?

¹² Exhibit No. S-17.2, pp. 13, 15, 17.

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1 A. Yes, the legislatively required 10-month date for a Commission decision in the
2 instant case is approximately January 28, 2025. Currently the AAA subcommittee
3 is targeting a deadline for DTE to submit its PIPP analysis by the end of this year,
4 with a MPSC Staff response to the PIPP report as well as a resolution to the
5 LIA/energy assistance analysis targeted to be sometime in the first quarter of
6 2025.

7 Q. What is Staff's recommendation in the instant case?

8 A. Since work is underway to reform the RIA and LIA credits, as demonstrated by
9 the above discussion and evidence, Staff recommends the Commission not
10 approve any changes to the structure of the credits and instead leave this issue to
11 the EAAC until it completes its relevant Commission directives.

12 Q. How did Staff incorporate this recommendation in its case?

13 A. Staff witness David W. Isakson updated Staff's proposed LIA credit amount on
14 Schedule F-3 across all applicable residential rate schedules to remain at \$40,
15 consistent with Staff's recommendation.

3. LIA Tariff Proposals

17 Q. Do you have any recommendations relating to the LIA tariff on all proposed
18 residential tariff sheets?

19 A. Yes. Whether the Commission rejects or accepts my LIA credit amount
20 recommendation, the credit amount outlined in the tariff should reflect the
21 Commission's decision.

22 Additionally, whether or not the Commission approves the migration of LIA
23 customers from rate D1.6 to all residential rate schedules, as recommended by

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1 Staff witness David W. Isakson and Company witness Aaron Willis, the LIA
2 language should be updated to reflect the language currently approved by the
3 Commission and used by other regulated utilities. Staff's proposed language
4 should accurately reflect the eligibility requirements already employed by the
5 Company and defined in MCL 460.10 (t), which is the statute that defines the
6 eligibility of customers receiving this form of assistance.

7 Q. What tariff language is Staff proposing edits to?

8 A. "SPECIAL LOW INCOME ASSISTANCE (LIA) CREDIT: To qualify for this
9 credit a customer must provide annual evidence of receiving a Home Heating
10 Credit (HHC) energy draft or warrant, or must provide confirmation by an
11 authorized State or Federal agency verifying that the customer's total household
12 income does not exceed 150% of the poverty level as published by the United
13 States department of health and human services or if the customer receives any of
14 the following: i) Assistance from a state emergency relief program; ii) Food
15 stamps or iii) Medicaid. This credit shall be limited to an annual average of
16 32,000 customers. This credit shall not be taken in conjunction with a credit for
17 the Income Assistance Service Provision (RIA) or the Senior Citizen Provision
18 Delivery Charges: The Special Low Income Assistance Credit is \$(50.00) per
19 customer per month and is applicable to Full Service and Retail Open Access
20 customers."

21 Q. What is Staff proposing as the new language?

22 A. "Low Income Assistance Credit Pilot
23 This credit is available to up to an annual average of 32,000 qualifying customers
24 taking service under an applicable residential rate schedule. This credit shall not
25 be taken in conjunction with a credit for the Income Assistance Service Provision
26 (RIA) or the Senior Citizen Provision.
27 In addition to the income verification methods listed above, a customer may
28 qualify for the Low Income Assistance Credit Pilot with proof of Enrollment in
29 the Company's affordable payment plan as sanctioned under the Michigan Energy
30 Assistance Program (MEAP) or having received one-time MEAP assistance in the
31 past 12 months.
32 The monthly credit for the residential Low Income Assistance Credit shall be
33 applied as follows: Income Assistance Credit: \$(40.00) per meter per month.
34 If a credit balance occurs, the credit shall apply to the customer's future utility
35 charges."

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1 Q. Why is this language preferable to the Company-proposed language?

2 A. The above language is preferable because it more succinctly defines eligibility by
3 using the RIA eligibility (“income verification methods listed above”) instead of
4 listing out eligibility criteria, and it should reflect the current enrollment practices
5 more accurately (the Company largely pairs the LIA with affordable payment
6 plan recipients). Additionally, it is best to clarify that the 32,000 enrollment cap is
7 across all residential rate schedules and not for each individual rate schedule on
8 which this language will appear.

9 **4. Company RIA Projection**

10 Q. What monthly RIA credit disbursement figure did the Company propose recovery
11 of in the instant case?

12 A. The Company included recovery of 83,000 monthly RIA credits in the test year.¹³

13 Q. Did the Company provide support for its calculation or basis for the projection in
14 its initial filing?

15 A. No, it did not.

16 Q. Does Staff support this projection?

17 A. No, it does not. When Staff inquired through audit requests, the Company
18 provided its explanation for its projection, but failed to provide the calculation
19 when requested.¹⁴ According to the Company’s response, the RIA projection is
20 based on average historical RIA percent increases. However, as is shown in the

¹³ Direct testimony of Company witness Jason E. Sparks, p. 16.

¹⁴ Exhibit No. S-17.0

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1 exhibit detailing the response, the percent increases have been very inconsistent
2 and there seems to be no pattern in the percentage increase in RIA enrollments.
3 The Company did not explain why this projection method was used when Staff
4 asked.

5. Staff RIA Projection

6 Q. What RIA credit disbursement projection does Staff support for recovery in rates?

7 A. Staff supports using a 3-year historical average monthly credit disbursement
8 number of 56,134, which has a corresponding revenue adjustment of \$2,740,321,
9 as detailed in Exhibit No. S-17.1.

10 Q. In developing your RIA projection, why did you not include the enrollment data
11 from 2023 that was provided on page 16 of Company witness Sparks' testimony?

12 A. I did not include the data because Company witness Sparks indicated in testimony
13 that the customer counts he used were from billing period end of month snapshots
14 instead of monthly averages, as is used in Part III Attachment 5(9). If you
15 compare the data on page 16 of Company witness Sparks' testimony to data
16 reported in Part III Attachment 5(9), you will see the reported enrollment numbers
17 are different. Staff does not support using data as of a single point in time on
18 which to base the RIA projections, rather being in favor of monthly/annual
19 averages. The Commission has denied the use of single point in time data in
20 developing the RIA projection in MPSC Case No. U-21389, which Staff cites
21 later in testimony.

22 Q. Why is this projection method more reasonable than the Company's?

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1 A. It is more reasonable because the projection normalizes for enrollment
2 fluctuations caused by one of the main contributors to RIA enrollments: the Low
3 Income Home Energy Assistance Program, as I will describe.

4 Q. What are the main qualifiers for RIA recipients?

5 A. The main identifiers for RIA eligibility and thus automatic enrollment into this
6 program are: the Michigan Department of Health and Human Services (MDHHS),
7 the Michigan Department of Treasury, or Michigan Energy Assistance Program
8 (MEAP) grantees notifying utilities of a customer receiving a State Emergency
9 Relief (SER) payment, a Home Heating Credit (HHC) energy draft, or one-time
10 assistance payment, respectively, that would get applied to their account. These
11 programs require the utilities to apply a payment to the customer's account on the
12 program manager's behalf, which identify the customer as RIA-qualified, as per
13 MCL 460.11 (2) and defined in MCL 460.10(t).

14 Q. What impacts RIA credit enrollment fluctuations?

15 A. SER and HHC are funded by the Low-Income Home Energy Assistance Program
16 (LIHEAP); MDHHS could also allocate LIHEAP SER dollars to other programs
17 such as Energy Direct one-time payments (however, this program seems to have
18 come to an end). Since all but MEAP are funded by federal LIHEAP dollars, the
19 main determinant of RIA enrollment fluctuation is average LIHEAP funding
20 levels.

21 Q. What are the historical funding levels for MEAP?

22 A. MEAP was established through Public Act 615 of 2012 and is funded at
23 \$50,000,000 annually per Public Act 95 of 2013.

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1 Q. What are the historical LIHEAP funding levels for Michigan?

2 A. Please see the chart below.

Historical Michigan LIHEAP Funding		
Fiscal Year	Funding Level	Monthly RIA Enrollments (fiscal years)¹⁵
October 1, 2019- September 30, 2020	\$ 197,960,572.00	39,013
October 1, 2020- September 30, 2021	\$ 435,542,243.25	54,773
October 1, 2021- September 30, 2022	\$ 166,875,852.32	65,521
October 1, 2022- September 30, 2023	\$ 269,598,865.00	77,107*
October 1, 2023- September 30, 2024	\$ 161,019,682	
Company TY		83,000

3 *from page 16 of the direct testimony of Company witness Jason E. Sparks.
4 Mostly based on month-end snapshots instead of monthly averages

5 Q. Please further explain how average LIHEAP funding levels are the main
6 determinant of RIA enrollment fluctuation.

7 A. I specify average funding levels because year-to-year LIHEAP funding levels
8 change. How MDHHS allocates LIHEAP dollars and how much assistance each
9 customer receives will influence the number of RIA-eligible LIHEAP recipients.
10 This will create trends in the RIA enrollment, but RIA enrollment will not
11 necessarily increase proportional to the LIHEAP funding level. Especially if the

¹⁵ Exhibit No. S-17.1

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1 United States Congress passes bills that allocate additional LIHEAP funding to
2 each state that may not be required to be spent within the fiscal year like normal
3 LIHEAP allocations are. For example, fiscal years 2021¹⁶ and 2023¹⁷ included
4 additional Covid-related funding that has since been exhausted. The increase in
5 RIA enrollment from 2021 to 2022, however, was partly due to an increase in
6 SER as well as four rounds of LIHEAP Direct Support (now called Energy
7 Direct) payments in 2022 and 2023.¹⁸

8 Q. Is the elevated RIA enrollment from Covid-19 related funding and LIHEAP
9 Energy Direct in 2022-2023 expected to carry over into the test year?

10 A. No, it is not. Since RIA customer eligibility is re-verified annually,¹⁹ the higher
11 number of recipients the Company reported in 2022 and 2023 should not be
12 automatically rolled over into the test year, meaning RIA enrollments should
13 slowly decrease in the absence of the elevated Covid-related funding.

14 Q. What relevant RIA projection has been accepted by the Commission in recent rate
15 cases?

16 A. In Consumers Electric's rate Case No. U-21389, the Commission stated on page
17 148 of its March 1, 2024 order: "The Commission finds the Staff's position and
18 the ALJ's recommendation well-reasoned and supported by the record.

¹⁶ See information on the [American Rescue Plan](#).

¹⁷ See information on the Inflation Reduction Act and the linked White House [press release](#).

¹⁸ Staff's use of "Covid-related" refers to the federal funding increases aimed at lessening the after-effects of the Covid-19 pandemic, such as the American Rescue Plan and Inflation Reduction Act.

¹⁹ See DTE Electric Company's [rate book](#), ninth revised Sheet No. D-2.00 under "Income Assistance Service Provision", which states in part: "For an income assistance customer to qualify for this credit, the Company shall require annual evidence of the HHC energy draft or warrant."

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1 Accordingly, the Commission adopts the ALJ's findings and conclusion on this
2 issue." The referenced ALJ recommendation from her PFD stated:

3 This PFD finds Staff's position persuasive. First, Staff's use of an entire
4 year of RIA credits, rather than a simple comparison of customer counts
5 for two months one year apart, more accurately demonstrates the trend in
6 RIA enrollment and the fact that customers do not necessarily reenroll in
7 the program. Second, the company's projection depends on actual
8 enrollment in March of 2023, which appears to be the result of COVID-
9 related LIHEAP disbursements, coupled with speculation about increased
10 numbers due to more outreach and possible future funding from LIHEAP
11 and DHHS. Lastly, the PFD agrees with Staff that without a tracker or
12 deferred accounting, over-projection of RIA credits would result in DTE
13 retaining any overcollection. Thus, an accurate projection for this credit is
14 even more important.²⁰

6. Company RSC Projection

15
16 Q. Did the Company provide testimony in its initial filing proposing a Residential
17 Senior Citizen Credit (RSC) customer count projection?

18 A. No.

19 Q. What revenue recovery figure and number of credit disbursements did the
20 Company include recovery of in its Schedule F-3, rate design model?

21 A. 104,224 monthly credit disbursements, totaling \$5,315,424.

7. Staff RSC Projection

22
23 Q. What projection number does Staff support revenue recovery of for the RSC
24 credit?

25 A. Staff supports using a 3-year historical average of actual RSC credit disbursement
26 amounts, which totals 94,525 with a revenue increase of \$494,656 and is

²⁰ MPSC Case No. U-21398, 12/21/2023, PFD, p. 379.

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1 incorporated on the residential rate schedules in Schedule F-3, sponsored by Staff
2 witness David W. Isakson.²¹

3 Q. What evidence do you provide to support your position?

4 A. I cite the historical credit amounts reported in Part III attachment 5(9), which are
5 depicted in the table below.

RSC Credit Disbursements	
Year	Monthly Disbursements
DTE-Proposed Test Year	104,224
2022	95,329
2021	94,117
2020	94,129
2019	98,484
2018	109,091

6 As is evident in the above table, credit disbursement amounts have been relatively
7 stable for the 3 historical years provided by the Company in Attachment 5(9) of
8 its Part III filing requirements. Absent significant interest in or outreach to enroll
9 customers in the credit, there is no evidence on the record that this program would
10 experience a significant increase in enrollment.

²¹ Supporting calculations in Exhibit No. S-17.1

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Total Population by Selected Age Groups
Michigan 2000-2022

Year	Total	< 18		18 - 44		45 - 64		65 & Over	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
2022	10,033,757	2,109,759	21.0	3,483,209	34.7	2,560,711	25.5	1,880,078	18.7
2021	10,037,169	2,130,494	21.2	3,467,646	34.5	2,606,972	26.0	1,832,057	18.3
2020	10,069,614	2,154,501	21.4	3,475,155	34.5	2,650,941	26.3	1,789,017	17.8
2019	9,986,857	2,143,933	21.5	3,423,309	34.3	2,654,214	26.6	1,765,401	17.7
2018	9,984,072	2,162,182	21.7	3,415,762	34.2	2,692,772	27.0	1,713,356	17.2
2017	9,973,114	2,180,747	21.9	3,405,184	34.1	2,722,853	27.3	1,664,330	16.7
2016	9,950,571	2,193,921	22.0	3,396,407	34.1	2,742,849	27.6	1,617,394	16.3
2015	9,931,715	2,209,035	22.2	3,398,276	34.2	2,752,697	27.7	1,571,707	15.8
2014	9,929,848	2,230,079	22.5	3,409,065	34.3	2,759,488	27.8	1,531,216	15.4
2013	9,913,065	2,249,312	22.7	3,408,947	34.4	2,767,253	27.9	1,487,553	15.0
2012	9,897,145	2,272,804	23.0	3,405,183	34.4	2,776,100	28.0	1,443,058	14.6
2011	9,883,053	2,301,921	23.3	3,403,024	34.4	2,789,470	28.2	1,388,638	14.1
2010	9,877,510	2,334,175	23.6	3,409,975	34.5	2,767,075	28.0	1,366,285	13.8
2009	9,901,591	2,372,603	24.0	3,449,020	34.8	2,736,345	27.6	1,343,623	13.6
2008	9,946,889	2,418,879	24.3	3,507,576	35.3	2,699,413	27.1	1,321,021	13.3
2007	10,001,284	2,470,063	24.7	3,568,443	35.7	2,671,540	26.7	1,291,238	12.9
2006	10,036,081	2,503,548	24.9	3,634,296	36.2	2,628,794	26.2	1,269,443	12.6
2005	10,051,137	2,531,839	25.2	3,690,254	36.7	2,573,778	25.6	1,255,266	12.5
2004	10,055,315	2,553,314	25.4	3,742,180	37.2	2,512,778	25.0	1,247,043	12.4
2003	10,041,152	2,569,080	25.6	3,785,004	37.7	2,448,494	24.4	1,238,574	12.3
2002	10,015,710	2,584,310	25.8	3,820,033	38.1	2,381,204	23.8	1,230,163	12.3
2001	9,991,120	2,593,310	26.0	3,861,148	38.6	2,310,403	23.1	1,226,259	12.3
2000	9,952,450	2,596,114	26.1	3,889,337	39.1	2,245,700	22.6	1,221,299	12.3

Additionally, as shown in the graphic above²², the percentage of Michigan residents 65 years of age and older has hardly changed over the past 3 years—especially not enough to warrant the 8.5% increase in the senior credit that the Company is requesting. Therefore, I recommend disapproval of the Company’s credit recovery figure in favor of my projection.

8. Summary

Q. Please summarize your positions and recommendations in your direct testimony.

²² Source: Michigan Department of Health and Human Services [online population graphic](#).

DIRECT TESTIMONY OF ELAINA M. BRAUNSCHWEIG
CASE NUMBER U-21534
PART II

- 1 | A. Staff proposes the following:
- 2 | The Commission reject the Company's LIA credit increase proposal to allow this
- 3 | issue to continue to be more fully analyzed and addressed in the Commission's
- 4 | EAAC workgroup;
- 5 | Updating the LIA tariff language across residential schedules to reflect Company
- 6 | enrollment practices and Commission decisions;
- 7 | Approving Staff's RIA enrollment projection of 56,134;
- 8 | Approving Staff's RSC enrollment projection of 94,525.
- 9 | Q. Does this conclude your testimony?
- 10 | A. Yes, it does.

S T A T E O F M I C H I G A N
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

* * * *

In the matter of the Application of	)	
DTE ELECTRIC COMPANY	)	
for authority to increase its rates, amend	)	Case No. U- 21534
its rate schedules and rules governing the	)	
distribution and supply of electric energy, and	)	
<u>for miscellaneous accounting authority.</u>	)	

QUALIFICATIONS AND DIRECT TESTIMONY OF
JUSTIN J. HECHT
MICHIGAN PUBLIC SERVICE COMMISSION

July 26, 2024

QUALIFICATIONS OF JUSTIN J. HECHT
CASE NUMBER U-21534
PART I

1 Q. Please state your name and business address.

2 A. My name is Justin J. Hecht and my business address is 7109 West Saginaw
3 Highway, Lansing, MI 48917.

4 Q. By whom are you employed and in what capacity?

5 A. I am employed by the Michigan Public Service Commission ("MPSC" or
6 "Commission") as an auditor in the Revenue Requirements section of the
7 Regulated Energy Division.

8 Q. Please briefly describe your educational background and other professional
9 qualifications.

10 A. I earned a Bachelor of Business Administration Degree in Accounting from
11 Northwood University in 2014. In February 2023, I completed the National
12 Association of Regulatory Utility Commission ("NARUC") Rate Case Basics
13 course. In November 2023, I completed the Institute of Public Utilities ("IPU")
14 Advanced Regulatory Accounting and Auditing course.

15 Q. Please describe your professional background.

16 A. I was previously employed at Andrews Hooper Pavlik, PLC as a staff accountant,
17 from November 2014 through September 2017, where I performed tax
18 preparation and audits of financial institutions. I was previously employed at
19 Berthiaume & Company, CPAs as an in-charge auditor, from October 2017
20 through January 2023, where I performed audits of governmental and nonprofit
21 entities. I began my employment with the MPSC in February 2023 as an auditor
22 in the Rate Base Unit of the Regulated Energy Division. My current
23 responsibilities include, but are not limited to, performing rate case audits using

QUALIFICATIONS OF JUSTIN J. HECHT
CASE NUMBER U-21534
PART I

1 the financial and operating records of regulated utilities, applicable laws,
2 regulations, and Commission policies to determine the necessity of rate relief.

3 Q. Briefly discuss your involvement with the MPSC cases.

4 A. I have performed audit work in the following cases:

5	<u>Case Number</u>	<u>Company</u>	<u>Case Type</u>
6	U-21366	MGU	Gas Rate Case
7	U-21297	DTE Electric Company	Electric Rate Case
8	U-21389	Consumers Energy Co.	Electric Rate Case
9	U-21412	I&M Power Company	Depreciation Rate Case
10	U-21461	I&M Power Company	Electric Rate Case
11	U-21384	DTE Gas Company	Depreciation Rate Case
12	U-21291	DTE Gas Company	Gas Rate Case
13	U-21540	MGU	Gas Rate Case

14 Q. Have you previously sponsored testimony before the Michigan Public Service
15 Commission?

16 A. Yes. I have sponsored testimony in the following cases:

17	<u>Case Number</u>	<u>Company</u>	<u>Case Type</u>
18	U-21297	DTE Electric Company	Electric Rate Case
19	U-21389	Consumers Energy Co.	Electric Rate Case
20	U-21461	I&M Power Company	Electric Rate Case
21	U-21291	DTE Gas Company	Gas Rate Case
22	U-21540	MGU	Gas Rate Case

DIRECT TESTIMONY OF JUSTIN J. HECHT
CASE NUMBER U-21534
PART II

1 Q. What is the purpose of your testimony?

2 A. The purpose of my testimony is to present the MPSC Staff's ("Staff") projected
3 total rate base for the 12-month period ending December 31, 2025, ("projected
4 test year") in the instant DTE Electric Company ("DTE" or the "Company")
5 electric rate case. Additionally, I will be supporting adjustments to the Company's
6 projected depreciation and amortization expense and property tax expense,
7 presented on Staff Exhibit S-3, Schedule C1.1, sponsored by Staff witness
8 Nichols.

9 Q. Are you sponsoring any exhibits in this proceeding?

10 A. Yes, I am sponsoring the following exhibits:

11 S-2 Schedule B1: Projected Rate Base for Test Year Ending 12/31/25

12 S-2 Schedule B4: Projected Working Capital for Test Year Ending 12/31/25

13 S-11.0 Company Response to MPSC Staff Audit Request JJH-1

14 Q. Were these exhibits prepared by you or under your direction?

15 A. Yes.

16 **RATE BASE**

17 Q. What is the total rate base being presented by Staff in the instant case for the
18 projected test year?

19 A. Referring to Staff Exhibit S-2, Schedule B1, Line 16, Column (e), Staff presents a
20 total projected rate base of \$21,967,013,000.

DIRECT TESTIMONY OF JUSTIN J. HECHT
CASE NUMBER U-21534
PART II

This is a decrease of \$140,976,000 from the Company's \$22,107,989,000 projection presented on Exhibit A-12, Schedule B1, Line 16, Column (d), in its initial filing. Below, my testimony will address the individual components resulting in the \$140,976,000 reduction to the Company's filed projected rate base.

Total Utility Plant

Q. What is the total utility plant being presented by Staff for the projected test year?

A. Referring to Exhibit S-2, Schedule B1, Line 6, Column (e), Staff presents a projected total utility plant of \$27,285,015,000. This is a decrease of \$143,540,000 from the Company's \$27,428,555,000 projection presented on Exhibit A-12, Schedule B1, Line 6, Column (d), in its initial filing.

Q. Please explain the \$143,540,000 decrease.

A. The \$143,540,000 decrease is the corresponding impact to plant in service resulting from Staff adjustments to the Company's historic and projected capital expenditures. A summary of those adjustments and the Staff witness supporting each is illustrated in Figure 1 below.

FIGURE 1* (\$000)		Total Cap Ex	Test Year Impacts From Historic and Projected Capital Spend Adj				
			Plant	Accum. Depr.	Net Rate Base	Depreciation	Property Tax
Staff Witness	Adjustment Description	Increase / (Decrease)	Increase / (Decrease)	Increase / (Decrease)	Increase / (Decrease)	Increase / (Decrease)	Increase / (Decrease)
Kindschy	Production Plant - Steam	(66,053)	(50,873)	(1,373)	(49,500)	(1,638)	-
Kindschy	Production Plant - MERC / Fuel Supply	(103)	(103)	(8)	(95)	(3)	(3)
DeCooman	Production Plant - Other	(14,683)	(4,773)	(133)	(4,640)	(103)	(81)
Kindschy	Production Plant - Nuclear	(45,550)	(37,463)	(1,502)	(35,961)	(1,597)	-
DeCooman	Distribution	(14,420)	-	-	-	-	(10)
Matthews	Demand Side Management	(2,000)	(1,700)	(310)	(1,390)	(340)	(15)
Rogers	Information Technology	(58,565)	(47,548)	(9,845)	(37,703)	(8,507)	-
Fromm	Corporate Staff	(1,440)	(1,080)	(68)	(1,012)	(82)	(8)
	TOTAL	(202,814)	(143,540)	(13,238)	(130,301)	(12,270)	(117)

*Source - WP-JJH-1

DIRECT TESTIMONY OF JUSTIN J. HECHT
CASE NUMBER U-21534
PART II

Depreciation Reserve

Q. What is the depreciation reserve amount being presented by Staff for the projected test year?

A. Referring to Exhibit S-2, Schedule B1, Line 7, Column (e), Staff presents a projected depreciation reserve of \$6,764,051,000. This is a decrease of \$13,238,000 from the Company's \$6,777,289,000 projection presented on Exhibit A-12, Schedule B1, Line 7, Column (d), in its initial filing.

Q. Please explain the \$13,238,000 decrease?

A. The \$13,238,000 decrease is the corresponding impact to the depreciation reserve resulting from Staff adjustments to the Company's historic and projected capital expenditures (refer to Figure 1 on page 4 of my testimony).

Working Capital

Q. What is the projected test year working capital being presented by Staff?

A. Referring to Staff Exhibit S-2, Schedule B4, Line 76, Column (g), Staff presents a projected working capital of \$1,284,697,000. This is a decrease of \$10,675,000 from the Company's \$1,295,372,000 projection presented on Exhibit A-12, B4, Line 76, Column (c), in its initial filing.

DIRECT TESTIMONY OF JUSTIN J. HECHT
CASE NUMBER U-21534
PART II

1 Q. Please explain the \$10,675,000 decrease.

2 A. The \$10,675,000 decrease is the result of two adjustments made by Staff and are
3 as follows. First, line 11, Other Accounts Receivable, was reduced by \$6,111,000.
4 I will discuss this adjustment in my testimony below. Second, line 34, Reg Asset
5 – Charging Forward, was reduced by \$4,564,000 which is the corresponding
6 impact from Staff Witness Freeman’s Charging Forward recommendations in his
7 direct testimony.

8 Q. Please explain your adjustment to reduce line 11, Other Accounts Receivable, in
9 the amount of \$6,111,000.

10 A. Staff Exhibit S-11.0 is a response from the Company asserting that \$6,111,000 of
11 the balance within other accounts receivable should be considered non-
12 recoverable. The Company notes it should be considered non-recoverable in rates
13 since it relates to non-utility balance. Therefore, I’ve made an adjustment to
14 reduce other accounts receivable by this amount.

15 **DEPRECIATION AND AMORTIZATION EXPENSE ADJUSTMENTS**

16 Q. The Company provides a projected test year amount for depreciation and
17 amortization expense of \$1,266,245,000 on its Exhibit A-13, Schedule C1, in its
18 initial filing, is that correct?

19 A. Yes.

20 Q. What adjustments to the Company projected depreciation expense are you
21 supporting?

DIRECT TESTIMONY OF JUSTIN J. HECHT
CASE NUMBER U-21534
PART II

1 A. I am supporting an adjustment on Exhibit S-3, Schedule C1.1, Line 43, Column
2 (j), sponsored by Staff witness Nichols, to decrease the Company's projected
3 depreciation expense by \$12,270,000 to \$1,253,974,000.

4 Q. Please explain the \$12,270,000 decrease?

5 A. The \$12,270,000 decrease is comprised of the corresponding impacts on
6 depreciation and amortization expense resulting from Staff adjustments to the
7 Company's historic and projected capital expenditures (refer to Figure 1 on page
8 4 of my testimony).

9 **PROPERTY TAX EXPENSE ADJUSTMENT**

10 Q. What adjustment to the Company's test year projected property tax expense are
11 you supporting?

12 A. I am supporting an adjustment on Exhibit S-3, Schedule C-1.1, Line 43, Column
13 (j), sponsored by Staff witness Nichols, to decrease the Company's test year
14 projection by \$117,000.

15 Q. Please explain the \$117,000 reduction.

16 A. The \$117,000 reduction is the corresponding impact on property tax expense
17 resulting from Staff's adjustments to the Company's historic and projected capital
18 expenditures (refer to Figure 1 on page 4 of my testimony).

19 Q. Why did you incorporate this adjustment as part of the test year impacts resulting
20 from Staff's adjustments to the Company's historic and projected capital
21 expenditures?

DIRECT TESTIMONY OF JUSTIN J. HECHT
CASE NUMBER U-21534
PART II

1 A. The Company's projected property tax expense is developed, in part, by using its
2 projected tax liability. The projected tax liability is derived from historic and
3 projected capital expenditures. Since Staff is recommending capital expenditure
4 reductions, a corresponding adjustment is needed to decrease the projected test
5 year property tax expense.

6 Q. Does this conclude your testimony?

7 A. Yes.

S T A T E O F M I C H I G A N
B E F O R E T H E M I C H I G A N P U B L I C S E R V I C E C O M M I S S I O N

* * * *

In the matter of the Application of	)	
DTE ELECTRIC COMPANY	)	
for authority to increase its rates, amend	)	Case No. U-21534
its rate schedules and rules governing the	)	
distribution and supply of electric energy, and	)	
<u>for miscellaneous accounting authority.</u>	)	

Q U A L I F I C A T I O N S A N D D I R E C T T E S T I M O N Y O F
D A V I D W . I S A K S O N
M I C H I G A N P U B L I C S E R V I C E C O M M I S S I O N

July 26, 2024

QUALIFICATIONS OF DAVID W. ISAKSON
CASE NUMBER U-21534
PART I

1 Q. Please state your name, address, and current position.

2 A. My name is David W. Isakson (he/him/his). My business address is 7109 West
3 Saginaw Hwy, Lansing, Michigan 48917. I am currently employed by the
4 Michigan Public Service Commission (MPSC or Commission) in the Rates and
5 Tariff Section of the Regulated Energy Division as a Departmental Analyst.

6 Q. Would you briefly describe your educational background?

7 A. I earned a B.S. in economics from Central Michigan University in 2008. In 2011,
8 I completed an M.A. in economics at Central Michigan University.

9 Q. Have you attended any seminars or other training courses?

10 A. Yes. In August 2012, I completed the National Association of Regulatory Utility
11 Commissioners (NARUC) Annual Regulatory Studies Program held at Michigan
12 State University. I attended the AEIC Advanced Load Research Seminar in
13 October 2012, and the Electric Cost of Service Study and Electric Utility Pricing
14 courses hosted by EUCI in July 2019.

15 Q. What are your responsibilities in your current position?

16 A. I participate in rate, tariff amendment, reconciliation, integrated resource plan
17 (IRP), special contract, *ex parte* tariff, and other cases under the supervision of the
18 Rates and Tariff manager. My work involves performing electric rate design, gas
19 rate design, and tariff analysis. My duties also involve performing research in
20 special topics such as rate benchmarking, load research, demand response, and the
21 economics of public utility regulation.

22 Q. Have you previously presented testimony in cases before the MPSC?

23 A. Yes, I have presented testimony in the following cases:

QUALIFICATIONS OF DAVID W. ISAKSON
CASE NUMBER U-21534
PART I

	<u>MPSC Case</u>	<u>Company</u>	<u>Work Description</u>
1			
2	U-17437	DTE Electric Company	PLD Transition Plan
3	U-17643	Consumers Energy Company	Gas Rate Design
4	U-17761	DTE Electric Company	PLD Trans. Reconciliation
5	U-17767	DTE Electric Company	Electric Rate Design
6	U-17999	DTE Gas Company	Gas Cost of Service Study
7	U-18014	DTE Electric Company	Electric Rate Design
8	U-18124	Consumers Energy Company	Gas Cost of Service Study
9	U-18322	Consumers Energy Company	Electric Rate Design
10	U-18424	Consumers Energy Company	Gas Cost of Service Study
11	U-18999	DTE Gas Company	Gas Cost of Service Study
12	U-20102	Consumers Energy Company	Electric TCJA Credit A
13	U-20103	Consumers Energy Company	Gas TCJA Credit A
14	U-20134	Consumers Energy Company	Electric Rate Design
15	U-20165	Consumers Energy Company	IRP- Demand Response (DR)
16	U-20287	Consumers Energy Company	Gas TCJA Credit B
17	U-20286	Consumers Energy Company	Electric TCJA Credit B
18	U-20309	Consumers Energy Company	TCJA Calculation C
19	U-20322	Consumers Energy Company	Gas Cost of Service Study
20	U-20471	DTE Electric Company	IRP - DR
21	U-20479	SEMCO Energy Gas Company	ASP Revenue
22	U-20561	DTE Electric Company	Electric Rate Design
23	U-20642	DTE Gas Company	Gas DR

QUALIFICATIONS OF DAVID W. ISAKSON
CASE NUMBER U-21534
PART I

1	U-20650	Consumers Energy Company	Gas DR, Tariffs
2	U-20940	DTE Gas Company	R&D Expense
3	U-20963	Consumers Energy Company	Electric Rate Design
4	U-21080	Consumers Energy Company	DR Reconciliation
5	U-21148	Consumers Energy Company	Renewable Natural Gas
6	U-21224	Consumers Energy Company	Electric Rate Design
7	U-21297	DTE Electric Company	Electric Rate Design
8	U-21389	Consumers Energy Company	Electric Rate Design
9	U-21540	Michigan Gas Utilities Corporation	Gas Cost of Service Study

DIRECT TESTIMONY OF DAVID W. ISAKSON
CASE NUMBER U-21534
PART II

1 Q. What is the purpose of your testimony?

2 A. The purpose of my testimony is to present MPSC Staff's (Staff's) present
3 revenue, electric rate design, and tariff recommendations.

4 Q. Are you sponsoring any exhibits?

5 A. Yes, I am sponsoring the following exhibits:

6 Staff Exhibit S-6, Schedule F2, "Staff Summary of Present and Proposed
7 Revenue."

8 Staff Exhibit S-6, Schedule F3, "Staff Present and Proposed Revenue by Rate
9 Schedule."

10 Staff Exhibit S-6, Schedule F4, "Staff Comparison of Monthly Bills."

11 Staff Exhibit S-6, Schedule F5, "Staff Calculation of Voltage Level Distribution
12 Charges."

13 Staff Exhibit S-6, Schedule F8, "Staff Proposed Tariff Sheet Corrections."

14

15 **Present Revenue**

16 Q. What is Staff's recommended present revenue?

17 A. Due to Staff's adjustments to the Company's residential income assistance and
18 senior citizen credit customer counts, sponsored by Staff witness Elaina
19 Braunschweig, Staff recommends a present revenue of \$5,564,537,000 versus the
20 Company's \$5,561,302,000. A higher present revenue has the effect of lowering
21 the revenue deficiency. Detail of Staff's present and proposed revenues can be
22 found on Staff Exhibit S-6, Schedule F2.

23

DIRECT TESTIMONY OF DAVID W. ISAKSON
CASE NUMBER U-21534
PART II

Electric Rate Design

Q. Please describe the general procedure that Staff uses to perform its rate design.

A. Following the review of the Company's testimony and exhibits, the general procedure for performing rate design begins in evaluating the Company's rate design model in Microsoft Excel. This evaluation involves verifying each of the several hundred present rates hardcoded into the model, as well as all other hardcoded input data such as rate of return on rate base. Staff compares present rates in the rate design model to those in the Company's Commission-approved rate book, while other data is audited to its original source such as Company exhibits or witness testimony. Next, Staff evaluates the billing determinants for each rate schedule to determine their reasonableness. Staff then analyzes the functions or formulae used in the model to ensure they are calculating rates and other information correctly or as expected and intended. If and when Staff discovers errors or discrepancies, Staff submits audit requests to the Company for further explanation. Once Staff is confident in the state of Company's model, and after other Staff experts have compiled adjustments to the revenue requirement, sales forecast, and the cost of service study (COSS), Staff incorporates the outputs from those models into the rate design model as the last step in the overall rate calculation process. Finally, Staff adjusts the rate design model to incorporate any new rate design proposals recommended by Staff followed by a final check of all functions, hardcoded data, and model outputs before filing to ensure the rates Staff proposes will generate Staff's recommended revenue requirement.

DIRECT TESTIMONY OF DAVID W. ISAKSON
CASE NUMBER U-21534
PART II

Rate Impact

Q. What is the total impact of all of Staff's recommendations in this case on rates?

A. Incorporating all of Staff's recommendations, from individual account adjustments to its recommended rate of return, results in an overall increase of 4.3% over present rates. Further detail on the exact impacts of Staff's recommended rates on customer bills can be found in Staff Exhibit S-6, Schedule F4.

Q. What is the impact of Staff's revenue requirement, COSS, and rate design on residential rates?

A. Staff's rate design results in an overall increase of 5.2% over present residential rates.

Q. What is the impact of Staff's revenue requirement, COSS, and rate design on general service secondary rates?

A. Staff's rate design results in an overall increase of 5.1% to general service secondary rates.

Q. What is the impact of Staff's revenue requirement, COSS, and rate design on primary rates?

A. Staff's rate design results in an overall increase of 1.3% to primary rates.

Q. What is the impact of Staff's revenue requirement, COSS, and rate design on streetlighting rates?

A. Staff's rate design results in an overall increase of 3.5% to streetlighting rates.

DIRECT TESTIMONY OF DAVID W. ISAKSON
CASE NUMBER U-21534
PART II

1 **Tariffs**

2 Q. What are Staff's recommendations regarding corrections to the Company's
3 proposed tariffs?

4 A. Staff discovered several errors in the Company's proposed and presently-
5 approved tariffs. These errors range from errant punctuation to spelling mistakes
6 and are listed in Staff Exhibit S-6, Schedule F8. Maintaining legible, error-free
7 tariffs is paramount to give customers confidence that the rates they are charged
8 and the rules under which they take service have been thoroughly vetted and
9 considered. Staff recommends that the Commission approve final tariffs with
10 corrections shown in Staff Exhibit S-6, F8.

11 Q. Does Staff support the Company's proposal to eliminate the tariff sheets for Rates
12 D1-A and D1-B?

13 A. Yes. Company witness Aaron Willis recommends removing the tariffs for
14 residential Rates D1-A and D1-B because those rates are now obsolete.¹ Rates
15 D1-A and D1-B were previously used to study time-of-use enrollment and pricing
16 for the Company's Advanced Customer Pricing Pilot (ACPP) in the lead up to
17 transitioning all residential customers to time-differentiated rates. The ACPP has
18 been completed; and, thus, those rates are no longer needed. The removal of their
19 associated tariffs will shorten and uncomplicate the Company's rate book.

20 Q. What does Staff recommend regarding the Company's proposal to retire
21 residential Rate D1.6?

¹ Direct testimony of Company witness Willis, p 46, lines 5-8.

DIRECT TESTIMONY OF DAVID W. ISAKSON
CASE NUMBER U-21534
PART II

1 A. Staff recommends that the Commission approve the Company's proposal to retire
2 Rate D1.6 and make the Low Income Assistance (LIA) credit available to all
3 residential rates. This proposal would allow customers receiving the LIA to take
4 service on a variety of rates, including Time of Use (TOU) rates, which may
5 better suit them. This is the same treatment that the Commission has authorized
6 for Consumers Energy Company's residential Low-Income Assistance Credit,
7 which is akin to the Company's LIA credit in scale, availability, and eligibility.
8 The Company provided an analysis, as requested by the Commission, which
9 showed that thousands of customers would be better off on the default residential
10 Rate D1.11 than on the current inverted-block rate design of D1.6.² If the
11 Commission does not approve the Company's proposal to make the LIA credit
12 available on all residential rate schedules, then those customers would not be able
13 to take advantage of lower-cost off-peak rates.

Recommendations Summary

15 Q. Please summarize your recommendations.

16 A. Staff's recommendations are as follows:

- 17 1. Staff recommends the Commission approve Staff's electric rate design.
- 18 2. Staff recommends the Commission approve its tariff error corrections.
- 19 3. Staff recommends the Commission approve the Company's proposal to
20 remove tariff sheets for residential Rates D1-A and D1-B.

² Direct testimony of Company witness Aaron Willis, p 24, Table 1.

DIRECT TESTIMONY OF DAVID W. ISAKSON
CASE NUMBER U-21534
PART II

1 4. Staff recommends the Commission approve the Company's proposal to
2 open availability of the LIA credit to all residential base rates, transition D1.6
3 customers to D1.11, and eliminate Rate D1.6 by the end of the test year.

4 Q. Does this conclude your direct testimony?

5 A. Yes, it does.

S T A T E O F M I C H I G A N
B E F O R E T H E M I C H I G A N P U B L I C S E R V I C E C O M M I S S I O N

* * * *

In the matter of the application of	)	
DTE ELECTRIC COMPANY	)	
for authority to increase its rates, amend	)	Case No. U-21534
its rate schedules and rules governing the	)	
distribution and supply of electric energy, and	)	
<u>for miscellaneous accounting authority.</u>	)	

QUALIFICATIONS AND DIRECT TESTIMONY OF
THERESA MCMILLAN-SEPKOSKI
MICHIGAN PUBLIC SERVICE COMMISSION

July 26, 2024

QUALIFICATIONS OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART I

1 Q. Please state your name and business address.

2 A. My name is Theresa L. McMillan-Sepkoski. My business address is 7109 West
3 Saginaw Hwy, Lansing MI, 48917.

4 Q. By whom are you employed and in what capacity?

5 A. I am employed by the Michigan Public Service Commission (MPSC or
6 Commission) as an Audit Specialist in the Revenue Requirements Section of the
7 Regulated Energy Division.

8 Q. What is your educational background?

9 A. I graduated in 1981 from Mott Community College with an A.A.S. degree in
10 Accounting with a minor in Business Management. In June 2006, I graduated
11 from Baker College with highest honors and a B.B.A. degree with emphasis in
12 Accounting. Since becoming employed here at the Commission, I have
13 participated in numerous MPSC training sessions and attended the National
14 Association of Regulatory Utility Commissioners (NARUC) Advanced
15 Regulatory Studies Program.

16 Q. Please describe your professional background.

17 A. Prior to my employment at the MPSC, I worked in accounting in the public and
18 private sector for sixteen years after receiving my associate degree. I began my
19 employment at the Shiawassee County Health Department as an Accounts
20 Processor. From there my experience in accounting came from working for
21 Federal Forge Inc., also known as Bharat Forge Ltd. from an entry level position
22 in Accounts Payable and promoted to Controller. After that I worked for CSI Inc.
23 as an Assistant Controller/Human Resource Administrator. In December 2006,

QUALIFICATIONS OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART I

1 having completed my bachelor's degree, I began my employment with the
2 Michigan Public Service Commission and have continued through the present.

3 Q. Briefly discuss your experience with the MPSC.

4 A. I have served as the lead auditor, case coordinator, and performed audit work in
5 many types of cases for the MPSC. The types of cases have been gas and electric
6 rate cases, Power Supply Cost Recovery (PSCR) and Gas Cost Recovery (GCR)
7 reconciliation cases, Cooperative Times Interest Earned Ratio (TIER) review
8 cases, and various tracking mechanism cases. I have also testified before the
9 Commission on previous Revenue Requirement rate cases.

10 Q. Have you previously filed testimony before the MPSC?

11 A. Yes, I have filed testimony in the following cases:

12 U-15190 – Consumers Energy Company Gas Rate Case

13 U-15244 – Detroit Edison Company Electric Rate Case

14 U-15245 – Consumers Energy Company Electric Rate Case

15 U-15506 – Consumers Energy Company Gas Rate Case

16 U-16034-R – Wisconsin Electric Power Co. 2010 PSCR Reconciliation

17 U-16149-R – Consumers Energy Co. 4/10 – 3/11 GCR Reconciliation

18 U-16424-R – Wisconsin Electric Power Co. 2011 PSCR Reconciliation

19 U-17095-R – Consumers Energy Co. 2013 PSCR Reconciliation

20 U-17130-R – Michigan Gas Utilities Corporation 4/13 - 3/14 GCR Reconciliation

21 U-17133-R – Consumers Energy Co. 4/13 – 3/14 GCR Reconciliation

22 U-17317-R – Consumers Energy Co. 2014 PSCR Reconciliation

23 U-17334-R – Consumers Energy Co. 4/14 – 3/15 GCR Reconciliation

QUALIFICATIONS OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART I

1	U-17691-R – DTE Gas 4/15 – 3/16 GCR Reconciliation
2	U-18124 – Consumers Energy Co. Gas Rate Case
3	U-18250 – Consumers Energy Co. Securitization Case
4	U-20134 – Consumers Energy Co. Electric Rate Case
5	U-20162 – DTE Electric Rate Case
6	U-20276 – Upper Peninsula Power Co. Electric Rate Case
7	U-20322 – Consumers Energy Gas Rate Case
8	U-20479 – SEMCo Energy Gas Co. Gas Rate Case
9	U-20561 – DTE Electric Rate Case
10	U-20642 – DTE Gas Rate Case
11	U-20650 – Consumers Energy Gas Rate Case
12	U-20697 – Consumers Energy Electric Rate Case
13	U-20940 – DTE Gas Rate Case
14	U-20963 – Consumers Electric Rate Case
15	U-21148 – Consumers Gas Rate Case
16	U-20836 – DTE Electric Rate Case
17	U-21224 – Consumers Electric Rate Case
18	U-21286 – Upper Peninsula Power Company Electric Rate Case
19	U-21291 – DTE Gas Rate Case
20	U-21297 – DTE Electric Rate Case
21	U-21308 – Consumers Gas Rate Case
22	U-21389 – Consumers Electric Rate Case
23	U-21461 – I&M Electric Rate Case

QUALIFICATIONS OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART I

1	U-21490 – Consumers Gas Rate Case
2	U-21540 – Michigan Gas Utilities Corporation Gas Rate Case
3	U-21555 – Upper Peninsula Power Co. Electric Rate Case

**DIRECT TESTIMONY OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART II**

1 Q. What is the purpose of your testimony?

2 A. The purpose of my testimony is to present the Michigan Public Service
3 Commission Staff's (Staff) adjustments to DTE Electric Company's (the
4 Company or DTE) projected Employee Incentive Compensation Plan (EICP),
5 Restricted Stock, Regulated Marketing O&M expense, and Merchant Fees O&M
6 expense included in Operations and Maintenance (O&M) expense for the test year
7 ending December 25, 2025.

8 Q. Are you sponsoring any exhibits in this proceeding?

9 A. Yes, I am sponsoring the following exhibits:

10 Exhibit Title

11 S-7.0 Co. Response TMS-1.1a Incentive Compensation

12 S-7.1 Incentive Compensation Company Witness Cooper Table 3

13 S-7.2 DTE Energy Co Long-Term Incentive Plan Booklet

14 S-7.3 Co. Response TMS-2.1a Restricted Stock

15 S-7.4 Regulated Marketing O&M Expense Updated with 2023 Actuals

16 S-7.5 Merchant Fees O&M Expense Updated with 2023 Actuals

17 **Employee Incentive Compensation Plan (EICP) Expense**

18 Q. Please describe DTE Electric's EICP.

19 A. DTE's EICP is a component of the Company's variable pay programs to both
20 executive and non-represented employees. There are three programs included in
21 EICP: 1) the Annual Incentive Plan (AIP), which is a short-term program
22 available to senior management level personnel; 2) the Rewarding Employees
23 Plan (REP), which is identical to AIP except that the threshold performance

DIRECT TESTIMONY OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART II

1 percentage is different; and 3) the Long-Term Incentive Plan (LTIP), which
2 provides an incentive payout to certain individuals in the form of DTE Energy
3 common stock. These programs are related to financial and non-financial
4 performance objectives.

5 Q. What is the Company's projected expense for EICP?

6 A. The Company projected \$59,504,000 in Company witness Cooper's testimony,
7 page 62, Table 3, for the projected test-year ending December 31, 2025, with
8 \$39,232,000 related to the achievement of financial performance measures
9 and \$20,271,000 related to non-financial operating objectives (See Staff Exhibit
10 S-7.1).

11 Q. Has the Commission provided a decision on EICP in previous rate cases?

12 A. Yes. Commission decisions to exclude incentive compensation related to
13 financial measures from the revenue requirement in preceding rate cases were
14 founded on two premises. First, the Commission found that incentive
15 compensation plans that were tied to Company earnings and cash flow were
16 financial considerations that largely benefited shareholders and should not be paid
17 for by ratepayers. See MPSC Case No. U-14347, Opinion and Order, December
18 22, 2005, p 35. Second, the Commission has found that long-term incentive
19 compensation is tied closely to company earnings and cashflow that benefits the
20 shareholders more than the ratepayers. See MPSC Case No. U-17735, Order,
21 November 19, 2015, p 78. In MPSC Case No. U-17767, Order, December 11,
22 2015, pgs. 76-77, the Commission found there was insufficient evidence to
23 conclude that the financial measures for short term incentives (AIP and REP)

DIRECT TESTIMONY OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART II

1 showed significant benefit to ratepayers. Most recently in MPSC Case No. U
2 20561, Order, May 8, 2020, pg. 19, the Commission has disallowed any
3 capitalized amounts of incentive compensation that are based upon financial
4 measures to be included in rates. The following are more recent cases in which
5 financially measured incentive compensation has been excluded from the revenue
6 requirement by the Commission:

7 - Case No U-17735, 11/19/2015 Order, (Consumers Energy electric rate case)

8 -Case No. U-18124, 7/31/17 Order, (Consumers Energy gas rate case)

9 -Case No. U-18322, 3/29/18 Order, (Consumers Energy electric rate case)

10 -Case No. U-18999, 9/13/18 Order (DTE Gas Company gas rate case)

11 -Case No. U-20162, 5/2/19 Order (DTE Electric Company rate case)

12 -Case No. U-20322, 9/26/19 Order (Consumers Energy gas rate case)

13 -Case No. U-20561, 5/8/20 Order (DTE electric rate case)

14 -Case No. U-20697, 12/17/20 Order (Consumers Energy electric rate case)

15 -Case No. U-20940, 12/9/21 Order (DTE gas rate case)

16 -Case No. U-20963, 12/22/21 Order (CE electric rate case)

17 -Case No. U-21297, 12/1/23 Order (DTE Electric rate case)

18 Q. What is Staff's understanding of the Commission's policy for EICP expenses?

19 A. The Commission has excluded capitalized and O&M incentive compensation
20 expense that is based upon financial performance measures from the revenue
21 requirement on the basis that shareholders specifically benefit from financial
22 performance measures such as return on equity and cash flow, whereas ratepayers

DIRECT TESTIMONY OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART II

specifically benefit from non-financial measures related to reliability and customer satisfaction.

Q. What is Staff's recommendation regarding the Company's request for inclusion of EICP expense in this case?

A. Staff recommends the Commission find the inclusion of the EICP for non-financial performance measures in the amount of \$20,271,000 (Staff Exhibit S-7.0) is reasonable. Staff recommends that the \$39,232,000 of EICP related to the achievement of financial performance measures should be disallowed.

Restricted Stock

Q. Please describe the Restricted Stock included in the revenue requirement.

A. The Company states in Staff Exhibit S-7.2 that LTIP is awarded with Restricted Stock or performance shares. Both awards are based on DTE Energy Company stock prices, which is a financial measure used by the Company to determine the amount of the award. Restricted Stock is considered as a reward to employees for assisting the Company in reaching its financial performance goals. See Staff Exhibit S-7.2, pages 2-3 of 8. Per Company response Staff Exhibit S-7.3, the amount of compensation in the form of Restricted Stock included in the revenue requirement is \$8,960,000. The Company indicated this amount was included in the projected test period.

The Commission has repeatedly disallowed any portion of compensation related to financial measures to be included in the revenue requirement. In MPSC Case Nos. U-20561, Order, May 8, 2020, pgs. 202-203, and U-20836, Order,

DIRECT TESTIMONY OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART II

1 November 18, 2022, pgs. 302-303, U-21297, Order, December 1, 2023, pgs. 238-
2 239, the Commission agreed with the recommendation of the ALJ that Staff
3 correctly analyzed the Restricted Stock as an expense that should be excluded.

4 Q. Please explain Staff's recommended disallowance for Restricted Stock.

5 A. Since the Commission has repeatedly disallowed any portion of compensation
6 related to financial measures to be included in the revenue requirement, Staff is
7 recommending a disallowance of Restricted Stock in the amount of \$8,960,000.

8 **Regulated Marketing O&M Expense**

9 Q. Please describe the Regulated Marketing O&M expense.

10 A. Regulated marketing includes major account services to the C&I customer
11 classes, electric marketing education campaigns, economic development of local
12 economic growth, the Demand Response portfolio, the Charging Forward O&M
13 expenses, and the Charging Forward regulatory assets amortization.

14 Q. Has the Company included regulated marketing O&M expense in the revenue
15 requirement of the current case?

16 A. Yes. The Company has included \$32,154,000 for regulated marketing O&M
17 expense in the revenue requirement per Company Exhibit A-13, Schedule C5.9.

18 Q. Please describe Staff's recommendations in the current case.

19 A. The Company projected regulated marketing O&M expense based on 2022 actual
20 amounts, which projected a test year expense of \$32,154,000. (Exhibit A-13,
21 Schedule C5.9), line 15. Staff's adjustment used the updated 2023 actuals and
22 Replaced the Company's inflation rates with Staff's inflation rates of 2.9% and
23 2.9% for 2024 and 2025, respectively. By updating the base year and adjusting

DIRECT TESTIMONY OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART II

1 for Staff inflation rates, Staff's adjustment reduces the corporate services O&M
2 expense by \$292,000, for a total regulated marketing O&M expense to include in
3 the revenue requirement of \$31,862,000. (Exhibit S-7.4). Staff recommends the
4 ALJ and the Commission disallow \$292,000 for regulated marketing O&M
5 expense.

6 **Merchant Fees O&M Expense**

7 Q. Please explain Merchant Fees.

8 A. When customers opt to pay their utility bill with a credit/debit card, credit card
9 companies and banks charge the Company fees to process these transactions, and
10 those fees were passed on to individual customers. DTE began taking over the
11 cost to these individual customers paying with credit/debit card by socializing
12 said costs. DTE believes that this service it refers to as Merchant Fees O&M
13 expense enhances their customers' experience and satisfaction.

14 Q. When did DTE request to have these fees socialized in a rate case?

15 A. DTE requested to have these fees eliminated for the individual customer paying
16 with a credit/debit card and socialize the costs among the rate classes approved
17 for this use in MPSC Case No. U-18255. In MPSC Case No. U-20162, the
18 Commission approved DTE prohibiting larger industrial customers and secondary
19 choice customers from using credit/debit cards in order to reduce the cost of
20 socializing the merchant fee.

21 Q. What is the Company requesting in this present case concerning Merchant Fees?

22 A. The Company is requesting \$12,296,000 for the projected test period, Company
23 Exhibit A-13, Schedule C5.7.1.

DIRECT TESTIMONY OF THERESA MCMILLAN-SEPKOSKI
CASE NUMBER U-21534
PART II

1 Q. What is Staff proposing in this case?

2 A. The Company projected merchant fees O&M expense based on 2022 actual
3 amounts, which projected a test year expense of \$12,296,000. (Exhibit A-13,
4 Schedule C5.7.1, line 4). Staff 's adjustment used the updated 2023 actuals and
5 projected forward to the test year for an amount of \$11,060,000. By updating the
6 base year actuals, Staff's adjustment reduces merchant fees O&M expense by
7 \$1,236,000. Staff recommends the ALJ and the Commission disallow \$1,236,000
8 for merchant fees O&M expense.

9 Q. Please summarize Staff's recommendations in the current case.

10 A. Staff recommends the ALJ and the Commission approve \$20,271,000 of non-
11 financial measures for EICP and disallow \$39,232,000 related to financial
12 measures. For Restricted Stock, Staff recommends a disallowance of the
13 \$8,960,000 included in the revenue requirement for the test period. Regulated
14 marketing O&M expense should be reduced by \$292,000. Merchant fees O&M
15 expense should be reduced by \$1,236,000.

16 Q. Does this conclude your testimony?

17 A. Yes, it does.

S T A T E O F M I C H I G A N
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

* * * *

In the matter of the application of	)	
DTE ELECTRIC COMPANY	)	
for authority to increase its rates, amend	)	Case No. U-21534
its rate schedules and rules governing the	)	
distribution and supply of electric energy, and	)	
for miscellaneous accounting authority.	)	
	)	

QUALIFICATIONS AND DIRECT TESTIMONY OF
ROBERT F. NICHOLS II, CPA
MICHIGAN PUBLIC SERVICE COMMISSION

July 26, 2024

QUALIFICATIONS OF ROBERT F. NICHOLS II, CPA
CASE NUMBER U-21534
PART I

1 Q. Please state your name and business address.

2 A. My name is Robert F. Nichols II, and my business address is 7109 West Saginaw
3 Highway, Lansing, MI 48917.

4 Q. By whom are you employed and in what capacity?

5 A. I am employed by the Michigan Public Service Commission (Commission or
6 MPSC) as the Manager of the Revenue Requirements Section of the Regulated
7 Energy Division.

8 Q. How long have you been employed by the MPSC and what are your duties?

9 A. I have been employed by the MPSC since November of 2011. As Manager of the
10 Revenue Requirements Section, I am primarily responsible for the planning and
11 direction of electric and gas rate case audits and presentations, as well as cases
12 involving accounting standards and requests for accounting authority. From 2011
13 through March 2016, as an Auditor within the Revenue Requirements Section, my
14 responsibilities included auditing, analyzing, and making recommendations
15 regarding utility revenues, expenses, and rate base.

16 Q. Please describe your educational background.

17 A. I graduated from Davenport University, with highest honors, in 2009 with a
18 Bachelor of Business Administration degree in Accounting Information
19 Management. I attended a regulation and ratemaking conference hosted by the
20 Michigan State University Institute of Public Utilities (MSU IPU) in May of
21 2012. In August of 2012, I attended the National Association of Regulatory
22 Utility Commissioners (NARUC) annual two-week Regulatory Studies Program
23 held at Michigan State University. Each August from 2013 through 2016 and in

QUALIFICATIONS OF ROBERT F. NICHOLS II, CPA
CASE NUMBER U-21534
PART I

1 2019, I attended the Annual Regulatory Studies Program hosted by MSU IPU. I
2 also attended a one-week Advanced Regulatory Studies Program in fall of 2013,
3 2014, and 2016, hosted by MSU IPU.

4 Q. Please describe your professional background.

5 A. Prior to coming to the MPSC, from 2000 to 2011, I was employed by Genesee
6 Cut Stone & Marble Company. My duties there included sales, drafting, and
7 estimating.

8 Q. Do you have any professional licenses?

9 A. Yes. I am a Certified Public Accountant, licensed by the State of Michigan.

10 Q. Have you prepared testimony or assisted in any other proceedings?

11 A. I have assisted or filed testimony in the following cases:

<u>Case No.</u>	<u>Company</u>	<u>Subject/Type</u>
U-16855	Consumers Energy Co. Gas	Rate Case
U-16969	SEMCO Energy Gas Company	Merger and Acquisition
U-16794	Consumers Energy Co. Electric	Rate Case
U-16999	Michigan Consolidated Gas Co.	Rate Case
U-16855	Consumers Energy Co. Gas	Self-Implementation Refund
U-17087	Consumers Energy Co. Electric	Rate Case
U-17197	Consumers Energy Co. Gas	Rate Case
U-17273	Michigan Gas Utilities Corp.	Rate Case
U-17274	Upper Peninsula Power Co.	Rate Case
U-17440	Consumers Energy Co. Electric	Self-Implementation Refund
U-17488	Northern States Power Co. Gas	Rate Case
U-16999	DTE Gas IRM	Reconciliation
U-17620	Consumers Energy Co.	OPEB Trust Funding
U-17643	Consumers Energy Co. Gas	Rate Case
U-17669	WPSC Electric	Rate Case
U-17735	Consumers Energy Co. Electric	Rate Case
U-17882	Consumers Energy Co. Gas	Rate Case
U-17999	DTE Gas Company	Rate Case
U-18014	DTE Electric Company	Rate Case
U-17990	Consumers Energy Co. Electric	Rate Case
U-18124	Consumers Energy Co. Gas	Rate Case

QUALIFICATIONS OF ROBERT F. NICHOLS II, CPA
CASE NUMBER U-21534
PART I

1	U-18322	Consumers Energy Co. Electric	Rate Case
2	U-18255	DTE Electric Company	Rate Case
3	U-18370	Indiana Michigan Power Co.	Rate Case
4	U-18419	DTE Electric Company	Certificate of Necessity
5	U-18424	Consumers Energy Co. Gas	Rate Case
6	U-18999	DTE Gas Company	Rate Case
7	U-20111	Upper Peninsula Power Co.	TCJA Credit A Case
8	U-20268	Alpena Power Company	TCJA Credit B Case
9	U-20134	Consumers Energy Co. Electric	Rate Case
10	U-20287	Consumers Energy Co. Gas	TCJA Credit B Case
11	U-20165	Consumers Energy Co. Electric	Integrated Resource Plan
12	U-20162	DTE Electric Company	Rate Case
13	U-20276	Upper Peninsula Power Co.	Rate Case
14	U-20322	Consumers Energy Co. Gas	Rate Case
15	U-20350	Upper Peninsula Power Co.	Integrated Resource Plan
16	U-20479	SEMCO Energy Gas Co.	Rate Case
17	U-20359	Indiana Michigan Power Co.	Rate Case
18	U-20561	DTE Electric Company	Rate Case
19	U-20642	DTE Gas Company	Rate Case
20	U-20650	Consumers Energy Co. Gas	Rate Case
21	U-20697	Consumers Energy Co. Electric	Rate Case
22	U-20713	DTE Electric Company	Voluntary Green Pricing
23	U-21015	DTE Electric Company	Securitization Case
24	U-20940	DTE Gas Company	Rate Case
25	U-20963	Consumers Energy Co. Electric	Rate Case
26	U-21090	Consumers Energy Co. Electric	Integrated Resource Plan
27	U-21148	Consumers Energy Co. Gas	Rate Case
28	U-20836	DTE Electric Company	Rate Case
29	U-20993	Saginaw Bay Pipeline Co.	Rates for Transportation
30	U-21224	Consumers Energy Co. Electric	Rate Case
31	U-21286	Upper Peninsula Power Co.	Rate Case
32	U-21193	DTE Electric Company	Integrated Resource Plan
33	U-20827	DTE Electric Company	PSCR Reconciliation
34	U-21308	Consumers Energy Co. Gas	Rate Case
35	U-21297	DTE Electric Company	Rate Case
36	U-21389	Consumers Energy Co. Electric	Rate Case
37	U-21461	Indiana Michigan Power Co.	Rate Case
38	U-21525	DTM Michigan Lateral Co.	Rate Request
39	U-21490	Consumers Energy Co. Gas	Rate Case
40	U-21291	DTE Gas Company	Rate Case
41	U-21540	Michigan Gas Utilities Corp.	Rate Case
42	U-21555	Upper Peninsula Power Co.	Rate Case

DIRECT TESTIMONY OF ROBERT F. NICHOLS II, CPA
CASE NUMBER U-21534
PART II

1 Q. What is the purpose of your testimony?

2 A. The purpose of my testimony is to present the MPSC Staff's (Staff) projected
3 revenue deficiency, projected operating income, and projected Monroe regulatory
4 asset – return on for DTE Electric Company (DTE Electric or the Company) in
5 this case.

6 Q. Are you sponsoring any exhibits?

7 A. Yes. I am sponsoring the following exhibits:

8 Exhibits:

9 S-1 Schedule A-1: Projected Revenue Deficiency (Sufficiency)

10 S-1 Schedule A-1.2: Monroe Regulatory Asset – Return On

11 S-3 Schedule C-1: Projected Net Operating Income

12 S-3 Schedule C-1.1: Development of Projected Net Operating
13 Income

14 S-3 Schedule C-14: Projected Tax Effect of Interest Allowed in
15 Ratemaking Formula

16 S-3 Schedule C-15: Projected Tax Effect of Interest Synchronization
17 Adjustment

18 **REVENUE DEFICIENCY:**

19 Q. Referring to Exhibit S-1, Schedule A-1, what is Staff's projected revenue
20 deficiency?

21 A. Staff projects a revenue deficiency of \$239,833,000, a revenue requirement
22 decrease of \$216,600,000 from the Company's originally filed revenue deficiency
23 of \$456,434,000. (Exhibit A-11, Schedule A1; Exhibit S-1, Schedule A-1, Line

DIRECT TESTIMONY OF ROBERT F. NICHOLS II, CPA
CASE NUMBER U-21534
PART II

11.) The main factors driving Staff's overall adjustment are Staff's lower rate base, its higher net operating income, and its lower required rate of return. In addition to my testimony, other Staff witnesses provide testimony and supporting exhibits regarding the adjustments to the Company's revenue deficiency.

MONROE REGULATORY ASSET – RETURN ON:

Q. Referring to Exhibit S-1, Schedule A1.2, what is Staff's projected Monroe regulatory asset return on?

A. Staff's projected Monroe regulatory asset return on is \$136,947,000, which is \$572,000 less than the Company's originally filed amount of \$137,518,000 found on Exhibit A-11, Schedule A1.2, Line 4.

Q. Why is Staff's Monroe regulatory asset – return on \$572,000 less than the company's projection?

A. Staff's Monroe regulatory asset – return on is \$572,000 less than the Company's projection because Staff applied its 6.54% projected pre-tax cost of capital in lieu of the Company's projected pre-tax cost of capital of 6.57% for the Monroe regulatory asset – return on. Both Staff and DTE's pretax weighted average cost of capital (WACC) applied to the Monroe regulatory asset are recalculated from the overall cost of capital using 9% ROE in accordance with the MPSC's U-21193 order dated July 26, 2023. (Exhibit A-14, Schedule D1; Exhibit S-4, Schedule D1.) Staff recommends that the Monroe regulatory asset – return on should be recalculated based upon the cost of capital decisions made by the ALJ and the Commission.

NET OPERATING INCOME:

DIRECT TESTIMONY OF ROBERT F. NICHOLS II, CPA
CASE NUMBER U-21534
PART II

1 Q. Referring to Exhibit S-3, Schedule C-1, what is Staff's projected net operating
2 income?

3 A. Staff's projected net operating income is \$1,174,574,000, an increase of
4 \$84,474,000 from the Company's originally filed net operating income of
5 \$1,087,100,000 found on Exhibit A-13, Schedule C1, Line 17. Details of Staff's
6 adjustments to net operating income, including the Staff witness sponsoring and
7 explaining each adjustment, can be found on Exhibit S-3, Schedule C-1.1.

8 **INTERST SYNCHRONIZATION:**

9 Q. Please describe Exhibit S-3, Schedule C-14.

10 A. Exhibit S-3, Schedule C-14, shows the calculation of the projected tax effect of
11 interest allowed in ratemaking formula for the projected test year and the
12 corresponding change in income tax.

13 Q. Please describe Exhibit S-3, Schedule C-15.

14 A. Exhibit S-3, Schedule C-15, shows the calculation of the projected tax effect of
15 interest synchronization adjustment for the projected test year.

16 **SUMMARY:**

17 Q. Please summarize Staff's recommendations.

18 A. Staff recommends a projected total company revenue deficiency of \$239,833,000
19 and a projected total company net operating income of \$1,174,574,000.
20 Additionally, Staff recommends a Monroe regulatory asset – return on of
21 \$136,947,000 but Staff recommends that the amount should be recalculated based
22 upon the cost of capital decisions made by the ALJ and the Commission.

23 Q. Does this conclude your testimony?

DIRECT TESTIMONY OF ROBERT F. NICHOLS II, CPA
CASE NUMBER U-21534
PART II

1 || A. Yes.

* * * *

Case No. U-21534

July 26, 2024

QUALIFICATIONS OF MARK J. PUNG
CASE NUMBER U-21534
PART I

1 Q. Please state your name and business address.

2 A. My name is Mark J. Pung. My business address is 7109 West Saginaw Highway,
3 Lansing, Michigan 48917.

4 Q. By whom are you employed and in what capacity?

5 A. I am employed by the Michigan Public Service Commission (MPSC or
6 Commission) as a Departmental Specialist in the Rates and Tariff Section of the
7 Regulated Energy Division. I serve as the section's Electric Cost of Service
8 Specialist.

9 Q. Please briefly describe your educational background.

10 A. I graduated from Michigan State University in 2004 with a Bachelor of Arts
11 degree in Supply Chain Management.

12 Q. Have you completed any other courses?

13 A. Yes, I have completed two graduate courses at Central Michigan University's
14 Lansing campus, Quantitative Applications in Administrative Decision Making
15 and Financial Management. I have also completed the Association of Edison
16 Illuminating Company's Fundamentals of Customer Load Data Analysis course,
17 the National Association of Regulatory Utility Commissioners (NARUC) Annual
18 Regulatory Studies Program held at Michigan State University, and EUCI Electric
19 Cost-of-Service Course - Essential Concepts for a Changing Industry.

20 Q. What are your current responsibilities at the MPSC?

21 A. As the Electric Cost of Service Specialist, I am responsible for developing Staff
22 electric cost of service studies, interpreting and applying laws related to electric
23 cost-of-service, and any other electric cost-of-service-related issues in cases

QUALIFICATIONS OF MARK J. PUNG
CASE NUMBER U-21534
PART I

1 before the Commission under the supervision of the Rates and Tariff Section
2 Manager.

3 Q. Have you previously presented testimony or participated in utility cases before the
4 MPSC?

5 A. Yes. I have participated in the following cases:

<u>Case No.</u>	<u>Utility</u>	<u>Description</u>
U-14270-R	Presque Isle, Cherryland, Tri-County, and Great Lakes	PSCR Reconciliation
U-14637	Presque Isle Electric and Gas Cooperative	Rate Design
U-14710-R	Presque Isle, Cherryland, Tri-County, and Great Lakes	PSCR Reconciliation & TIER Audit
U-14713-R	Ontonagon County REA	Rate Design
U-14745	Upper Peninsula Power Company	Rate Design
U-14790	Great Lakes Energy Cooperative	Rate Design
U-14893	SEMCO Energy Gas Company	Rate Design
U-15071	Wisconsin Electric Power Company	Rate Design
U-15114	Wisconsin Public Service Corp.	Ex parte of new rate
U-15244	Detroit Edison Company	Rate Design
U-15245	Consumers Energy Company	Rate Design
U-15487	Alpena Power Company	Ex parte of new rate
U-15500	Wisconsin Electric Power Company	Rate Design
U-15645	Consumers Energy Company	Rate Design
U-15981	Wisconsin Electric Power Company	Rate Design

QUALIFICATIONS OF MARK J. PUNG
CASE NUMBER U-21534
PART I

1	<u>Case No.</u>	<u>Utility</u>	<u>Description</u>
2	U-15988	Upper Peninsula Power Company	Rate Design
3	U-16180	Indiana Michigan Power Company	Rate Design
4	U-16472	Detroit Edison Company	Rate Design
5	U-16794	Consumers Energy Company	Rate Design
6	U-16860	Consumers Energy Company	Revenue Decoupling
7	U-16877	Michigan Consolidated Gas Company	Revenue Decoupling
8	U-17043	Consumers Energy Company	VHWF
9	U-17087	Consumers Energy Company	Rate Design
10	U-17221	Michigan Gas Utilities Corporation	Revenue Decoupling
11	U-17222	Michigan Gas Utilities Corporation	Un-collectables
12	U-17479	Tilden Mining Company	RAS-1 Tariff
13	U-17530	DTE Michigan Gathering Company	Ex parte of new rate
14	U-17547	Michigan Gas Utilities Corporation	Revenue Decoupling
15	U-17686	Michigan Gas Utilities Corporation	Tariff Revisions
16	U-17688	Consumers Energy Company	Act 169 Case
17	U-17735	Consumers Energy Company	Rate Design
18	U-17895	Upper Peninsula Power Company	Rate Design
19	U-17990	Consumers Energy Company	Rate Design
20	U-18255	Detroit Edison Company	Rate Design
21	U-18462	Northern States Power Company	Rate Design
22	U-20101	Alpena Power Company	TCJA Credit A
23	U-20108	Northern States Power Company	TCJA Credit A

QUALIFICATIONS OF MARK J. PUNG
CASE NUMBER U-21534
PART I

1	<u>Case No.</u>	<u>Utility</u>	<u>Description</u>
2	U-20110	Upper Michigan Energy Resource Corp.	TCJA Credit A
3	U-20111	Upper Peninsula Power Company	TCJA Credit A
4	U-20162	Detroit Edison Company	Rate Design
5	U-20359	Indiana Michigan Power Company	Rate Design
6	U-20697	Consumers Energy Company	Rate Design
7	U-21045	Alpena Power Company	Rate Design
8	U-21097	Northern States Power Company	Rate Design
9	U-20836	Detroit Edison Company	Rate Design
10	U-21224	Consumers Energy Company	Cost of Service
11	U-21297	Detroit Edison Company	Cost of Service
12	U-21389	Consumers Energy Company	Cost of Service
13	U-21488	Alpena Power Company	Cost of Service

DIRECT TESTIMONY OF MARK J. PUNG
CASE NUMBER U-21534
PART II

1 Q. What is the purpose of your testimony?

2 A. The purpose of my testimony is to present MPSC Staff's (Staff) class cost-of-
3 service study (COSS), which allocates Staff's recommended test-year revenue
4 requirements to DTE Electric Company's (the Company) customer classes. I will
5 also cover the following: 1) Staff's recommended capacity cost revenue
6 requirement, 2) Staff's recommended customer charges, 3) Staff's Infrastructure
7 Recovery Mechanism (IRM) revenue requirement and allocation.

8 Q. Are you sponsoring any exhibits?

9 A. Yes, I am sponsoring the following exhibits:

<u>Exhibit</u>	<u>Schedule</u>	<u>Description</u>
S-6	F1.1	Staff's version of the Company's Exhibit A-16, Schedule F1.1 (UCOS, Production by Customer Class, TME December 31, 2025). This schedule summarizes the results of the production portion of Staff's COSS.
S-6	F1.2	Staff's version of the Company's Exhibit A-16, Schedule F1.2 (UCOS, Distribution by Voltage Class, TME December 31, 2025). This schedule summarizes the results of the distribution portion of Staff's COSS.
S-6	F1.4	Staff's version of the Company's Exhibit A-16, Schedule F1.4 (Customer Charges by Voltage Class).
S-6	F1.5	Staff's version of the Company's Exhibit A-16, Schedule F1.5 (Capacity Charge Revenue Requirement by Customer Class). Page 5 of Schedule F1.5

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PART II

1			summarizes Staff's variable O&M expenses in the
2			COSS. Page 6 of Schedule F1.5 shows the calculation of
3			Staff's MERC revenue requirement.
4	S-6	P3	Staff's version of the Company's Exhibit A-26,
5			Schedule P3 (Projected 2025 Capacity-Related
6			Generation Cost & Energy Sales Revenue Net of Fuel
7			Cost).
8	S-6	P4	Staff's 2023 Energy Sales Revenue Net of Fuel Cost
9	S-6	X4	Staff's version of the Company's Exhibit A-33,
10			Schedule X4 (Infrastructure Recovery Mechanism –
11			Incremental Revenue Requirement - Distribution
12			Operations).
13	S-6	X5	Staff's version of the Company's Exhibit A-33,
14			Schedule X5 (Infrastructure Recovery Mechanism –
15			Incremental Revenue Requirement - Distribution
16			Operations, Example of \$1.0 MM Under Investment).
17	S-6	X6	Staff's version of the Company's Exhibit A-33,
18			Schedule X6 (Infrastructure Recovery Mechanism -
19			Distribution Operations. Incremental Revenue
20			Requirement by Voltage Class).
21	S-19		Response to Staff Audit Request MJP-1 (U-21260,
22			Exhibit A-22, 2023 Energy Sales Revenue Net of Fuel
23			Cost)

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1 Q. Were these exhibits prepared by you or under your direction?

2 A. Yes, they were.

3 Q. How has Staff modified the Company's test year COSS?

4 A. Where Staff is recommending adjustments, Staff has replaced the Company's
5 inputs with Staff's inputs so that the resulting COSS shows Staff's proposed
6 revenue requirement. In addition, Staff made an additional change to the COSS
7 allocators that I will address in more detail.

8 Q. How are the results of Staff's COSS incorporated into Staff's case?

9 A. Staff witness David Isakson utilized the results of Staff's COSS and has designed
10 rates to collect the appropriate amount of revenue for each customer class.

11

12 Capacity Revenue Requirement

13 Q. Is the Company proposing to use the same capacity cost method as ordered by the
14 Commission in MPSC Case No. U-21297?

15 A. No. The Company has not included a Reconciliation of Net Sales Benefit
16 Difference in its calculation. In Case No. U-21297, this reconciliation was
17 included by Company witness Burgdorf as Exhibit A-26, Schedule P4.

18 Q. Please describe Staff's capacity revenue requirement method.

19 A. Staff used the Commission approved method that includes a Reconciliation of Net
20 Sales Benefit Difference in its calculation of the capacity charge. Section 6w(4) of
21 PA 341 states:

22 The commission shall provide for a true-up mechanism that results in a
23 utility charge or credit for the difference between the projected net
24 revenues described in subsection (3) and the actual net revenues reflected

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1 in the capacity charge. The true-up shall be reflected in the capacity
2 charge in the subsequent year. The methodology used to set the capacity
3 charge shall be the same methodology used in the true-up for the
4 applicable planning year.

5 Staff interprets this section as requiring that a reconciliation be performed and
6 included in the capacity charge calculation each year, regardless of whether a
7 charge was administered in that year or not. The Company provided a calculation
8 of this reconciliation as Exhibit A-22 in its currently pending PSCR reconciliation
9 case No. U-21260. The Company also supplied Exhibit A-22 in response to Staff
10 Audit Request MJP-1 and Staff has included it in this case as Staff Exhibit S-19.
11 Staff has incorporated the Company's calculation into its capacity charge revenue
12 requirement calculation.

13 Q. What are the results of adding the Reconciliation of Net Sales Benefit Difference
14 to Staff's capacity revenue requirement?

15 A. In PSCR reconciliation case No. U-21260, Company Exhibit A-22 results in a
16 2023 reconciliation amount of approximately \$168.1 million. When you apply
17 this amount to the Projected 2025 Energy Sales Revenue Net of Fuel Costs, it
18 reduces that amount from the Company's projection of \$983.3 million to
19 approximately \$815.3 million. The effect of this is that it reduces the amount to be
20 subtracted from the capacity revenue requirement, thus increasing it by 168.1
21 million.

22 Q. What is Staff's capacity revenue requirement compared to the Company's?

23 A. Staff's capacity revenue requirement is \$1,035.6 million. The Company's
24 capacity revenue requirement is \$973.7 million. Staff's revenue requirement is

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1 higher than the Company's due to including a reconciliation of net sales benefit
2 difference as required by the statute. Staff's lower revenue requirement combined
3 with including a reconciliation results in a difference of \$61.9 million.

4 Q. Does Staff agree with the Company that MISO Schedule 17 administrative costs,
5 chemical costs and emission costs should be included as fuel costs under Section
6 6w(3)(b) of Act 341?

7 A. No. These costs are not fuel costs simply because they occur with the production
8 of energy from the Company's generation assets. They are also not fuel costs
9 because they are directly attributable to "injections" of energy into MISO and
10 must be incurred to generate sales. Section 6w(3)(b) of PA 341 requires that
11 "projected fuel costs" be subtracted from projected energy sales revenue, not
12 "fuel-related costs".

13

14 Customer Charges

15 Q. Is the Company proposing to use the same customer charge method ordered by
16 the Commission in MPSC Case No. U-21297?

17 A. Yes. The Company's customer charge calculation as shown in Exhibit A-16,
18 Schedule F1.4, is consistent with Staff's methodology ordered by the Commission
19 in U-21297.

20 Q. Is the Company proposing any changes to the residential customer charge in this
21 case?

22 A. No. The Company is not proposing any changes.

23 Q. Is Staff proposing any changes to the residential customer charge?

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PART II

1 A. No. Staff's cost-of-service study results in a residential customer charge of \$8.86
2 per customer per month. The current residential customer charge is \$8.50 per
3 month. Based on Staff's results using the approved customer charge method, no
4 changes are necessary to the residential customer charge.

5 Q. Is the Company proposing any changes to the customer charge for any other
6 customer classes?

7 A. No, it is not.
8

9 Infrastructure Recovery Mechanism

10 Q. What is Staff's recommendation for the distribution operations Infrastructure
11 Recovery Mechanism (IRM)?

12 A. Staff recommends the IRM revenue requirement and surcharge calculation should
13 be updated for Staff's proposed rate of return and any other decisions affecting it
14 in the Commission's final order.

15 Q. Does Staff take issue with the Company's allocation of the distribution related
16 Infrastructure Recovery Mechanism (IRM) revenue requirement?

17 A. No. The Company has proposed to allocate the distribution related IRM revenue
18 requirement based upon allocation schedule 521T, which is equal to each voltage
19 class's share of distribution related plant excluding the transmission class. This
20 allocation method complies with the Commission's December 1, 2023 Order in
21 Case No. U-21297 where the Commission directed the Company to remove any
22 allocation of IRM costs from transmission level customers. (MPSC Case No. U-
23 21297. December 1st, 2023 Order. p.290.)

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Purchased Power Capacity Cost Allocation

Q. How has the Company allocated purchased power capacity costs in this case?

A. The Company has allocated purchased power capacity costs using allocator 251, which is based upon 4 CP (coincident-peak), 100% demand but excluding the R10 rate class. This allocator is developed from allocator 200B which is a 4 CP, 100% demand allocator.

Q. Does Staff agree with this allocation method for purchased power capacity costs?

A. No. Staff does not agree with this allocation method. Staff views production assets, including those that provide purchased power capacity to the Company, as providing both energy and capacity. There should be some recognition of both energy use and capacity use in the allocation factor for purchased power capacity costs. The Commission has long recognized the dual nature of production assets going back to 1976 in Case No. U-4771 where the Commission recognized a production allocator of 12 CP 75/0/25.

Q. How does Michigan's other large electric provider, Consumers Energy Company allocate purchased power capacity costs?

A. In Consumers Energy's most recent general electric rate case, U-21389, The Commission ordered that Consumers Energy continue to allocate purchased power capacity costs using a 4 CP 75/0/25 allocator.

Q. What allocator does Staff recommend the Company use to allocate purchased power capacity costs in this case?

DIRECT TESTIMONY OF MARK J. PUNG
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PART II

1 A. Staff recommends the Company use allocator 255. This allocator is based upon
2 allocator 200B which is a 4 CP, 100% demand allocator but then is adjusted to
3 include a 75% demand 25% total energy weighting which is consistent with how
4 the Commission has determined that these costs should be allocated.

5
6
7 Summary

8 Q. Please summarize your recommendations in this proceeding.

9 A. Staff's recommendations are as follows:

10 1. Staff recommends the Commission approve its calculation of the capacity
11 revenue requirement, which includes a Reconciliation of Net Sales Benefit
12 Difference as required by Section 6w(4) of PA 341. The Company's capacity
13 revenue requirement is \$973.7 million. Staff's capacity revenue requirement is
14 \$1,035.6 million.

15 2. Staff recommends no changes to the current \$8.50 customer charge. Staff's
16 calculation of the residential customer charge using the approved customer charge
17 method results in a charge of \$8.86 per month.

18 3. Staff recommends the Commission approve Staff's distribution IRM revenue
19 requirement which has been updated with Staff's rate of return. The Company's
20 allocation of the distribution IRM is in compliance with the Commission's Order
21 in U-21297 to remove any allocation to transmission customers.

22 4. Staff recommends that allocator 255 be used to allocate purchased power
23 capacity costs in alignment with the Commission's long-standing practice of
24 recognizing the dual nature of production assets. Allocator 255 is a 4 CP 75/0/25
25 allocator and would align the Company with Michigan's other large electric
26 provider, Consumers Energy Company.

27 Q. Does this conclude your testimony?

28 A. Yes, it does.

* * * *

Case No. U-21534

July 26, 2024

QUALIFICATIONS OF NICHOLAS M. REVERE
CASE NUMBER U-21534
PART I

1 Q. Please state your name and business address.

2 A. My name is Nicholas M. Revere. My business address is 7109 West Saginaw Hwy,
3 Lansing, Michigan 48917.

4 Q. By whom are you employed and in what capacity?

5 A. I am employed by the Michigan Public Service Commission (MPSC or Commission) as
6 the Manager of the Rates and Tariff Section of the Regulated Energy Division.

7 Q. Would you briefly describe your academic background?

8 A. I earned a Bachelor of Arts degree in Political Science and a Bachelor of Arts degree in
9 Economics from Michigan State University in 2006. In August of 2008 and 2009, I
10 completed the annual National Association of Regulatory Utility Commissioners
11 (NARUC) regulatory studies program at Michigan State University, which included
12 courses on ratemaking, rate case auditing, regulatory policy, and other regulatory issues.
13 In September of 2010, I completed the Institute for Public Utilities Advanced Regulatory
14 Studies Program. In October 2012, I completed the Association of Edison Illuminating
15 Companies' Advanced Course in Load Research.

16 Q. What are your current responsibilities at the MPSC?

17 A. As Manager of the Rates and Tariff Section, I supervise the members of and oversee the
18 responsibilities of the section. The responsibilities of the section include, but are not
19 limited to, analyzing utility reports, financial records, and rate case filings to determine
20 the appropriate level of rates for regulated energy utilities, utilizing laws, regulations, and
21 Commission policies. The section is charged with conducting MPSC Staff (Staff) Cost of
22 Service allocation studies (COSS) and rate designs for gas and electric utilities and
23 reviewing special contracts, gas storage rates, and Act 9 intrastate pipeline rates. The

QUALIFICATIONS OF NICHOLAS M. REVERE
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PART I

section is also involved in customer complaint and inquiry processing, updating electric and gas comparison spreadsheets for the MPSC website, and tariff administration.

Q. Have you previously filed testimony in any cases before the Commission?

A. Yes. I filed testimony in the following cases:

<u>Case</u>	<u>Company</u>	<u>Case Type</u>
U-15645	Consumers Energy Electric	Rate Case
U-15766	MichCon Gathering v. Highmount	Act 9 Complaint
U-15768	Detroit Edison/DTE Electric	Rate Case
U-15985	MichCon/DTE Gas	Rate Case
U-15986	Consumers Energy Gas	Rate Case
U-16169	SEMCO Energy Gas	Rate Case
U-16191	Consumers Energy Electric	Rate Case
U-16566	Consumers Energy Electric	RDM Recon
U-16568	Upper Peninsula Power Company	RDM Recon
U-16780	Detroit Edison/DTE Electric	RDM Recon
U-16830	Wisconsin Electric Power Company	Rate Case
U-16952	Detroit Edison/DTE Electric	ECIM Recon
U-16999	MichCon/DTE Gas	Rate Case
U-17643	Consumers Energy Gas	Rate Case
U-17688	Consumers Energy Electric	Act 169
U-17689	Detroit Edison/DTE Electric	Act 169
U-17701	MichCon/ DTE Gas	IRM
U-17735	Consumers Energy Electric	Rate Case

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1	U-17767	Detroit Edison/DTE Electric	Rate Case
2	U-17882	Consumers Energy Gas	Rate Case
3	U-17990	Consumers Energy Electric	Rate Case
4	U-18010	Consumers Energy Gas	Contract
5	U-18014	Detroit Edison/DTE Electric	Rate Case
6	U-18124	Consumers Energy Gas	Rate Case
7	U-18224	Upper Michigan Energy Resources Corporation	CON
8	U-18239	Consumers Energy Electric	SRM
9	U-18248	Detroit Edison/DTE Electric	SRM
10	U-18250	Consumers Energy Electric	Securitization
11	U-18253	Upper Michigan Energy Resources Corporation	SRM
12	U-18254	Upper Peninsula Power Company	SRM
13	U-18255	Detroit Edison/DTE Electric	Rate Case
14	U-18258	Cloverland Electric Cooperative	SRM
15	U-18322	Consumers Energy Electric	Rate Case
16	U-18370	Indiana Michigan Power Company	Rate Case
17	U-18999	DTE Gas	Rate Case
18	U-20111	Upper Peninsula Power Company	TCJA Credit A
19	U-20114	Michigan Gas Utilities	TCJA Credit A
20	U-20130	Upper Michigan Energy Resources Corporation	SRM
21	U-20131	Upper Peninsula Power Company	SRM
22	U-20144	Cloverland Electric Cooperative	SRM
23	U-20162	DTE Electric	Rate Case

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1	U-20189	DTE Gas	TCJA Credit B
2	U-20276	Upper Peninsula Power Company	Rate Case
3	U-20284	DTE Electric	TCJA Credit B
4	U-20298	DTE Gas	TCJA Calculation C
5	U-20309	Consumers Energy	TCJA Calculation C
6	U-20316	Indiana Michigan Power Company	TCJA Credit B
7	U-20317	Indiana Michigan Power Company	TCJA Calculation C
8	U-20322	Consumers Energy Gas	Rate Case
9	U-20233	Consumers Energy Gas	GCR Plan
10	U-20359	Indiana Michigan Power Company	Rate Case
11	U-20479	SEMCO Energy Gas	Rate Case
12	U-20561	DTE Electric	Rate Case
13	U-20642	DTE Gas	Rate Case
14	U-20650	Consumers Energy Gas	Rate Case
15	U-20150	CARE v. Upper Peninsula Power Company	Complaint
16	U-20697	Consumers Energy Electric	Rate Case
17	U-20889	Consumers Energy Electric	Securitization
18	U-20940	DTE Gas	Rate Case
19	U-20963	CE Electric	Rate Case
20	U-21148	Consumers Energy Gas	Rate Case
21	U-20836	DTE Electric	Rate Case
22	U-21224	Consumers Energy Electric	Rate Case
23	U-21286	Upper Peninsula Power Company	Rate Case

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1	U-21308	Consumers Energy Gas	Rate Case
2	U-21297	DTE Electric	Rate Case
3	U-21389	Consumers Energy Electric	Rate Case
4	U-21461	Indiana Michigan Power Company	Rate Case
5	U-21384	DTE Gas	Depreciation
6	U-21291	DTE Gas	Rate Case
7	U-21490	Consumers Energy Gas	Rate Case
8	U-21540	Michigan Gas Utilities	Rate Case
9	U-21555	Upper Peninsula Power Company	Rate Case

DIRECT TESTIMONY OF NICHOLAS M. REVERE
CASE NUMBER U-21534
PART II

1 Q. What is the purpose of your testimony in this case?

2 A. The purpose of my testimony is to present Staff's position on portions of the Company's
3 fleet electrification programs and Staff's alternative calculation for the state reliability
4 mechanism (SRM) capacity revenue requirement and charges.

5 Q. Are you sponsoring any exhibits?

6 A. No.

7 **Fleet Electrification CBAs**

8 Q. What aspects of the Company's proposed fleet electrification programs are you
9 addressing?

10 A. I will be addressing Staff's position on how the benefits to the ratepayers supporting the
11 rebate programs characterized by the Company as "Fleet – Other DCFCs" and "Fleet –
12 Other Level 2" can be assured through proper project selection.

13 Q. What benefits does the Company claim will accrue to the ratepayers supporting the
14 program?

15 A. The Company claims an NPV benefit of \$5 million for the Fleet – Other DCFCs and \$37
16 million for the Fleet – Other Level 2 program.¹ It is unclear, however, how much of the
17 "supporting functions" with an NPV cost of \$17 million² are associated with these
18 programs or in what category the costs of certain aspects of the Company's programs
19 specific to fleets, such as eFleet Advisory Services, are included.

20 Q. Does Staff agree that the benefits claimed by the Company will be produced?

¹ Company witness Pina Bennett direct testimony, p. 57.

² *Id.*

DIRECT TESTIMONY OF NICHOLAS M. REVERE
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1 A. With proper project selection, and assuming the supporting functions associated directly
2 with assisting fleets are not too high, Staff believes they are achievable. In order to
3 maximize the benefits from fleet electrification and ensure the claimed benefits have the
4 potential to materialize, particularly given the potential size of the participating fleet
5 loads, is to conduct a cost-benefit analysis (CBA) on each potential project to ensure that
6 the expected benefits to the ratepayers supporting the program through rates from the
7 increased grid utilization outweigh the costs of any rebates or increased system costs
8 creating upward pressure on rates. The Company separates DCFC and Level 2 fleet
9 chargers into separate categories, but no discussion is given as to how these rebates tie-in
10 to the processes the Company goes through when contacted by a fleet customer to discuss
11 electrification. It is unclear if the Company is following the process described by
12 Company witness Bennett common among other utilities to assess fleet electrification
13 potential, but it seems a desirable practice, and a determination of a CBA for supporting
14 ratepayers as part of this process seems like a good fit.

15 Q. Did the Company prepare, Staff request, or the Commission require individual customer-
16 level CBA for other EV programs?

17 A. Not to Staff's knowledge. However, there are substantive differences between the other
18 programs and the fleet programs I am discussing that make such a requirement necessary
19 to ensure the potential benefits to the ratepayers supporting the programs are realized.
20 The impetus behind, for example, home charger rebates, was to eliminate barriers for EV
21 adoption mainly for residential customers. As each residential customer is so small, the
22 potential increase in costs for any given customer has little impact on the total. Also, in
23 an attempt to minimize range anxiety and reduce the barriers to EV adoption, it makes

DIRECT TESTIMONY OF NICHOLAS M. REVERE
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sense to include DCFC and other public charging in the CBA, as they are important to enable the realization of the benefits. For these reasons, it makes sense to view the benefits and costs as a whole rather than at an individual customer basis for at least certain other programs, such as the residential rebate programs. For fleets, however, the customers are likely large enough to impose substantial costs, particularly with the inclusion of DCFC chargers that may only be used by the participating customer. As DCFC chargers are a large, potentially intermittent load, it is entirely possible they will cause substantial costs that could be borne by other customers. Just like with the Company's other EV programs, it is important that the benefits enabled by the inclusion of a DCFC offset those costs. However, as any given DCFC only enables the benefits from a particular customer in fleet segment, as opposed to all customers in the on-route segment, it is important to conduct the analysis at the same individual customer-level.

Q. Is the high-level CBA submitted by the Company sufficient to address these concerns?

A. No, based on the above discussion. However, if the Company is required to ensure that each individual participating customer produces a net benefit to the supporting ratepayers, the concerns will be addressed. The determination of a net benefit should be done through a customer-specific CBA, including all relevant information, such as costs to the system of the particular set up, rate benefit of incremental load, and consider such factors as expected time and duration of charging, maximum load for charging, and any other relevant factors.

Alternative SRM Calculation

Q. Why is Staff presenting an alternative SRM calculation in the instant case?

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1 A. Since the initial approval of the current method of calculating the SRM capacity charge
2 and associated rates, Staff has become aware of several potential issues with that method.
3 For example, the required reconciliation of projected energy sales revenue net of fuel
4 costs to the actuals, calculated as the value of the Company's generation at the locational
5 marginal price (LMP), has the potential to drive the capacity charge unreasonably low or
6 high depending on the relationship between the Company's costs to produce that energy
7 and both actual and projected LMPs. In addition, the current capacity charge method
8 produces increasingly questionable results the more a utility relies on purchased power
9 agreements for the provision of power to its customers. For these reasons, Staff is
10 presenting an alternative method for calculating the SRM capacity charge and revenue
11 requirement, consistent with its proposal in the initial set of SRM cases.

12 Q. What costs are properly included as part of the capacity charge?

13 A. 2016 PA 341 Section 6w(3) lays out which costs should be included, and offsets thereto,
14 as follows:

15 In order to ensure that noncapacity electric generation services are not
16 included in the capacity charge, in determining the capacity charge, the
17 commission shall do both of the following and ensure that the resulting
18 capacity charge does not differ for full service load and alternative electric
19 supplier load:
20

21 (a) For the applicable term of the capacity charge, include the capacity-
22 related generation costs included in the utility's base rates, surcharges, and
23 power supply cost recovery factors, regardless of whether those costs
24 result from utility ownership of the capacity resources or the purchase
25 or lease of the capacity resource from a third party.
26

27 (b) For the applicable term of the capacity charge, subtract all non-capacity-
28 related electric generation costs, including, but not limited to, costs
29 previously set for recovery through net stranded cost recovery and
30 securitization and the projected revenues, net of projected fuel costs, from
31 all of the following:

DIRECT TESTIMONY OF NICHOLAS M. REVERE
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- (i) All energy market sales.
- (ii) Off-system energy sales.
- (iii) Ancillary services sales.
- (iv) Energy sales under unit-specific bilateral contracts.

Q. What costs should be considered capacity-related for the purpose of calculating the capacity charge per 2016 PA 341 Section 6w(3)?

A. Costs incurred to supply capacity should be included as capacity-related costs. In Staff's opinion, the proper cost of capacity is the Cost of New Entry (CONE), or the cost to build a combustion turbine (CT). The characteristics of a CT are such that it effectively supplies only capacity. A CT is relatively expensive to run to produce energy, but relatively inexpensive to build. Therefore, it is only economically utilized to supply energy in those hours when load is at its highest. These hours are also those which are considered to set the capacity need of the utility to serve its customers. Plants other than CTs are more expensive to build and less expensive to run, making them the most cost-effective choice only if they run enough hours a year so that the total cost is lower. Therefore, the difference between the cost to build a CT and any other type of plant is the capital cost expended to produce lower energy costs. In Staff's opinion, this cost should properly be considered an energy cost. However, the law requires that net sales to the market be applied as an offset to the capacity-related costs. As all energy is bid into the market at the cost to run a plant, but plants are paid if dispatched at the highest bid called in the supply stack, these net-energy market sales (imperfectly) capture what Staff would consider to be the energy related portion of capacity costs. Therefore, to remove all costs above a CT and then apply an offset which effectively, if imperfectly, does the same, would be double counting the offset. An alternative is discussed below.

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1 Q. What costs would be identified as capacity-related under this method?

2 A. Costs currently allocated using the production cost allocator and other capacity-related
3 costs would be the starting point for this determination. Then the percentage applied to
4 determine which of those costs are capacity-related would be set at the percentage
5 necessary to make the resulting amount equal to CONE or some other measure of the value
6 of capacity, as determined by the Commission. This would treat all costs in excess of
7 CONE (or the Commission's chosen value of capacity) as non-capacity-related costs.
8 Should the Commission determine such a method is more appropriate, Staff recommends
9 that either the CONE for MISO zone 7 in the MISO planning year best matching the
10 Company's projected test year or the cost of capacity used to calculate payments by the
11 Company to PURPA generators, be utilized. Either of these would provide consistency in
12 the Commission's determination of the value of capacity.

13 Q. What is the alternative to the current method of determining net energy sales mentioned
14 above?

15 A. The costs associated with purchasing energy from the market when the Company's plants
16 produce less than its customers use are included in rates as an energy cost, appropriately.
17 As a result, and to avoid the potential double-count mentioned previously in my testimony,
18 the revenue produced from energy sales into the market resulting from plants producing
19 above the use of the Company's customers should be included as an offset to the cost of
20 the capacity used to produce that energy. In fact, Section 6w(3)(b) of Act 341 expressly
21 requires revenue from "all energy market sales" be included as an offset to the cost of
22 capacity. Beyond the statutory requirement, it is the appropriate disposition of such
23 revenue, as it is the additional capital expenditure over that of a CT which enables the

DIRECT TESTIMONY OF NICHOLAS M. REVERE
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1 production of energy at a cost low enough to make money in the market. Therefore,
2 revenue from such sales should be used to offset the higher capital expenditures required
3 to enable them. The Commission recognized similar principles in Case No. U-12639, by
4 using net revenues from third party sales to offset fixed generation costs. *In re the*
5 *Implementation of Section 10a(10) of 2000 PA 14*, MPSC Case No. U-12639, 12/20/2001
6 Order, pp 4 and 10.

7 Q. Has Staff prepared a calculation consistent with this alternative calculation of the SRM
8 capacity requirement and charge?

9 A. Not in the instant case, though Staff recommends that, if the Commission finds this
10 alternative compelling, that they require the Company to file a calculation consistent with
11 that determination in their next general rate case.

12 **Summary**

13 Q. Please summarize your recommendations.

14 A. My recommendations are as follows:

15 1. The Commission should require the Company to conduct site-specific CBAs for fleet
16 customers, and only allow for rebates if the determination is a net positive for other
17 customers.

18 2. The Commission should consider Staff's proposed alternative SRM calculation to avoid
19 pitfalls in the current calculation.

20 Q. Does this conclude your testimony?

21 A. Yes, it does.

STATE OF MICHIGAN
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

* * * *

In the matter of the application of)
DTE ELECTRIC COMPANY)
for authority to increase its rates, amend)
its rate schedules and rules governing the)
distribution and supply of electric energy, and)
for miscellaneous accounting authority.)

Case No. U-21534

QUALIFICATIONS AND DIRECT TESTIMONY OF
SHANNON RUECKERT
MICHIGAN PUBLIC SERVICE COMMISSION

July 26, 2024

QUALIFICATIONS OF SHANNON RUECKERT

CASE NUMBER U-21534

PART I

Q. Please state your name and business address.

A. My name is Shannon Rueckert. My business address is 7109 W. Saginaw Hwy, Lansing, MI 48917.

Q. By whom are you employed and in what capacity?

A. I am employed by the Michigan Public Service Commission (MPSC or Commission) as an auditor in the Revenue Requirements section.

Q. How long have you been employed by the Commission?

A. I have been employed since February of 2018.

Q. What is your educational and professional background?

A. I previously served in the US Air Force as a Fuels Resource Controller, responsible for controlling base wide fuels operations and accounting. My duties included daily close out and reconciliation of all fuel transactions. After serving in the Air Force, I managed a family business. While general manager of the business I performed all managerial accounting functions. In 2015, I graduated from the University of Michigan with a Bachelor of Business Administration and a concentration in accounting degree with High Honors. I was previously employed at Andrew's Hooper Pavlik, PLC as a staff accountant where I performed tax preparation and audits of municipalities, retirement plans, and banks. In April of 2019 I completed the Master of Business Administration program, with a concentration in accounting, at the University of Michigan. I have been involved in rate case audits and performed audit work in the following cases:

<u>Case No.</u>	<u>Company / Type of Case</u>

U-20276	Upper Peninsula Power Company Electric Rate Case

U-20286	Consumers Energy Company's Tax Cuts and Jobs Act (TCJA) Credit B

QUALIFICATIONS OF SHANNON RUECKERT

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PART I

1	U-20322	Consumer's Energy Gas Rate Case
2	U-20359	Indiana Michigan Company Electric Rate Case
3	U-20642	DTE Gas Rate Case
4	U-20650	Consumer's Energy Gas Rate Case
5	U-20697	Consumer's Energy Electric Rate case
6	U-20940	DTE Gas Rate Case
7	U-20963	Consumer's Energy Gas Rate Case
8	U-21045	Alpena Electric Company
9	U-21097	NSP Electric Company
10	U-21148	Consumer's Energy Electric Rate Case
11	U-21194	Detroit Thermal Transfer of Control Case
12	U-20836	DTE Electric Rate Case
13	U-21224	Consumer's Energy Electric Rate Case
14	U-21286	Upper Peninsula Power Company Electric Rate Case
15	U-21308	Consumer's Energy Gas Rate Case
16	U-21366	Michigan Gas Utilities
17	U-21389	Consumer's Energy Electric Rate Case
18	U-21461	Indiana Michigan Company Electric Rate Case
19	U-21490	Consumer's Energy Gas Rate Case
20	U-21291	DTE Gas Rate Case
21	U-21540	Michigan Gas Utilities
22	U-21555	Upper Peninsula Power Company Electric Rate Case
23		

DIRECT TESTIMONY OF SHANNON RUECKERT

CASE NUMBER U-21534

PART II

1 Q. What is the purpose of your testimony?

2 A. The purpose of my testimony is to present Staff's adjustment to the Return on Tree Trim
3 Regulatory Asset. Also, I will present Staff's Uncollectible Accounts, Injuries &
4 Damages, Employee Savings Plan, Active Healthcare, and Other Employee Benefits
5 expenses.

6 Q. Are you sponsoring exhibits?

7 A. Yes.

8	Exh.	Schedule	Title
9	A-11	A-1.1	Tree Trim Regulatory Asset - Return On.
10	S-15.0	N/A	Projected Accounts 904, 925, and 926 Expenses
11			for the Projected Test-Period Ending December 31,
12			2025.
13	S-15.1	N/A	Uncollectible Accounts Expense for the Projected
14			Test-Period Ending December 31, 2025.
15	S-15.2	N/A	Injuries & Damages Expense Normalization.
16	S-15.3	N/A	Employee Savings Plan, Active Healthcare,
17			and Other Benefits Expense Projections for the
18			Projected Test-Period Ending December 31, 2025.
19	S-15.4	N/A	Employee Savings Plan, Active Healthcare
20			Expense, and Other Benefits Average Annual
21			Growth Rates (AAGR).

22 Q. Please describe Exhibit A-11, Schedule A-1.1.

23 A. Exhibit A-11, Schedule A1.1, identifies the return on the Tree Trim Regulatory Asset for
24 the Projected Test-Period Ending December 31, 2025.

DIRECT TESTIMONY OF SHANNON RUECKERT
CASE NUMBER U-21534
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1
2 Q. Please describe Exhibit S-15.0.

3 A. Exhibit S-15.0 presents Staff's projections for FERC accounts 904, 925, and 926
4 expenses for the Projected Test-Period Ending December 31, 2025. The projections were
5 developed through the category listed in column (a.). Column (b.) presents the
6 Company's projection and column (d.) presents Staff's projection, with a difference
7 shown in column (c.). The differences in column (c.) represent Staff's adjustments and
8 are supported by corresponding exhibits and Commission Staff listed in column (e.).

9 **Return on Tree Trim Regulatory Asset**

10 Q. What rate of return did the Company use to calculate its return on the Tree Trim
11 Regulatory Asset?

12 A. The Company used its Rate of Return on Permanent Capital of 9.2%. See the Direct
13 Testimony of Kirk M. Vangilder, page 16, and Exhibit A-14, Schedule D1. This
14 produced a return on the Tree Trim regulatory asset of \$18,786,000 shown on Company
15 Exhibit A-11, Schedule A1.1.

16 Q. Has the Company been approved to use the Rate of Return on Permanent Capital?

17 A. No. In Order case U-21297, page 280, the Commission found that the program "should
18 remain as it is" and use the short-term debt rate to calculate the return on the Tree Trim
19 regulatory asset.

20 Q. What rate did Staff use to calculate the Return on Tree Trim Regulatory Asset?

21 A. Staff, consistent with the Commission's Order in case U-21297, used the short-term debt
22 rate of 4.96% presented on Exhibit S-4, Schedule D3, and supported by Staff witness
23 Ufolla. This creates a return on Tree Trim regulatory asset of \$10,133,000. Staff

DIRECT TESTIMONY OF SHANNON RUECKERT

CASE NUMBER U-21534

PART II

1 recommends the Commission continue to use the short-term debt rate authorized in Order
2 case U-21297, page 280.

3 **Uncollectible Accounts Expense**

4 Q. Does Staff support the Company's projected uncollectible accounts expense (UCX)?

5 A. No. While the Company's methodology is consistent with Staff's direct write off method,
6 the revenue amount used is excessive. Revenue is multiplied by the bad debt loss ratio
7 (BDLR) to create the expense projection. See Exhibit A-13, Schedule C5.8. Staff
8 requested the revenue categories that compose its projection. An excessive revenue
9 amount creates an unreasonable UCX projection. The Company responded that its UCX
10 calculation uses Total Proposed Revenue presented on Exhibit A-16, Schedule F2,
11 column c. Also it included the addition of PSCR revenue not presented on Company
12 exhibits. Staff disagrees with the use of the proposed revenue. Use of future revenue at
13 proposed rates creates an iterative calculation for the Cost-of-Service study. Also, using
14 projected revenue at the Company's proposed rates creates an excessive UCX projection.
15 It is unlikely the Company's proposed rates will be approved without recommended
16 adjustments. It is also Staff's position that PSCR revenue should be excluded as it is not
17 present on the Company's exhibits and audited by Staff in this general rate case. Staff
18 recommends the use of total current revenue projected by test year billing determinants at
19 the current known rates, as presented on Exhibit A-16 Schedule F2, page 2, col. b., ln. 49.
20 Projected revenue at the current known rates creates a more reasonable UCX projection
21 which is not iterative regarding the Cost-of-Service study.

22 Q. What method did Staff use to project the Company's uncollectible accounts expense?

DIRECT TESTIMONY OF SHANNON RUECKERT

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PART II

1 A. Staff requested the Company update its projection to include 2023. This provides the
2 most current information available using the direct write-off method. Staff then applied
3 the BDLR from years 2021 through 2023 to total present revenue amount sourced from
4 Company Exhibit A-16 F2, page 2, col. b., ln. 49. Staff projects an uncollectible expense
5 projection of \$41,029,000 a downward adjustment of \$9,841,000 from the Company's
6 request of \$50,870,000. See Exhibit S-15.0. Staff's direct write off method, which was
7 also used by the Company, is shown on Exhibit S-15.1.

8 **Injuries & Damages Expense**

9 Q. What method did the Company use to project its Injuries & Damages expense?

10 A. The Company used the normalization method approved in Case No. U-21297 and prior
11 cases. See the Direct Testimony of witness Uzenski, page 51. Staff requested the
12 Company update its projection to include 2023 as it's the most recent year available. See
13 Staff Exhibit S-15.2. Updating the Company's projection to include 2023 results in an
14 Injuries & Damages projection of \$15,577,000 a downward adjustment of \$2,863,000
15 from the Company's request of \$18,440,000. See Exhibit S-15.0.

16
17 **Employee Savings Plan Expense (ESP)**

18 Q. What method did the Company use to project its Employee Savings Plan Expense (ESP)
19 expense?

20 A. The Company used "the annual increase in the Company's Employee Savings Plan costs
21 for the years 2017 through 2020 of 7.50%." The calculation of this rate excludes years
22 2021 and 2022. Witness Cooper cited an "abnormally high level of forfeitures arising
23 from employee resignations in 2021" as reason for exclusion. See the direct testimony of
24 M. S. Cooper, page 17.

DIRECT TESTIMONY OF SHANNON RUECKERT

CASE NUMBER U-21534

PART II

1 Q. Does Staff agree with the Company's reasons for excluding 2021 and 2022 from its
2 average annual growth rate (AAGR) calculation?

3 A. No. Staff requested that the Company provide ESP expense for year 2023. The
4 downward trend of annual change continued in 2023. This is not indicative of a non-
5 recurring item and reason for exclusion. See Exhibit S-15.4, line 6. It is Staff's position
6 that the consistent consecutive diminishing growth trend shows that witness Cooper's
7 reasons for excluding 2020 and 2021 from its AAGR are not valid. ESP expense growth
8 continues to decline for five consecutive years. Consistent annual changes the Company
9 experiences should be reflected in expense projections of its rate cases.

10 Q. What method did Staff use to project its ESP expense?

11 A. Staff used a five-year AAGR based on the Company's historic expenses. The annual
12 change in ESP expense from years 2019-2023 produces a 4.06% AAGR. See Staff
13 Exhibit S-15.4, line 7. The rate was applied to historic year 2023 resulting in a projection
14 of \$29,547,000 a reduction of \$7,859,000 from the Company's projection of
15 \$37,406,000. See Exhibit S-15.3, line 1, and Exhibit S-15.0, line 3.

16 **Active Healthcare**

17 Q. What method did the Company use to project its Active Healthcare expense?

18 A. The Company adjusted its historic base year with the "constant dollar" adjustment
19 described on page 23 of witness Cooper's testimony. This method has been consistently
20 rejected by the Commission for healthcare projections. It then projects the adjusted
21 historic expense forward with adjusted annual increase trends provided by independent
22 healthcare experts Willis Towers Watson (WTW). These increase trend factors are 5.1%

DIRECT TESTIMONY OF SHANNON RUECKERT

CASE NUMBER U-21534

PART II

in 2023, 5.0% in 2024, and 4.0% in 2024. See the direct testimony of M. S. Cooper, page 28. Application of these factors resulted in an expense projection of \$56,083,000.

Q. Does Staff agree with the Company's use of WTW's adjusted trend factors to project the expense?

A. No. The Company testified that its Active Healthcare expense is volatile. See the direct testimony of M. S. Cooper page 20. Contrary to witness Cooper's testimony, the WTW's generalized healthcare trends are not reflective of volatility in the Company's expense history. The Company's AAGR for total Active Healthcare is 4.83%. See Exhibit S-15.4, line 7. The Company uses a blended rate of inflation for this volatile expense and unnecessarily conflate the projection method with its "constant dollar" adjustment to the historic year to produce an excessive projection.

Q. What method does Staff recommend for projecting the expense forward?

A. Staff requested total healthcare expense and employee headcount for 2023. Then a per person AAGR of 4.83%, calculated from the Company's own change in Active Healthcare was applied to its unadjusted historic test year total expense to project it forward. The total projected cost is multiplied by the Company's expense percentage as a portion of it is capitalized. This is presented on Exhibit S-15.3, line 6 and results in an Active Healthcare expense projection of \$53,749,000. A reduction of \$2,334,000 from the Company's projection of \$56,083,000.

Other Employee Benefits – General Benefits & Administrative Fees

Q. Please describe the Company's method for projecting General Benefits and Administrative Fees in the Other Employee Benefits category of account 926 shown on Company Exhibit A-13, Schedule C5.11, page 2.

DIRECT TESTIMONY OF SHANNON RUECKERT

CASE NUMBER U-21534

PART II

1 A General Benefits and Administrative Fees fee were escalated at the overall rate of
2 inflation as measured by the Consumer Price Index through the end of the projected test
3 year. See the Direct Testimony of Company witness Cooper, page 38.

4 Q. Are the inflation rates used by the Company reflective of the expense history in these line
5 items of Other Benefits expense?

6 A. No. The Company has seen a steady decrease in General Benefits expense for five
7 consecutive years. Administrative Fees has seen some volatility. However, the expense
8 has decreased more often than not in the last five years. Both line items have a negative
9 five-year AAGR as shown on Exhibit S-15.4, lines 28 and 31. Using general inflation to
10 increase expenses that have a negative AAGR creates an unreasonable projection and
11 disincentives the Company from continuing to reduce the costs of these line items.

12 Q. What method does Staff recommend for projecting the expense forward?

13 A. Staff recommends using the AAGR of General Benefits and Administrative Fees based
14 on a five-year average annual change in the expenses shown on Exhibit S-15.4. This
15 method produces an AAGR of -10.24% for General Benefits, and -5.57% for
16 Administrative Fees. Applying these rates to 2023 expenses provided to Staff by the
17 Company projects a General Benefits expense of \$1,051,000 and Administrative Fees
18 expense of \$4,708,000 shown on Staff Exhibit S-15.3, lines 7 and 9.

19 Q. Please summarize your recommendations.

20 A. First, Staff is recommending the return on the Tree Trim regulatory asset use Staff's
21 Short-term debt rate of 4.96% supported by witness Ufolla. This creates a return on the
22 Tree Trim regulatory asset of \$10,133,000.

DIRECT TESTIMONY OF SHANNON RUECKERT

CASE NUMBER U-21534

PART II

1 Second, Staff recommends an Injuries and Damages expense projection of \$15,577,000.

2 A decrease of \$2,863,000 from the Company's request of \$18,440,000.

3 Third, Staff recommends an Uncollectible Accounts expense projection of \$41,029,000
4 for the 12-month period ending December 31st, 2025. A decrease of \$9,841,000 from the
5 Company's request of \$50,870,000. This projection is based off a three-year average
6 BDLR from 2021-2023 applied to the Company's present revenue projection.

7 Fourth, Staff is recommending an Employee Savings Plan projection of \$29,547,000. A
8 decrease of \$7,859,000 from the Company's request of \$37,406,000. Staff's projection is
9 based off the average annual growth rate from years 2019-2023 applied to a historic year
10 2023 expense.

11 Fifth, Staff is recommending an Active Healthcare expense projection of \$53,749,000 for
12 the 12-month period ending December 31st, 2025. A decrease of \$2,334,000 from the
13 Company's request of \$56,083,000. Staff's projection is based off the per person average
14 annual growth rate the Company realized and applied to the historic year 2023.

15 Sixth, Staff is recommending a General Benefits expense of \$1,051,000 for the 12-month
16 period ending December 31st, 2025. A decrease of \$1,344,000 from the Company's
17 request of \$2,395,000. Staff's projection is based off the negative annual growth rate the
18 Company realized and applied to the historic year 2023.

19 Lastly, Staff is recommending an Administrative Fees expense of \$4,708,000 for the 12-
20 month period ending December 31st, 2025. A decrease of \$2,855,000 from the
21 Company's request of \$7,296,000. Staff's projection is based off the negative annual
22 growth rate the Company realized and applied to the historic year 2023.

23 Q. Does this complete your testimony?

DIRECT TESTIMONY OF SHANNON RUECKERT

CASE NUMBER U-21534

PART II

1 | A. Yes.

S T A T E O F M I C H I G A N
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

* * * *

In the matter of the application of	)	
DTE ELECTRIC COMPANY	)	
for authority to increase its rates, amend	)	Case No. U-21534
its rate schedules and rules governing the	)	
distribution and supply of electric energy, and	)	
<u>for miscellaneous accounting authority</u>	)	

QUALIFICATIONS AND DIRECT TESTIMONY OF
MICHELLE L. SCHREUR
MICHIGAN PUBLIC SERVICE COMMISSION

July 26, 2024

QUALIFICATIONS OF MICHELLE L. SCHREUR
CASE NUMBER U-21534
PART I

1 Q. Please state your name and business address.

2 A. My name is Michelle L. Schreur and my business address is 7109 West Saginaw
3 Highway, Lansing, MI 48917.

4 Q. By whom are you employed and in what capacity?

5 A. I am employed by the Michigan Public Service Commission (MPSC or
6 Commission) as Manager of the Income Analysis Unit in the Revenue
7 Requirements Section of the Regulated Energy Division.

8 Q. Please describe your educational background.

9 A. I graduated from Grand Rapids Community College in 2015 with an Associate
10 Degree in Business Administration. In 2017, I graduated from Grand Valley State
11 University with a Bachelor of Business Administration Degree in Accounting and
12 Finance. In September of 2017, I attended a Utility Business Model/Financial
13 Valuation Training hosted by Michigan State University Institute of Public
14 Utilities (MSU IPU). In August of 2018, I attended a fundamental and
15 intermediate Annual Regulatory Studies Program hosted by MSU IPU.

16 Q. Please describe your professional background with the MPSC.

17 A. I began my employment with the MPSC in September of 2017 as an auditor in the
18 Revenue Requirements Section of the Regulated Energy Division. In that
19 position my responsibilities included, but were not limited to, performing rate
20 case audits using the financial and operating records of regulated utilities,
21 applicable laws, regulations, and Commission policies to determine the necessity
22 of rate relief. In August 2022, I was promoted to my current position as Manager

QUALIFICATIONS OF MICHELLE L. SCHREUR
CASE NUMBER U-21534
PART I

1 of the Income Analysis Unit in the Revenue Requirements Section of the
2 Regulated Energy Division.

3 Q. Have you previously sponsored testimony under the name Michelle L. Edelyn?

4 A. Yes.

5 Q. Have you previously sponsored testimony before the Michigan Public Service
6 Commission?

7 A. Yes. I have sponsored testimony in the following cases:

8	<u>Case Number</u>	<u>Company</u>	<u>Case Type</u>
9	U-18424	Consumers Energy Co.	Gas Rate Case
10	U-18999	DTE Gas Co.	Gas Rate Case
11	U-20162	DTE Electric Co.	Electric Rate Case
12	U-20276	Upper Peninsula Power Co.	Electric Rate Case
13	U-20322	Consumers Energy Co.	Gas Rate Case
14	U-20479	SEMCO Energy Gas Co.	Gas Rate Case
15	U-20561	DTE Electric Co.	Electric Rate Case
16	U-20563	Consumers Energy Co.	DR Reconciliation
17	U-20650	Consumers Energy Co.	Gas Rate Case
18	U-20940	DTE Gas Co.	Gas Rate Case
19	U-20836	DTE Electric Co.	Electric Rate Case
20	U-21286	Upper Peninsula Power Co.	Electric Rate Case
21	U-21308	Consumers Energy Co.	Gas Rate Case
22	U-21389	Consumers Energy Co.	Electric Rate Case

23

QUALIFICATIONS OF MICHELLE L. SCHREUR
CASE NUMBER U-21534
PART I

1	U-21461	Indiana Michigan Power Co.	Electric Rate Case
2	U-21540	Michigan Gas Utilities	Gas Rate Case
3	U-21555	Upper Peninsula Power Co.	Electric Rate Case

DIRECT TESTIMONY OF MICHELLE L. SCHREUR
CASE NUMBER U-21534
PART II

1 Q. What is the purpose of your testimony?

2 A. The purpose of my testimony is to present MPSC Staff's (Staff) overall
3 Operations and Maintenance (O&M) Expense Projection for the 12-month period
4 ending December 31, 2025 (projected test year) in the instant DTE Electric
5 Company (DTE or the Company) rate case.

6 Q. Are you sponsoring any exhibits in this proceeding?

7 A. Yes, I am sponsoring the following exhibits:

8 S-3 Schedule C-5: Projected Operations and Maintenance (O&M) Expense
9 for Test Year Ending December 31, 2025

10 Q. Were these exhibits prepared by you or under your direction?

11 A. Yes.

12

13 **Projected O&M Expense**

14 Q. Please describe Exhibit S-3, Schedule C-5.

15 A. Exhibit S-3, Schedule C-5, presents Staff's O&M Expense Projection of
16 \$1,161,521,000 for the 12-month period ending December 31, 2025, a decrease of
17 \$105,429,000 from the total Company's projection of \$1,266,950,000. Staff's
18 projections were developed through the categories listed in column (a). Column
19 (c) presents the Company's Projection and column (e) presents Staff's Projection,
20 with the difference shown in column (d). The differences in column (d) represent
21 Staff adjustments and are supported by corresponding Sources listed in column
22 (b). A reconciliation by Expense, Account, Amount, and Witness is shown at the
23 bottom of the exhibit.

DIRECT TESTIMONY OF MICHELLE L. SCHREUR
CASE NUMBER U-21534
PART II

1 | Q. Does this conclude your testimony?

2 | A. Yes.

STATE OF MICHIGAN
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

In the matter of the application of	)	
DTE ELECTRIC COMPANY	)	
for the authority to increase its rates, amend	)	Case No. U-21534
its rate schedules and rules governing the	)	
distribution and supply of electric energy, and	)	
<u>for miscellaneous accounting authority</u>	)	

QUALIFICATIONS AND DIRECT TESTIMONY OF

JOSEPH E. UFOLLA

MICHIGAN PUBLIC SERVICE COMMISSION

July 26, 2024

QUALIFICATIONS OF JOSEPH UFOLLA
CASE NUMBER U-21534
PART I

1 Q. Please state your name and business address.

2 A. My name is Joseph E. Ufolla and my business address is 7109 West Saginaw
3 Highway, Lansing, MI.

4 Q. By whom are you employed and in what capacity?

5 A. I am employed by the Michigan Public Service Commission ("MPSC" or
6 "Commission") as a financial analyst in the Revenue Requirements Section of the
7 Regulated Energy Division.

8 Q. Please describe your educational and other professional qualifications.

9 A. I graduated from Oakland Community College in 2016 with an Associate Degree
10 in Business Administration. In 2018, I graduated from Cleary University with a
11 Bachelor of Business Administration Degree in Accounting and Finance. In
12 October 2018, I attended courses in Utility Credit Markets and Ratings and Utility
13 Stock Valuation as part of the Institute of Public Utilities Advanced Regulatory
14 Studies Program at Michigan State University. In August 2019, I attended the
15 Institute of Public Utilities Fundamental Studies Program at Michigan State
16 University. In October 2019 I attended the Essentials of Regulatory Finance
17 conference at Georgetown University hosted by S&P Global.

18 Q. Please describe your professional background with the MPSC.

19 A. I began my employment with the MPSC in August of 2018, as a financial analyst,
20 in the Revenue Requirements Section of the Regulated Energy Division. My
21 primary responsibilities include, but are not limited to, reviewing, analyzing, and
22 making recommendations regarding utility capital structure and development,

QUALIFICATIONS OF JOSEPH UFOLLA
CASE NUMBER U-21534
PART I

1 debt and equity costing, and business and credit risk analysis in rate case
2 proceedings.

3 Q. Have you sponsored testimony in any MPSC cases prior to this case?

4 A. Yes, I have sponsored testimony in the following cases:

<u>Case Number</u>	<u>Company Name</u>	<u>Description</u>
U-20276	Upper Peninsula Power Co.	Short-Term Debt/Inflation
U-20322	Consumers Energy Co. (Gas Div.)	Capital Structure
U-20479	SEMCO Energy Gas Company	Cost of Capital
U-20561	DTE Electric Company	Capital Structure
U-20642	DTE Gas Company	Cost of Capital
U-20940	DTE Gas Company	Cost of Capital
U-20836	DTE Electric Company	Cost of Capital
U-21297	DTE Electric Company	Cost of Capital
U-21461	Indiana Michigan Power Company	Cost of Capital
U-21291	DTE Gas Company	Cost of Capital
U-21555	Upper Peninsula Power Company	Cost of Capital

DIRECT TESTIMONY OF JOSEPH UFOLLA
CASE NUMBER U-21534
PART II

1 Q. What is the purpose of your testimony in this proceeding?

2 A. The purpose of my testimony is to provide recommendations on behalf of the
3 Michigan Public Service Commission Staff ("Staff") regarding DTE Electric
4 Company's ("DTE," "DTE Electric," or the "Company") capital structure
5 balances and corresponding cost rates.

6 Q. Are you sponsoring any exhibits on behalf of Staff in this proceeding?

7 A. Yes, I am sponsoring the following exhibits:

<u>Exhibit</u>	<u>Schedule</u>	<u>Title</u>
S-4	D-1	Capital Structure and Overall Rate of Return
S-4	D-2	Forecasted Long-Term Debt Balance and Cost Rate
S-4	D-3	Forecasted Short-Term Debt Balance and Cost Rate
S-4	D-4	Forecasted Preferred Stock Balance and Cost Rate
S-4	D-5	Forecasted Equity Balance and Cost Rate
S-13		Audit/Discovery Responses and Credit Opinion

15 Q. Were these exhibits prepared by you or under your direction?

16 A. Yes.

17

DIRECT TESTIMONY OF JOSEPH UFOLLA
CASE NUMBER U-21534
PART II

1 Q. Please summarize Staff's overall rate of return recommendation.

2 A. Staff recommends an overall rate of return 5.66%. This recommendation is
3 comprised of a 9.90% return on equity ("ROE") and a common equity ratio of
4 50%. Staff's overall rate of return is premised on the Company's capital structure
5 forecast and then adjusted for any known, anticipated, and/or reasonable changes
6 in the test year ending December 31, 2025. In determining the ratemaking cost of
7 capital, I rely on a mixture of balances and cost rates provided by the Company
8 and by Staff.

9 Q. How is your testimony organized?

10 A. My testimony is split into three sections. The first covers Staff's recommendation
11 on capital structure balances, the second covers Staff's recommendation on
12 capital structure cost rates excluding equity, and the third covers Staff's
13 recommendation on cost of equity (or return on equity).

14 **Capital Structure Balances**

15 Q. Please summarize the recommended ratemaking capital structure balances of Staff
16 and the Company.

17 A. Chart 1 outlines the ratemaking capital structure recommendations by Staff and
18 the Company:
19

DIRECT TESTIMONY OF JOSEPH UFOLLA
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PART II

Chart 1: Capital Structure Balances

Component	Company (000)	Staff (000)
Long-Term Debt	\$ 8,663,922	\$ 8,663,922
Preferred Stock	0	0
Common Equity	8,673,528	8,673,528
Short-Term Debt	509,454	509,454
Deferred Income Tax	4,229,600	4,229,600
Job Development Investment Tax Credits	31,485	31,485
Total Capital Structure	<u>\$22,107,989</u>	<u>\$22,107,989</u>

Q. Did Staff make any adjustments to the Capital Structure balances provided by the Company?

A. No, Staff did not make any adjustments.

Q. What is the Company's current Credit rating?

A. The Company currently has a credit rating of A- from S&P, Aa3 from Moody's, and A+ from Fitch. These are all well above the minimum threshold of BBB/Baa to be considered investment grade credit ratings. The parent company, DTE Energy, has lower credit ratings across the board, but still maintains an investment grade rating from each of the three rating agencies.

Q. Is there any risk of the Company losing access to debt markets?

A. It is extremely unlikely. Both S&P and Fitch cite the parent company's (DTE Energy) credit rating as a primary factor that could lead to a downgrade. Although all three agencies cite deterioration of FFO/Debt (CFO/Debt) as a factor, only Moody's metrics show the Company near a downgrade threshold and as the Moody's rating is significantly higher than that from S&P or Fitch, this is not a

DIRECT TESTIMONY OF JOSEPH UFOLLA
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PART II

major concern. Even if after a downgrade (or two) from any rating agency, the Company would still maintain investment grade. In summary, the Company has strong financial metrics that allow it reliable access to debt markets. The Credit Opinions have been included in Exhibit S-13 pages 3-32.

Capital Structure Cost Rates

Q. Please summarize the recommended cost rates of Staff and the Company.

A. Chart 2 outlines the cost rates recommended by Staff and the Company:

Chart 2: Capital Structure Component Cost Rates

Component	Company	Staff
Long-Term Debt	4.24%	4.21%
Preferred Stock	N/A	N/A
Common Equity	10.50%	9.90%
Short-Term Debt	5.76%	4.96%
Deferred Income Tax	0.00%	0.00%

Q. Please explain the difference between the recommended Cost of Capital provided by Staff and the Company.

A. The difference between the Company and Staff's recommended Cost of Capital is due to difference in Long-Term Debt rate, Short-Term Debt rate, and Cost of Equity. Staff's adjustment to the Company's debt rates are outlined below, and Cost of (Return on) Equity is discussed in the next section.

Q. Please explain the difference between the recommended Long-Term Debt Rates provided by Staff and the Company.

A. The difference in the Long-Term Debt rate recommendations from the Company and Staff are due to Staff updating the Company's now historic debt issuances

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1 and projected interest rates on the bonds to be issued in 2025. Staff updated the
2 issuance originally labelled “2024 Series A” (Exhibit A-14 Schedule D2) with the
3 actual figures provided in audit which can be found on Exhibit S-13 pages 1-2.

4 For future issuances the Company projects an interest rate of 5.62% for both
5 future issuances. The Company’s figures are derived from a projected treasury
6 rate plus a historical 148 basis point spread.¹

7 Staff updates this figure utilizing projected treasury rates of 3.85% from IHS
8 Markit and applying the same 148 basis point spread. Staff’s figures are simply an
9 update to the Company’s figures using more recent projections. The details can be
10 found on Exhibit S-4 Schedule D-2.

11 Q. Please explain the difference between the recommended Short-Term Debt Rates
12 provided by Staff and the Company.

13 A. The difference in the Short-Term Debt rate recommendations from the Company
14 and Staff is due to projected Short-Term Overnight Financing Rate (SOFR) in
15 2025. The Company projects a short-term index rate of 5.31% and adds a 20 basis
16 point historical spread plus 25 basis points in credit fees for a total cost rate of
17 5.76%.²

18 Similar to the adjustment Staff made to Long-Term Debt rate, Staff simply
19 updates the base rate of the Company’s model. Staff uses a projected SOFR of
20 4.51% from IHS Markit for 2025. Applying the Company’s 20 basis point spread,
21 and credit fees resulted in a total cost rate of 4.96%. Staff’s figures are simply an

¹ Direct Testimony TJL-13

² Exhibit A-14 Schedule D3

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1 update to the Company's figures using more recent projections. The details can be
2 found on Exhibit S-4 Schedule D-3.

Return on Equity

4 Q. Please summarize Staff's Return on Equity (ROE) recommendation.

5 A. Staff recommends a return on equity of 9.90%, which is above the midpoint of
6 Staff's 9.30% - 10.30% reasonable ROE range. To determine the fair return on
7 equity, since DTE Electric is not a publicly traded company, a group of eighteen
8 publicly traded electric utility companies forms a comparable proxy group for
9 Staff's analysis. The proxy group's data is used in both Discounted Cash Flow
10 (DCF) and Capital Asset Pricing Model (CAPM) analyses to determine a
11 reasonable cost of equity. Additionally, a Risk Premium model and a review of
12 electric ROE authorizations from other state jurisdictions from 2023-2024 are also
13 utilized in this case. Staff's 9.90% recommendation considers the Company's
14 currently authorized 9.90% and requested 10.50% ROE in the instant case.

15 Q. In establishing a legal basis for Staff's return on equity analysis in this rate case,
16 what considerations does Staff take into account?

17 A. Traditionally, when considering a return on equity recommendation for a utility
18 company, Staff takes into consideration the landmark Supreme Court decisions in
19 the *Hope* and *Bluefield* cases. Those decisions described various methods such as
20 the "Attraction of Capital" and the "Returns Commensurate with Those on
21 Investments in Enterprises of Comparable Risks" that the Supreme Court found to
22 be lawful and prudent. In *Bluefield Water Works and Improvement Co. vs. Public*
23 *Service Commission*, 262 U.S. 679, 692-693 (1923), the Court stated:

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1 “A public utility is entitled to such rates as will permit it to earn a return on the
2 value of the property which it employs for the convenience of the public equal to
3 that generally being made at the same time and in the same part of the country on
4 investments in other business undertakings which are attended by corresponding
5 risks and uncertainties; but has no constitutional right to profits such as are
6 realized or anticipated in highly profitable enterprises or speculative ventures.”

7 Furthermore, in *Federal Power Commission vs. Hope Natural Gas Company*, 320
8 U.S. 591, 603 (1944), the Court stated:

9 “From the investor or company point of view, it is important that there be enough
10 revenue not only for operating expenses but also for the capital costs of the
11 business. These include service on the debt and dividends on the stock. By that
12 standard the return to the equity owner should be commensurate with returns on
13 investment in other enterprises having corresponding risks. That return, moreover,
14 should be sufficient to assure confidence in the financial integrity of the
15 enterprise, so as to maintain its credit and to attract capital.”

16 The Supreme Court’s “end result” doctrine surmises that how a capital structure
17 and rate of return was determined was not so important as long as the end result
18 was appropriate and reasonable for the case at hand. No one methodology
19 provides an exact measure of a fair rate of return on equity, but some methods
20 provide good estimates. The Discounted Cash Flow method and the Capital Asset
21 Pricing Model are the primary models most utility financial analysts use in rate
22 cases to determine a fair and reasonable cost of equity for regulated utility
23 companies. Staff employs those same methods in this rate case along with a risk
24 premium method and a comparison of recent electric ROE determinations from
25 other state jurisdictions.

26

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1 Q. Please explain the development of the electric utility proxy group Staff used to aid
2 in determining its cost of equity recommendation for DTE Electric.

3 A. Staff's proxy group consists of thirteen electric companies that meet six criteria.
4 These criteria are that the company must: 1) be listed as an Electric Utility by
5 Value Line, 2) have data available from all Staff sources to complete the DCF and
6 CAPM analyses, 3) be currently paying dividends to shareholders, 4) not be the
7 target of a merger or acquisition, 5) must have a credit rating of Baa1/BBB+ or
8 higher, and 6) must have a net plant of \$10 billion to \$80 billion.

9 Q. How does Staff's proxy group compare to the Company's proxy group?

10 A. Staff's proxy group is smaller than the Company's proxy group. The Company's
11 proxy group includes a total of 25 utilities. There are 13 overlapping companies
12 between the two proxy groups. The Company and Staff had similar criteria to
13 determine its proxy group, with Staff's generally being more restrictive. Staff's
14 more restrictive criteria are an attempt to find a proxy group as similar to DTE
15 Electric as possible.

16 The Company chose to include Exelon Corporation on its proxy group despite its
17 lack of a Beta value in Dr. Villadsen's analysis.³ This contradicts with the given
18 criteria on page 28 of Dr. Villadsen's testimony which includes "Must have
19 sufficient data for estimation." Since Exelon has no beta, it cannot be used in the
20 CAPM analysis and only affects the DCF where it has the highest growth rate of
21 any company in the Company's analysis. Intentionally or otherwise, the impact of

³ Exhibit A-14 Schedule D5.10 & D5.11

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Exelon Corporation's inclusion in the Company's proxy group results only in a higher DCF output in Dr. Villadsen's analysis.

Discounted Cash Flow (DCF) Analysis

Q. Please provide a brief explanation of the DCF and how it is used in Staff's ROE analysis.

A. The DCF method has been a widely used approach for estimating equity investors' return demand since the 1960s. It was introduced after the 1929 stock market crash by economist I. Fisher in 1930 and expanded upon by J.B. Williams in 1938 before being elaborated on by M.J. Gordon and E. Shapiro. The approach derives its basis by surmising how investors evaluate stocks for potential investment. The formula assesses that investors value securities by evaluating the present value of expected future cash flows attributed to those securities. The model suggests that expected future cash flows include dividends, the projected market value of the security at liquidation, and the discount or capitalization rate investors apply to the future cash flows. The model evaluates the current price of a stock with the assumption that the growth of the stock will be constant throughout its life and that its growth will be less than the cost of its equity. The formula is:

$$P = D / K - g \text{ where:}$$

P = Price per share

D = Dividend per Share Expected

K = Cost of Equity

g = Expected Growth Rate

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1 Rearranging the above formula into the basic DCF formula is the mathematical
2 equation that states that the cost of equity is equal to the security's dividend yield
3 plus a projected future growth rate of the stock. The basic DCF formula is:

4
$$K = D / P + g$$

5 (*D/P = Dividend Yield*)

6 Q. Please explain the computation of Staff's DCF estimate.

7 A. Staff's DCF analysis can be seen in detail on Exhibit S-4 Schedule D-5, pages 3-
8 4. Staff uses the annual dividend yields for the proxy group from Value Line. The
9 dividend yield is modified by the semi-annual compounding method based on the
10 formula $DCF = (D1 / P) * [1 + 0.5g] + g$. The semi-annual compounding model is
11 the preferred model to use when performing a DCF analysis on a group of
12 comparison companies.⁴ This is also the preferred method used by the Federal
13 Energy Regulatory Commission (FERC).

14 For growth rates, Staff employs three well-known and widely used sources;
15 Yahoo Finance, Zacks, and Value Line. The average of these sources is used to
16 determine each individual proxy company's growth estimate. All available growth
17 rate data is utilized ranging from -12.34% to 19.50%.

18 Q. What DCF cost of equity did Staff arrive at?

19 A. Staff arrived at an average adjusted DCF cost of equity estimate of 9.78%, and a
20 median adjusted DCF cost of equity estimate of 9.71%. However, it is worth
21 noting that many analysts would choose to remove the growth rate of -12.34% for

⁴ Parcell, D.C. (1997) The Cost of Capital – A Practitioner's Guide, 1997 Edition, Chapter 8, pages 10-13.

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1 OGE Energy and the 10.55% and 19.50% growth rates for Dominion Energy; if
2 this is done, it results in a DCF average of 9.67%.

3 Q. Did DTE also provide a DCF cost of equity estimate?

4 A. Yes. The Company's cost of capital witness, Dr. Villadsen, sponsored both a
5 simple (single step) and multi-step DCF analyses. The single step analysis yields
6 an 11.2% estimate while the multi-step yields 9.4%. These results are outlined on
7 page 38 of Dr. Villadsen's initial testimony.

8 Q. Do you agree with the Company's DCF analysis and the ROE estimate that
9 results from it?

10 A. No. The methodology used by Dr. Villadsen includes a version of the After-Tax
11 Weighted Average Cost of Capital (ATWACC) approach which has never been
12 approved by this Commission. I do understand the value in using the ATWACC
13 as a tool; however, I have two concerns with this methodology. First, the
14 ATWACC approach takes market weights for equity and debt to establish a
15 market value overall rate of return for the proxy group. The approach then
16 attempts to recreate the same overall market value rate of return using book
17 weights or rate case weights of debt & equity of the Company. If the market
18 weight for equity is higher than debt, which is normally the case, then to obtain
19 the same overall market return, it will most always require a higher cost of equity.
20 Second, the ATWACC is a tool that is geared primarily for use in analyzing the
21 Overall Cost of Capital. It does not analyze the Cost of Equity exclusively as a
22 pure DCF or CAPM equation is designed to do, and for these reasons, although I

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1 see value in the ATWACC analysis, I do not believe it should be used for setting
2 an authorized ROE in this rate case.

Capital Asset Pricing Model (CAPM) Analysis

4 Q. Please discuss Staff's CAPM method.

5 A. The CAPM model was derived from the study and analysis of economists Sharpe,
6 Lintner, and Treynor and in its simplified form is expressed by the following
7 equation:

$$E(R) = R_f + \beta[E(R_m) - R_f] \text{ where:}$$

9 $E(R)$ = Expected rate of return on a risky security

10 R_f = Risk free rate of return

11 $E(R_m)$ = Expected market rate of return

12 β = The systematic risk or beta of a security

13 In theory, the CAPM model differentiates between two types of risk: diversifiable
14 and non-diversifiable risk. The theory suggests that an investor's required return
15 is based on the investor's exposure to risk that is systemic in the market, i.e. non-
16 diversifiable risk. Risk that is unique to a particular security is called firm specific
17 risk. One of CAPM's primary assumptions is that investors are fully invested in
18 the market, i.e. invested in a portfolio of stocks, and thus eliminate (or
19 substantially reduce) firm specific risk. Hence, the model infers that investors risk
20 exposure is primarily composed of market risk and since this is risk that cannot be
21 diversified away, it should be the basis for investor compensation. The beta
22 coefficient measures the volatility of a security's stock price as it relates to
23 changes or movements in the market.

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1 Q. What equity risk premium estimate is used in Staff's CAPM method?

2 A. In evaluating the historical risk premium, Staff reviewed several sources
3 including Damodaran Online from NYU, the Kroll study entitled *Stocks, Bonds,*
4 *Bills and Inflation: The 2023 Classic Yearbook*, and the Federal Reserve Database
5 (FRED). These data sets provide historical values for market return indices used
6 in the estimation of risk premiums and common equity costs. Staff reviewed
7 return data from 1928-2023. Using the S&P 500 return from Damodaran Online
8 for a return on stocks and a mixture of data from Kroll and FRED for long-term
9 government bond yields. The data results in an average historical risk premium of
10 6.80% from 1928-2023.

11 Q. Why does Staff use these sources in this case?

12 A. In previous cases, the Kroll study cited above provided all the necessary data for
13 approximating a historical risk premium; however, this publication has now been
14 discontinued. The Damodaran Online data is the closest consistent approximation
15 Staff has access to for equity returns with a large data set (reaching back to 1928)
16 but provides no 30-year or long-term bond data. FRED data was the most reliable
17 and consistent data available to Staff for long-term (30-year) bond rates but does
18 not date back more than a few years so Staff used the data from Kroll up to 2022
19 and used FRED for 2023 and onward.

20 Q. What risk-free rate is utilized by Staff for its CAPM analysis?

21 A. Because the U.S. government can print money and levy taxes, government
22 securities are commonly considered to be risk-free. The risk-free rate used in the
23 CAPM analysis is the yield associated with a long-term 30-year U.S. government

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1 Treasury bond. Staff reviewed projections of 2025 Treasury bond yields from IHS
2 Markit over a three-month period; the average projection was 3.85%.

3 Q. What measure of beta does Staff use in its CAPM analysis?

4 A. Staff uses beta values from Value Line. Value Line's beta measurement is widely
5 accepted in the industry and utilized by every Cost of Capital witness I am aware
6 of. In general terms, the total market has a beta of 1.00, stocks with a beta of less
7 than 1.00 are less volatile and have less inherent risk than the market as a whole,
8 and stocks with a beta of greater than 1.00 are more volatile and have more
9 inherent risk than the overall market. The Value Line beta is an adjusted forward-
10 looking beta. Value Line's beta methodology measures a 60-month average raw
11 beta on a weekly basis and then applies a Blume adjustment to that raw beta to
12 account for convergence towards the market over time; this results in an adjusted
13 beta (or Blume adjusted beta) which is used by Staff.

14 Q. What cost of equity estimate does Staff arrive at when utilizing the CAPM
15 analysis?

16 A. Utilizing a risk-free rate of 3.85%, a historical risk premium of 6.80%, and an
17 average beta of 0.94, Staff computes an average CAPM cost of equity of 10.23%,
18 and a median of 10.31%. Staff's analysis can be found on page 5 of Exhibit S-4
19 Schedule D5.

20 Q. Did the results of the CAPM analysis provide any concerns to Staff?

21 A. Yes. The primary driver of the CAPM analysis is the beta value. In the utility
22 sector beta values are abnormally high compared to historic trends, so the CAPM
23 ought to be considered a high-end estimate.

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1 As stated earlier, Value Line betas take into account 60-months (or five years) of
2 historic data; at this time that includes the sharp decline and rapid recovery of the
3 stock market in spring of 2020 due to the uncertainty created by the Covid-19
4 pandemic.

5 Q. Did the Company provide a CAPM cost of equity estimate?

6 A. Yes, DTE provides a CAPM analysis referenced in Dr. Villadsen's testimony.⁵
7 The Company gives eight CAPM estimates ranging from 10.8% to 11.7%. These
8 models include different market risk premiums, some Empirical CAPM
9 (ECAPM) alpha adjustments, and Hamada adjustments.

10 Q. Does Staff agree with the Company's methodology for the CAPM models?

11 A. No, Staff does not agree with the use of the Hamada Adjustment. As stated in
12 previous cases, Staff does not believe it is appropriate to make an adjustment for
13 equity ratio of the proxy companies in a ratemaking environment.
14 Staff also disagrees with the use of the ECAPM in conjunction with adjusted
15 betas for the purposes of determining a reasonable ROE. However, due to the
16 currently higher than normal utility betas of the proxy companies in this case, the
17 ECAPM does not make a material difference in the outputs of Dr. Villadsen's
18 models. Therefore, I will not discuss Staff's ECAPM objections at length.

19

⁵ Villadsen Initial Testimony pages 32-36

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1 Q. Why does Staff disagree with the use of the Hamada Adjustment for ratemaking
2 purposes?

3 A. The Hamada Adjustment is meant to correct for differences in financial risk
4 (debt/equity ratio) between the proxy group and the subject company. Much like
5 Staff's previous disapproval of the use of the ATWACC adjustment, Staff rejects
6 the Hamada because there is a fundamental difference between the debt to equity
7 ratio of a publicly traded parent company (like those found in the proxy group)
8 whose equity balance is calculated based on its market value, and a privately
9 owned utility (like DTE Electric) whose equity balance is determined based on its
10 book value. Market values are volatile, changing with each bypass of the stock
11 ticker; meanwhile, book values have a relatively fixed nature, only largely
12 changing when an injection or withdrawal of equity occurs.
13 When removing the Dr. Villadsen's Hamada adjustment from the equation her
14 average CAPM estimates for the electric proxy are as follows:

15 **Chart 3: CAPM Without Hamada⁶**

	Scenario 1	Scenario 2
CAPM	10.98%	10.26%
ECAPM	11.09%	10.34%

16
17 Without the Hamada adjustment, the alpha adjustment of the ECAPM makes a
18 larger difference and Staff would not recommend relying on this model. These

⁶ Schedule D5.10 Columns 4-5

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1 outputs are still generally higher than Staff's CAPM due to the use of a higher
2 projected risk-free rate.

Risk Premium Analysis

4 Q. Please outline Staff's risk premium analysis.

5 A. Staff provides two risk premium estimates. One that uses the difference between
6 utility equity and utility bond returns, and one that examines the difference
7 between utility equity and Treasury bond returns. Essentially this analysis looks at
8 the historical risk premium investors have received for choosing to invest in the
9 equity of a utility company as opposed to a utility bond or Treasury bond.

10 Q. Please explain the derivation of the risk premium approach.

11 A. Staff reviews the Electric Utility Realized Market Return Average from 1931
12 through 2023, compares it with the A-Rated Public Utility Bond Yield Average,
13 or Treasury bond yield, over the same period. Mergent Public Utility Manual &
14 Bond Record provided complete market return and bond yield data until 2002.
15 Therefore, to obtain utility market data for 2003 to 2023, Staff uses data from the
16 Dow Jones Utilities index as shown on Exhibit S-4, Schedule D-5, pages 7-8.
17 The average electric utility market return over the period was 10.77%, the average
18 return of an A-rated composite utility bond was 6.28%, and the average Treasury
19 yield was 5.99% over the same period. Subtracting these bond yields from the
20 electric utility market returns gives risk premiums of 4.49% and 4.78%
21 respectively. Taking these risk premiums and adding them to current yields of
22 5.56% for an A-rated utility and 3.85% for a Treasury bond gives an estimate of

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1 10.05% using the A-rated utility bond method and 8.63% using the Treasury bond
2 method.

3 Q. Did the Company also provide a Risk Premium analysis?

4 A. Yes. The Company provided a Risk Premium estimate of 10.5% using a treasury
5 bond based regression analysis.

6 Q. Does Staff agree with the Company's Risk Premium analyses?

7 A. No. The Company uses a regression analysis risk premium model, while Staff
8 prefers the use of a more traditional risk premium model that is more widely
9 accepted in the ratemaking process. Because the model employs approved ROE
10 instead of earned ROE (like Staff's model), the data set only reaches back to 1990
11 giving only 34 years of data. For these reasons, Staff maintains its preference for
12 its own Risk Premium models that have a larger data set, and basis in earned
13 ROE.

ROE Recommendation Summary

14
15 Q. Does Staff review any other data in its ROE analysis?

16 A. Yes. Staff also reviews authorized rate of return decisions for electric utilities
17 rendered by other state commissions across the country for 2023 and 2024. The
18 average authorized ROE decisions for 2023 was 9.60%, and the average in 2024
19 has been 9.66%.⁷
20

⁷ S&P Global: RRA Regulatory Focus Major Rate Case Decisions (Exhibit S-4 Schedule D-5 Page 10)

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Q. Based on Staff's analysis, what is Staff's recommendation of the cost of common equity for DTE Electric in this rate case?

A. Chart 4 summarizes Staff's cost of equity estimates and Staff's recommendation for ROE range and ROE:

Chart 4: Staff's ROE Analysis Summary

<u>Cost of Equity Model</u>	<u>ROE</u>
Discounted Cash Flows	9.71% - 9.78%
CAPM	10.23% - 10.31%
Risk Premium A-Rated Bond	10.05%
Risk Premium Treasury Bonds	8.63%
Average Electric ROE Authorized 2023	9.60%
Average Electric ROE Authorized 2024	9.66%
Recommend Cost of Equity Range	9.30% - 10.30%
ROE used in Overall Cost of Capital	9.90%

Based on the results of the multiple analyses done, along with other factors such as credit metrics, Company requested 10.50% ROE, and currently approved 9.90% ROE, it is Staff's judgement that a reasonable range for DTE Electric's cost of equity to fall within is 9.30% - 10.30%. Within that range, Staff recommends a value of 9.90%, which is the midpoint of Staff's range, is a reasonable ROE for DTE Electric and is appropriate for this rate case.

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1 Q. Please summarize the adjustments Staff made which were presented in your
2 testimony.

3 A. Staff recommended a long-term debt rate of 4.21%, a short-term debt rate of
4 4.96%, and an ROE of 9.90%.

5 Q. Does this conclude your testimony?

6 A. Yes.

STATE OF MICHIGAN
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

* * * *

In the matter of the application of)
DTE ELECTRIC COMPANY)
for authority to increase its rates, amend)
its rate schedules and rules governing the)
distribution and supply of electric energy, and)
for miscellaneous accounting authority.)

Case No. U-21534

EXHIBITS OF
REGULATED ENERGY DIVISION
MICHIGAN PUBLIC SERVICE COMMISSION

July 26, 2024

DTE's Audit Response

MPSC Case No: U-21534

Requester: Staff

Question No.: EMB-1.1

Respondent: J. Sparks

Page: 1 of 1

Question: Referencing the 83,000 monthly RIA credit disbursement projection proposed on page 16 of Jason E. Sparks' testimony:

1. Please provide the calculation for the development of the 83,000 monthly RIA projection over the historical year(s) customer counts and explain all components of the calculation.

Answer: The Company used a 2 year historical average rate of change. Applying that average to the 2023 monthly average of enrollments results in a forecast of 87,000 per month. We also calculated a slight 6% decline in 2023 of accounts receiving energy assistance and included that as part of the forecast since energy assistance triggers accounts to receive the RIA credit. Using that 6% decline brings it to an estimated 83,000 monthly projection.

Year	Month Average	Change from previous year
2021	56,913	43%
2022	71,829	26%
2023	75,522	5%
YTD May 2024	75,860	
F2025	83,000	

Attachment: None

DTE's Audit Response

MPSC Case No: U-21534

Requester: Staff

Question No.: EMB-1.2

Respondent: J. Sparks

Page: 1 of 1

Question: Referencing the 83,000 monthly RIA credit disbursement projection proposed on page 16 of Jason E. Sparks' testimony:

2. Please provide explanations/citations supporting the use of that method for calculating the RIA projection.

Answer: See response to EMB-1.1

Attachment: None

DTE's Audit Response

MPSC Case No: U-21534

Requester: Staff

Question No.: EMB-1.3

Respondent: J. Sparks

Page: 1 of 1

Question: Referencing the 83,000 monthly RIA credit disbursement projection proposed on page 16 of Jason E. Sparks' testimony:

3. Please provide any additional support for the RIA projection. Include justification for the increase over the historical year actual disbursements.

Answer: In addition to the 2023 numbers exceeding the 2022 historical, the 2024 year to date May average enrollments are ahead of 2023, and supports the forecast of 83,000 in 2025.

Attachment: None

DTE's Audit Response

MPSC Case No: U-21534

Requester: Staff

Question No.: EMB-1.4

Respondent: J. Sparks

Page: 1 of 1

Question: Referencing the 83,000 monthly RIA credit disbursement projection proposed on page 16 of Jason E. Sparks' testimony:

4. Please reference where in its case (testimonies, exhibits, workpapers) the Company provided support/explanations justifying this proposed projection.

Answer: In my direct testimony on page JES-16, Table 4 "2020-2023 Electric RIA Customer Counts" demonstrates the year-over-year increases despite the absence of workpapers.

Attachment: None

DTE's Audit Response

MPSC Case No: U-21534

Requester: Staff

Question No.: EMB-1.5

Respondent: A. Willis

Page: 1 of 2

Question: Referencing the included recovery of 103,450 (across rate schedules D1.11, D1.8R, D1.2, and D1) monthly senior citizen provision credit disbursements in Company witness Aaron Willis's Schedule F-3:

5. Please provide the calculation for the development of the 103,450 monthly senior citizen credit projection over the historical year(s) customer counts and explain all components of the calculation.

Answer: The Company notes Exhibit A-16, Schedule F3 reflects 104,224 customers receiving the senior citizen provision, across Rate Schedules D1, D1.2, D1.8R, D1.11 and D2 (the Company assumes the question inadvertently did not count D2 in the 103,450 cited). Billing determinants used in Exhibit A-16, Schedule F3 are further supported in initial filing documents, "U-21534 Billing Determinants Workpaper.xlsx". For each Rate Schedule with senior citizen provision customers included, the workpaper shows as follows:

- D1: Tab "AH>D1" calculates the forecasted 501 D1 senior citizen provision customers to be the same as the 2022 historic year data contained in tab "BD-Monthly", given no additional growth of D1 is anticipated.
- D1.2: Tab "AH>D1.2" calculates the 350 D1.2 senior citizen provision customers based on 50% of the percentage of D1.11 senior citizen provision customers. More specifically, the percentage of D1.11 customers on the senior citizen provision is 5.18% (cell M28 of tab "AH>D1.11"); thus the number of D1.2 customers on the senior citizen provision is calculated by applying 2.59% (half of the 5.18%) to the D1.2 customer count of 13,500 ($13,500 \times 2.59\% = 350$)
- The senior citizen provision customers on Rate Schedules D1.8R and D2 were calculated using the same methodology as described above for Rate Schedule D1.2.
- D1.11: Tab "AH>D1.11" shows the 102,050 senior citizen provision customers were calculated based on Rate Schedule D1, D1-A, D1-B, and D1.11 trends. While compiling this response the Company realized it inadvertently used the number of senior citizen provision customers for D1.11 in its Exhibit A-16

DTE's Audit Response

MPSC Case No: U-21534

Requester: Staff

Question No.: EMB-1.5

Respondent: A. Willis

Page: 2 of 2

Schedule F3 page 9 that it used in its last rate case, Case No. U-21297, instead of updating it. Had the number been updated based on the stated methodology using the most recent three years of data available (11/2020 thru 10/2023), it would be 121,899 as opposed to 102,050. Further detail on this calculation is provided in the attachment “U-21534 EMB-1.5 Senior Citizen Provision Customers.xlsx”.

The attachment has five tabs:

- WP-Data – this reflects the active senior citizen provision customer count from Nov 2020 through Oct 2023
- WP-Pivot – reformatted version of WP-Data with the same data
- WP-Chart-Jan2025 – reflects data from WP-Pivot and a linear trendline projected to January 2025
- WP-Chart-Dec2025 – reflects data from WP-Pivot and a linear trendline projected to December 2025
- WP-Summary – Describes the Jan and Dec 2025 forecasted counts, and reflects their average as 122,400. It further adjusts for D1 senior citizen provision customer counts (501 customers) to yield the 121,899 count referenced above as the accurate D1.11 input to the current case.

Attachment: U-21534 EMB-1.5 D1.11 Senior Citizen Provision Customers.xlsx

DTE's Audit Response

MPSC Case No: U-21534

Requester: Staff

Question No.: EMB-1.6

Respondent: A. Willis

Page: 1 of 1

Question: Referencing the included recovery of 103,450 (across rate schedules D1.11, D1.8R, D1.2, and D1) monthly senior citizen provision credit disbursements in Company witness Aaron Willis's Schedule F-3:

6. Please provide explanations/citations supporting the use of that method for calculating the senior citizen provision credit disbursement projection.

Answer: The method used for calculating the senior citizen provision customers in the test year described in the response to EMB-1.5 is the same method proposed (and approved) in the Company's most recent rate case, Case No. U-21297.

Attachment: None

DTE's Audit Response

MPSC Case No: U-21534

Requester: Staff

Question No.: EMB-1.7

Respondent: A. Willis

Page: 1 of 1

Question: Referencing the included recovery of 103,450 (across rate schedules D1.11, D1.8R, D1.2, and D1) monthly senior citizen provision credit disbursements in Company witness Aaron Willis's Schedule F-3:

7. Please provide any additional support for the projection. Include justification for the increase over the historical year actual disbursements.

Answer: See response to EMB-1.5.

Attachment: None

DTE's Audit Response

MPSC Case No: U-21534

Requester: Staff

Question No.: EMB-1.8

Respondent: A. Willis

Page: 1 of 1

Question: Referencing the included recovery of 103,450 (across rate schedules D1.11, D1.8R, D1.2, and D1) monthly senior citizen provision credit disbursements in Company witness Aaron Willis's Schedule F-3:

8. Please reference where in its case (testimonies, exhibits, workpapers) the Company provided support/explanations justifying this proposed projection.

Answer: See the response to EMB-1.5

Attachment: None

Residential Income Assistance and Residential Senior Citizen Credit Projection Support

Senior Citizen Credit			
	Company Projection	Staff Projection (3 year historical average)	Difference between Staff and Company (revenue adjustment)
Monthly Customer Count	104,224	94,525	
Credit amount	4.25	4.25	
TY Revenue Offset (cost of program)	\$ 5,315,424	\$ 4,820,768	\$ 494,656.08

Customers	Source: Part III Attachment 5(9)												Calendar Year	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Monthly Average
2022	99,133	84,509	104,174	89,714	94,700	99,092	89,392	101,017	96,157	91,601	91,974	102,482		95,329
2021	92,179	84,161	102,245	93,987	89,611	98,973	94,049	100,508	95,831	89,431	89,515	98,915		94,117
2020	106,138	85,082	100,044	90,098	90,276	99,271	94,115	93,949	93,425	92,993	83,834	100,320		94,129
2019	113,149	95,433	100,641	94,928	104,157	93,602	98,182	101,918	92,028	101,355	86,188	100,224		98,484
2018	113,539	107,450	112,211	111,739	116,760	110,014	109,328	119,477	100,520	105,730	104,239	98,083		109,091

Residential Income Assistance Credit			
	Company Projection	Staff Projection (3 year historical average)	Difference between Staff and Company (revenue adjustment)
Monthly Customer Count	83,000	56,134	
Credit amount	8.5	8.5	
TY Revenue Offset (cost of program)	\$ 8,466,000	\$ 5,725,679	\$ 2,740,320.67

Customers	Source: Part III Attachment 5(9)												Fiscal Year Monthly Average (Oct-Sept)	Calendar Year Monthly Average
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
2023	83,898	67,558	84,225	68,573	79,637	74,767	71,061	80,429	77,502	77,240	70,466	70,910	77,107	
2022	55,269	52,469	77,853	64,094	71,276	76,709	70,158	80,901	75,554	77,992	76,119	83,522	65,521	71,826
2021	49,349	47,618	59,861	59,239	56,918	70,001	60,726	60,092	57,131	54,670	52,631	54,664	54,773	56,908
2020	40,632	30,546	42,921	35,150	34,222	36,974	38,501	40,711	40,019	42,557	42,233	51,546	39,013	39,668
2019	31,056	30,971	40,407	42,628	51,059	45,530	48,015	50,430	43,918	49,328	35,631	43,526		42,708
2018	32,722	28,866	16,614	9,438	9,950	9,171	8,959	5,526	954	2,009	16,965	19,031		13,350

Affordability, Alignment, and Assistance Subcommittee 12/5/2023

Elaina Braunschweig (MPSC—Rates and Tariff) Braunschweig@michigan.gov

Jamie Curtis (MPSC—MEAP administrator) CurtisJ14@michigan.gov

Kasey Grieco (SWP MEAP Grantee—Asst. Program Manager) kgrieco@superiorwatersheds.org

Agenda

1

**Review
Subcommittee
Charge and Goals**

2

**Review utility
data submissions
depicting RIA/LIA
reform options**

3

**Discussion on the
data**

4

Next Steps

Overarching Charge of the Energy Policy Board

1

The overall goal of the work of the EAAC is to define and ensure energy affordability, accessibility, and security/self-sufficiency in collaboration with the EWR-LI and the LIEPB (its advisory organization) as stated by the Commission through Case No. U20757.

2

To build on these directives, the LIEPB set their primary purpose as “guiding the process of assessing energy affordability and accessibility holistically, especially through linking EWR services and energy assistance programs.”

3

They set as their overarching goal “to reduce the number of households with unsustainable energy burdens.” All work of the Board, EAAC, and EWR-LI Workgroup flowed from this purpose and goal.

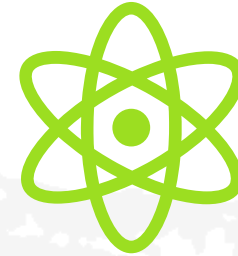
Shared Goals of the Subcommittee



To promote energy affordability.



To support program alignment for ease of access and use, effectiveness of administration, and evaluation.



To evaluate and improve systems of energy assistance.

The ideal system/program design should achieve this while also:

- **Ensuring equitable distribution** in the access to, use of, and outcomes from energy affordability and assistance policies/programs
- **Centering impacted community priorities** and participation in policy/program development, accountability, and assessment
- **Treating customers with dignity**, enabling them to live comfortably, and not penalizing customers for an inability to pay their bills
- **Coordinating and communicating clearly** with relevant state agencies to integrate state policy goals, including those related to healthy homes and climate change

Proposed 2023-2024 AAA Charge p. 58— Awaiting Commission Approval

Case No.: U-21534
Exhibit No.: S-17.2
Witness: EMBraunschweig
Date: July 26, 2024
Page: 6 of 23

Initiate a stakeholder discussion of DTE's report on the enrollment of customers in the LIA credit program and submit a report and recommendations to the Commission.

Discuss the LIA/RIA enrollment assignment, enrollment cap, and best use/program pairings.

Evaluate the feasibility of a low-income customer subclass in the Cost-of-Service-Study (COSS)

Develop a proposal for an energy affordability standard and how the standard can be integrated into the regulatory environment.

Evaluate and make recommendations regarding PIPPs. (2024)

- ❑ The AAA has been reviewing ways to fulfill MCL 460.11 (2), which authorizes low-income rates (Appendix 1), by means of analyzing the current RIA and LIA credits.
- ❑ In October, the AAA evaluated the feasibility of a Consumers Energy cost-based low-income electric cost of service study, which is relevant to the above legislation.
- ❑ The AAA has outlined different possibilities to fulfill this legislation and can make an informed recommendation to the Commission on RIA/LIA credit reform with data supporting the final recommendation.

Utility RIA/LIA Reform Data

Data averaged for fiscal years
2020-2023 for investor-owned
utilities (regulated by the MPSC)

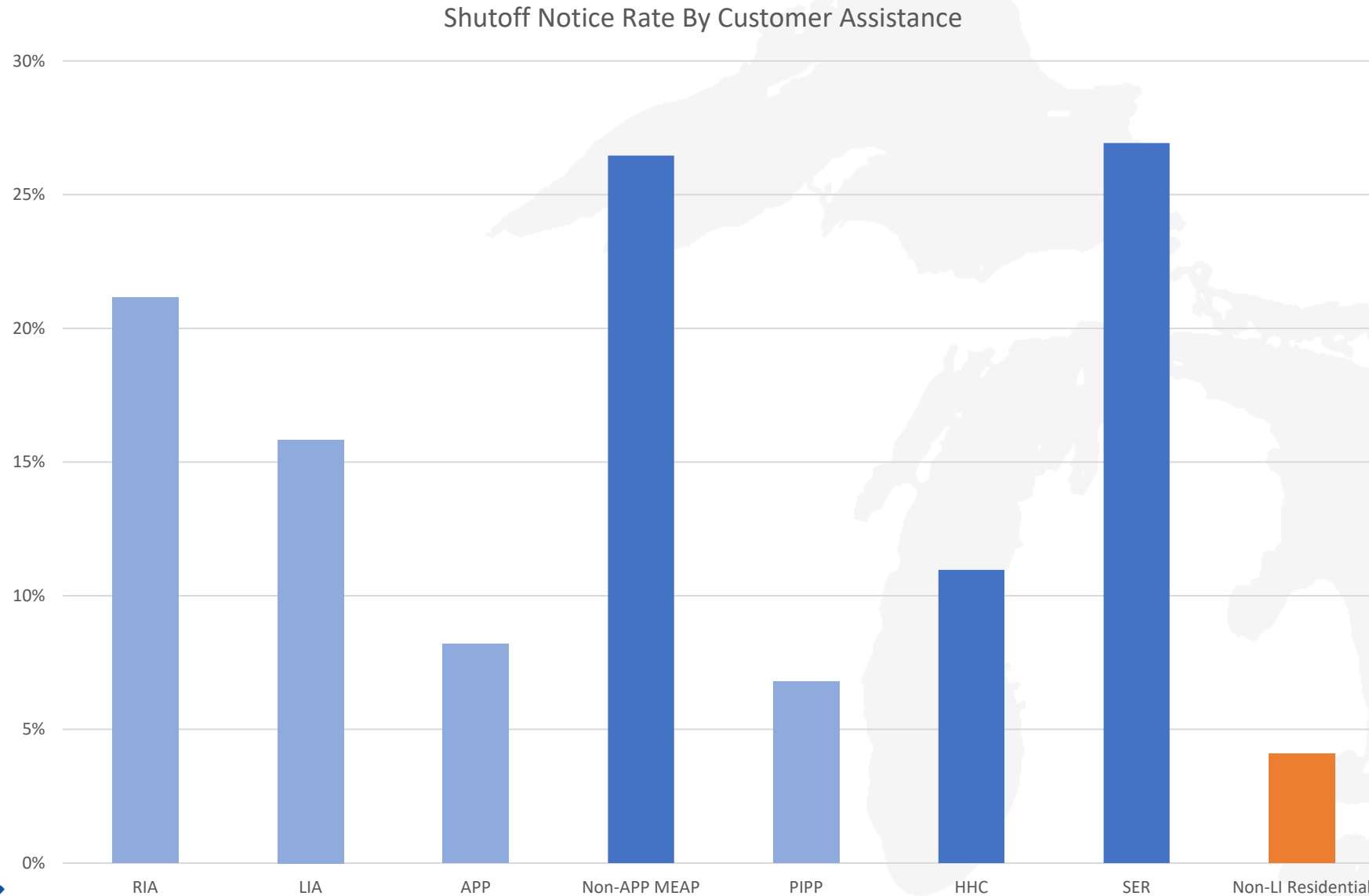
In Fiscal Year 2023:

- ❑ Number of income-qualified customer accounts $\approx$ 572,000
- ❑ RIA/LIA dollars dispersed $\approx$ \$77,000,000
- ❑ Average income-qualified bill:
 - Electric: \$139.59
 - Natural Gas: \$64.37
 - Combination Service: \$185.25
- ❑ Current cost of administering RIA/LIA for a mid-sized utility:
 - \$30,000 one-time cost
 - \$70,000 annual administration

On-time Payment Rate by Assistance Type

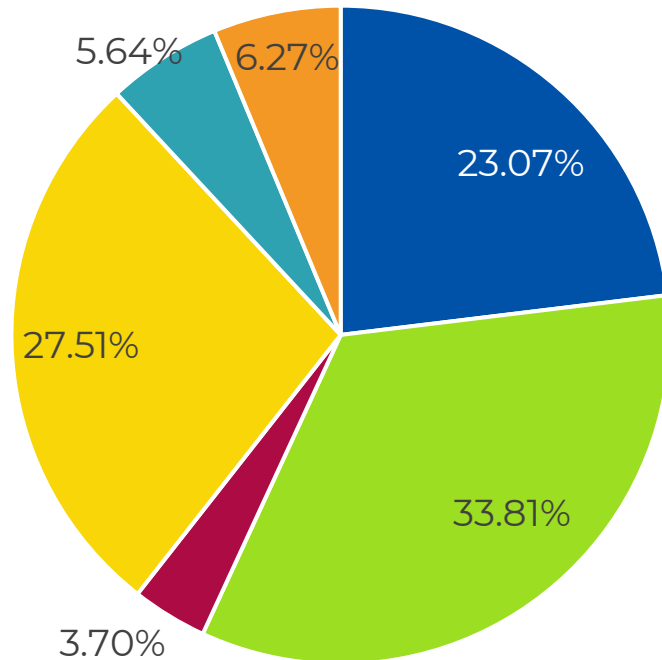


Shutoff Notice Rate by Assistance Type



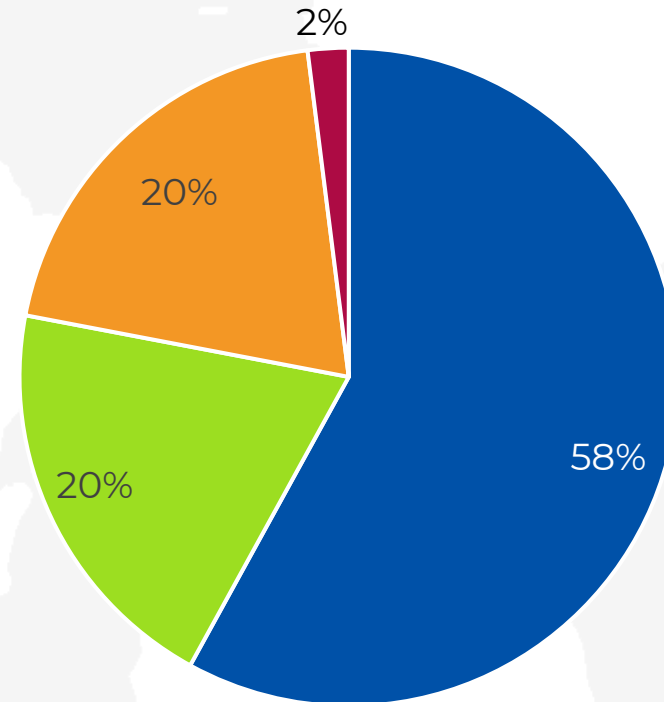
Current LIA Credit Recipients

Large Utility: Groups Prioritized for LIA



■ RIA ■ APP ■ MEAP ■ HHC ■ SER ■ Senior Citizens

Mid-Sized Utility: Groups Prioritized for LIA



■ Low Income ■ APP Graduates ■ Seniors ■ Recent APP Denials with 0-19 FPL

AAA RIA/LIA Reform Options Summary

- ❑ Continue the current administration of the credits
 - Could adjust LIA enrollment cap
- ❑ Reform option 1: continue current credits, but prioritize underserved customers for the LIA
- ❑ Reform option 2: switch to a single credit that is tied to rate increases.
- ❑ Reform option 3: institute a percent of income payment plan
- ❑ The conclusions from the cost-of-service based low-income rate presentation indicated a cost-based rate not providing greater assistance.

Reform Option 1: Prioritize Underserved Customers

- Large utility:
 - ❑ \$50,000 annual maintenance cost
 - ❑ \$50,000 in one-time IT upgrades
- Mid-sized utility:
 - ❑ \$65,000 annual administration cost
 - ❑ \$75,000 one-time cost
 - ❑ \$500 annually for another mid-sized utility depending on which groups are prioritized

*These numbers are based on utility self-reported estimates

*Large utility: 1-3 million customers

Mid-sized utility: 150,000-300,000 customers

Reform Option 2: Single Credit tied to Rate Increases

- ❑ Anticipated additional administrative burden to implement:
 - Large utility:
 - ❑ \$200,000 annually
 - Mid-Sized utility:
 - ❑ \$50,000 one-time expense
 - ❑ Annual administration costs requiring more evaluation.

Reform Option 3: Percent of Income Payment Plan

- ❑ Anticipated additional administrative burden to implement:
 - Large utility:
 - ❑ Estimated cost is \$500,000 annually
 - Mid-Sized utility:
 - ❑ \$260,000 annually to verify income at utility
 - ❑ \$420,000 one-time cost.
 - ❑ To maintain current funding levels, enrollment would have to potentially decrease 33%. To serve all eligible customers, the cost would increase 50%.
- ❑ Bill subsidy costs for one of the current PIPP pilots is \$671 per customer annually with arrearage restrictions and consumption restrictions for customers to qualify.
 - ❑ Current RIA/LIA direct costs are about \$140/customer annually across all utilities.

Comparing Reform Options

	Option 1 (Prioritize underserved for LIA)	Option 2 (Single Credit of \$25 [for example])	Option 3 (PIPP) *Example based off of one piloted utility with income/usage limits
Direct Bill Subsidy Per customer/month:	\$30 for LIA \$5-\$15 for RIA	\$25	\$56
Annually for all eligible customers:	≈\$77,000,000	\$171,490,200	\$383,566,414
Est. Admin Costs One time:	\$50,000-75,000	\$50,000	\$420,000
Annual:	\$50,000-65,000	\$200,000	\$260,000-500,000
Non-Financial Benefit	Benefit customers who haven't had access to greater assistance.	Greater benefit on average. Keeps up with rate increases.	Achieving energy security
Drawbacks	Difficult to determine eligibility.	Inequitable rate increase for smaller utility customers	Inequitable rate increase for smaller utility customers

Reminders Before our Discussion



Use the raise hand function
in Teams to speak



Be respectful of diverse
input



Voice dissent in a
productive and respectful
manner

- ❑ When choosing a reform recommendation, is it best to:
 - Narrow eligibility and availability to provide greater assistance to few?
 - Expand availability, but provide a smaller amount in assistance to all?
 - Expand availability *and* provide greater assistance to all eligible?
 - ❑ Potentially disproportionately impact the energy burden of ALICE customers and other ratepayers.

Next Steps



Next Meeting:

To be scheduled as needed



Data:

Aggregated data will be uploaded to the website



Goals:

Awaiting the Commission's U-20757 Order for further Goals



Leadership:

Working on writing the RIA/LIA report to the Commission

Appendix 1: Authorizing Legislation: MCL 460.11(2)

“Notwithstanding any other provision of this act, the commission may establish eligible low-income customer or eligible senior citizen customer rates. Upon filing of a rate increase request, a utility shall include proposed eligible low-income customer and eligible senior citizen customer rates and a method to allocate the revenue shortfall attributed to the implementation of those rates upon all customer classes. As used in this subsection, ‘eligible low-income customer’ and ‘eligible senior citizen customer’ mean those terms as defined in [section 10t.](#)”

Appendix 2: Energy Assistance Summary

- ❑ RIA credit=equal to monthly customer charge. Automatically applied when customer receives other energy assistance (SER, HHC, MEAP). Can also self-attest
- ❑ LIA credit=\$30-\$40 monthly credit. Applied at company's discretion. Generally given to APP customers to offset MEAP agency's portion of the subsidized bill. Can't receive RIA and LIA together

Appendix 2 cont.: Energy Assistance Summary

- ❑ MEAP: Michigan Energy Assistance Program
 - \$50M collected through the LIEAF surcharge to fund APPs and self-sufficiency services through community agencies
- ❑ APP: the MEAP Affordable Payment Plan
- ❑ HHC: Home Heating Credit
- ❑ SER: State Emergency Relief
- ❑ FPL: Federal Poverty Level
- ❑ ALICE: Asset-Limited, Income-Constrained, Employed

Michigan Public Service Commission
DTE Electric Company
Projected Rate Base
Test Year Ending December 31, 2025
(\$000)

Case No.: U-21534
Exhibit: S-2
Schedule: B1
Witness: JJHecht

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Applicant Projection	Staff Adjustments	Staff Projection
1	<u>Utility Plant in Service:</u>				
2	Plant in Service	Exh. A-12, Sch. B2, L6	24,872,100	(143,540)	24,728,561
3	Plant Held for Future Use	Exh. A-12, Sch. B2, L7	22,532	-	22,532
4	Construction Work in Progress	Exh. A-12, Sch. B2, L8	2,450,590	-	2,450,590
5	Acquisition Adjustments	Exh. A-12, Sch. B2, L9	<u>83,332</u>	-	<u>83,332</u>
6	Total Utility Plant	Sum Lines 2 thru 5	27,428,555	(143,540)	27,285,015
7	Depreciation Reserve	Exh. A-12, Sch. B3, L6	<u>(6,777,289)</u>	<u>13,238</u>	<u>(6,764,051)</u>
8	Net Utility Plant	Line 6 + Line 7	20,651,266	(130,301)	20,520,964
9	Net Capital Lease Property	Exh. A-12, Sch. B4.1, col. (c), L10	6,051	-	6,051
10	Property under Operating Leases	Exh. A-12, Sch. B4.1, col. (c), L11	-	-	-
11	Net Nuclear Fuel Property	Exh. A-12, Sch. B4.1, col. (c), L12	<u>162,350</u>	-	<u>162,350</u>
12	Total Utility Property and Plant	Sum Lines 8 thru 11	20,819,666	(130,301)	20,689,365
13	Less: Capital Lease Obligations	Exh. A-12, Sch. B4.1, col. (c), L85 + L100	<u>7,049</u>	-	<u>7,049</u>
14	Net Plant	Line 12 - Line 13	20,812,617	(130,301)	20,682,316
15	Allowance for Working Capital	Exh. A-12, Sch. B4	<u>1,295,372</u>	<u>(10,675)</u>	<u>1,284,697</u>
16	Total Rate Base	Line 14 + Line 15	<u>22,107,989</u>	<u>(140,976)</u>	<u>21,967,013</u>

Michigan Public Service Commission
DTE Electric Company
Projected Working Capital
Test Year Ending December 31, 2025
(\$000)

Case No: U-21534
Exhibit: S-2
Schedule: B4
Witness: JJHecht

Line No.	(a) Description	(b) Applicant Projection	(c) Staff Adjustment	(d) Staff Projection
1	OTHER PROPERTY AND INVESTMENTS			
2	Non-Current Portion of Allowances	533	-	533
3	Investment and Special Funds	38,749	-	38,749
4	Nuclear Decommissioning Trust Funds	0	-	0
5	TOTAL OTHER PROPERTY & INVESTMENTS	39,282	-	39,282
6	CURRENT ASSETS			
7	Cash	11,011	-	11,011
8	Notes Receivable	-	-	-
9	Notes Receivable-Assoc. Co.	-	-	-
10	Customer Accounts Receivable	531,991	-	531,991
11	Other Accounts Receivable	82,804	(6,111)	76,693
12	Other Accounts Receivable-Assoc. Co.	-	-	-
13	Uncollectible Reserve	(52,834)	-	(52,834)
14	Unbilled Revenues	275,981	-	275,981
15	Inventories - Fuel	169,363	-	169,363
16	Inventories - Material and Supplies	322,862	-	322,862
17	Prepayments	108,056	-	108,056
18	Other Current Assets	0	-	0
19	TOTAL CURRENT ASSETS	1,449,234	(6,111)	1,443,123
20	DEFERRED DEBITS			
21	Unamortized Loss on Reacquired Debt	27,448	-	27,448
22	Reg Asset - Fermi 2	0	-	0
23	Def Debit - Prepaid Pension Asset	694,569	-	694,569
24	Reg Asset - Recoverable Pension & OPEB FAS 158	(0)	-	(0)
25	Reg Asset - Pension Deferral	21,651	-	21,651
26	Reg Asset - Monroe	-	-	-
27	Reg Asset - Ludington	9,933	-	9,933
28	Reg Asset - Transitional Recovery Mechanism (TRM)	-	-	-
29	Reg Asset - Customer 360	31,193	-	31,193
30	Reg Asset - Tier 2 Plants	-	-	-
31	Reg Asset - Residential Income Assistance	2,241	-	2,241
32	Reg Asset - Program Eval. Review Committee (PERC)	2,875	-	2,875
33	Reg Asset - Advanced Distribution Management System (ADMS)	15,514	-	15,514
34	Reg Asset - Charging Forward	38,681	(4,564)	34,117
35	Reg Asset - Enhanced Tree Trimming Program	-	-	-
36	Reg Asset - Advanced Customer Pricing Pilot Costs	3,190	-	3,190
37	Reg Asset - Time of Day Deferred Project Costs	5,784	-	5,784
38	Reg Asset - Open	-	-	-
39	Reg Asset - Pension Capitalized	(0)	-	(0)
40	Reg Asset - Demand Response	3,187	-	3,187
41	Reg Asset - Incentive Deferral	3,884	-	3,884
42	Reg Asset - Low Income Assistance Tracker	24	-	24
43	Reg Asset - Low Income Payment Stability Plan	1,043	-	1,043
44	Reg Asset - TCJA Under Recovery	400	-	400
45	Reg Asset - OPEN	-	-	-
46	Def Debit - Preliminary Survey and Investigation Charges	80	-	80
47	Def Debit - Prepaid OPEB	191,040	-	191,040
48	Def Debit - Combined Operating License (COL)	-	-	-
49	Def Debit - EWR Performance Incentive	-	-	-
50	Other Deferred Debits	38,306	-	38,306
51	TOTAL DEFERRED DEBITS	1,091,042	(4,564)	1,086,478
52	TOTAL ASSETS AND OTHER DEBITS	2,579,558	(10,675)	2,568,883
53	NON-CURRENT LIABILITIES			
54	Accumulated Provision for Injuries and Damages	38,139	-	38,139
55	Accrued Post Retirement Benefits	0	-	0
56	Accrued Pension Liabilities	(0)	-	(0)
57	Other Non-Current Liabilities	(0)	-	(0)
58	TOTAL NON-CURRENT LIABILITIES	38,139	-	38,139
59	CURRENT LIABILITIES			
60	Accounts Payable	576,308	-	576,308
61	Accounts Payable - Assoc. Co.	73,784	-	73,784
62	Taxes Payable	8,040	-	8,040
63	Interest Payable	117,102	-	117,102
64	Fermi 2 Outage Accrual	25,923	-	25,923
65	Other Current Liabilities	168,651	-	168,651
66	TOTAL CURRENT LIABILITIES	969,809	-	969,809
67	DEFERRED CREDITS			
68	Regulatory Liab-Other Post Empl Benefits (OPEB)	130,275	-	130,275
69	Regulatory Liab-OPEB Capitalized	95,172	-	95,172
70	Regulatory Liab- Pension Capitalized	23,843	-	23,843
71	Regulatory Liab- Negative Pension	-	-	-
72	Fermi 2 Decommissioning	0	-	0
73	Other Deferred Credits	26,949	-	26,949
74	TOTAL DEFERRED CREDITS	276,239	-	276,239
75	TOTAL LIABILITIES AND OTHER CREDITS	1,284,186	-	1,284,186
76	Total Working Capital	1,295,372	(10,675)	1,284,697

MPSC Case No: U-21534

Requester: Staff

Question No.: JJH-1.1

Respondent: T. Uzenski

Page: 1 of 1

Question: Confirm the portion of the test year 13-mth average for line 11, Other Accounts Receivable, on Company Exhibit A-12, Schedule B4, that is related to the Company's Natural Account 100820 - "Accounts Receivable NonUtility/NonCore" and Natural Account 100835 - "Accounts Receivable SD Other (Non Core)".

Answer:

<u>Natural Account</u>	<u>Description</u>	<u>13 mo. average</u>
100820	Accounts Receivable NonUtility/Non Core	\$ 14,408,264
100835	Accounts Receivable SD Other (Non Core)	847,509
	Total 100820 and 100835	<u>\$ 15,255,773</u>

Attachment: None.

MPSC Case No: U-21534

Requester: Staff

Question No.: JJH-1.2

Respondent: T. Uzenski

Page: 1 of 1

Question: Does the Company agree that a portion of the balance for the accounts in question one above should be removed from the Company's test year working capital since the balances are the result of transactions not necessary for DTE Electric to provide core utility services to its ratepayers? If the Company does agree, please provide the breakdown separating the Non-Utility Related service. If the Company does not agree, please provide an explanation why.

Answer: Yes. Although these balances are not due from utility customers, a substantial portion relates to amounts due from others related to providing utility service. Unfortunately, these sub-accounts do not distinguish amounts related to utility service versus non-utility service.

The Company asserts that only \$6,110,720 of the balance within the accounts in question should be considered non-recoverable. As shown below, \$9,145,053 relates to utility service and should remain in working capital.

Other Accounts Receivable - Accounts 100820 and 100835

Electric property damage claims due from customers	\$ 2,172,043
Home heating credit due from State of Michigan	\$ 518,288
Medco rebates related to prescription drugs	\$ 675,254
Retiree co-payments for healthcare	\$ 143,279
Affordable Care Act - reinsurance fee reimbursement	\$ 33,355
Michigan Energy Assistance Program (MEAP)	\$ 990,692
Nuclear Department of Energy Reimbursement	\$ 1,248,070
Refundable taxes on fuel purchases	\$ 3,076,278
Fuel Railcar transportation and leases	\$ 287,794
Subtotal - Utility Related	\$ 9,145,053
Non-Utility Related	6,110,720
Total 100820 and 100835	\$ 15,255,773

Attachment: None

DTE Electric Company

Case No.: U-21534

Exhibit: S-6

Schedule: F2

Witness: D.W. Isakson

Page: 1 of 4

**DTE Electric Company
Case No. U-21534
Staff Summary of
Present and Proposed Revenue**

Michigan Public Service Commission
DTE Electric Company
Staff Summary of Present and Proposed Revenue

Case No.: U-21534
Exhibit: S-6
Schedule: F2
Witness: D.W. Isakson
Page: 2 of 4

Total Revenues

Line No.	(a) Residential	(b) Total Present Revenue (\$000's)	(c) Total Proposed Revenue (\$000's)	(d) Total Net Increase/ (Decrease) (\$000's)	(e) Total Net Increase/ (Decrease) (%)
1	D1/D1.6 Residential	\$48,118	\$51,385	\$3,267	6.8%
2	D1.1 Int. Air	\$53,003	\$56,054	\$3,051	5.8%
3	D1.2 TOD	\$32,655	\$34,519	\$1,865	5.7%
4	D1.7 TOD	\$15,366	\$16,366	\$999	6.5%
5	D1.8 Dynamic	\$29,328	\$30,924	\$1,596	5.4%
6	D1.9 Elec. Vehicle	\$1,992	\$2,110	\$117	5.9%
7	D1.11 Time of Use	\$2,636,830	\$2,771,787	\$134,957	5.1%
8	D2 Elec. Space Heat	\$47,128	\$49,825	\$2,697	5.7%
9	D5 Res. Water Ht.	\$14,146	\$15,033	\$887	6.3%
10	Total Residential	\$2,878,567	\$3,028,002	\$149,436	5.2%
11					
12	Secondary				
13	D1.1 Int. Air	\$708	\$744	\$36	5.1%
14	D1.7 TOD	\$1,581	\$1,686	\$105	6.6%
15	D1.8 Dynamic	\$136	\$142	\$7	5.0%
16	D 1.9 Elec Vehicle	\$62	\$65	\$3	5.3%
17	D3 Gen. Serv.	\$1,066,344	\$1,120,643	\$54,299	5.1%
18	D3.1 Unmetered	\$11,064	\$11,756	\$692	6.3%
19	D3.2 Sec. Educ.	\$60,733	\$64,818	\$4,085	6.7%
20	D3.3 Interruptible	\$7,083	\$7,508	\$426	6.0%
21	D3.5 Charging Serv.	\$0	\$0	\$0	-
22	D4 Lg. Gen. Serv.	\$256,631	\$269,162	\$12,531	4.9%
23	D5 Com. Wat. Ht.	\$1,085	\$1,152	\$67	6.1%
24	E1.1 Eng. St. Ltg.	\$1,152	\$1,222	\$70	6.1%
25	R7 Greenhs. Ltg.	\$419	\$447	\$28	6.7%
26	R8 Space Cond.	\$9,537	\$10,056	\$519	5.4%
27	Total Secondary	\$1,416,535	\$1,489,402	\$72,867	5.1%
28					
29	Primary				
30	D11 Prim. Supply	\$959,228	\$968,249	\$9,021	0.9%
31	D12 Exp. Lrg Cust	\$0	\$0	\$0	-
32	D6.2 Pri. Educ.	\$74,835	\$79,510	\$4,675	6.2%
33	D8 Int. Primary	\$39,805	\$40,137	\$332	0.8%
34	D10 El.Schools	\$2,911	\$2,893	(\$18)	(0.6%)
35	R1.1 Alt. Mtl. Melt.	\$8,244	\$8,389	\$145	1.8%
36	R1.2 El. Pr. Htg.	\$30,125	\$30,507	\$381	1.3%
37	R3 Standby	\$8,526	\$8,512	(\$13)	(0.2%)
38	R10 Int. Supply	\$52,885	\$53,242	\$357	0.7%
39	Total Primary	\$1,176,559	\$1,191,439	\$14,880	1.3%
40					
41	D13 XL	\$11,111	\$10,865	(\$246)	(2.2%)
42					
43	Other				
44	D9 Protective Ltg.	\$12,439	\$12,768	\$329	2.6%
45	E1 Muni Street Ltg	\$63,859	\$66,184	\$2,325	3.6%
46	E2 Traffic Lights	\$5,468	\$5,683	\$215	3.9%
47	Total Other	\$81,766	\$84,635	\$2,869	3.5%
48					
49	Total All Classes	\$5,564,537	\$5,804,344	\$239,806	4.3%

Michigan Public Service Commission
DTE Electric Company
Staff Summary of Present and Proposed Revenue

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Power Supply Revenues

Line No.	(a) Residential	(b) Power Supply Sales (MWH)	(c) Present Revenue (\$000's)	(d) Increase/ (Decrease) (\$000's)	(e) Proposed Revenue (\$000's)	(f) Capacity Revenue (\$000's)	(g) Non-Capacity Revenue (\$000's)
1	D1/D1.6 Residential	332,538	\$30,327	\$525	\$30,852	\$12,051	\$18,802
2	D1.1 Int. Air	321,827	\$22,915	\$397	\$23,312	\$9,105	\$14,206
3	D1.2 TOD	196,822	\$14,282	\$242	\$14,524	\$4,345	\$10,179
4	D1.7 TOD	108,929	\$5,827	\$101	\$5,928	\$2,315	\$3,612
5	D1.8 Dynamic	166,773	\$12,765	\$221	\$12,986	\$5,072	\$7,914
6	D1.9 Elec. Vehicle	12,539	\$801	\$14	\$815	\$318	\$496
7	D1.11 Time of Use	13,748,482	\$1,246,609	\$21,598	\$1,268,207	\$495,345	\$772,862
8	D2 Elec. Space Heat	282,672	\$19,648	\$366	\$20,014	\$5,411	\$14,603
9	<u>D5 Res. Water Ht.</u>	97,669	\$4,717	\$82	\$4,799	\$1,874	\$2,925
10	Total Residential	15,268,251	\$1,357,891	\$23,546	\$1,381,437	\$535,838	\$845,600
11							
12	Secondary						
13	D1.1 Int. Air	5,153	\$358	\$3	\$361	\$122	\$239
14	D1.7 TOD	15,388	\$714	\$7	\$720	\$244	\$476
15	D1.8 Dynamic	972	\$77	\$1	\$78	\$26	\$51
16	D1.9 Elec. Vehicle	342	\$28	\$0	\$29	\$11	\$17
17	D3 Gen. Serv.	7,457,882	\$604,536	\$5,722	\$610,258	\$206,591	\$403,667
18	D3.1 Unmetered	89,133	\$6,141	\$58	\$6,199	\$2,098	\$4,100
19	D3.2 Sec. Educ.	331,944	\$26,144	\$128	\$26,272	\$8,564	\$17,708
20	D3.3 Interruptible	54,552	\$3,695	\$35	\$3,730	\$1,263	\$2,467
21	D3.5 Charging Serv.	0	\$0	\$0	\$0	\$0	\$0
22	D4 Lg. Gen. Serv.	1,738,514	\$131,658	\$701	\$132,359	\$41,180	\$91,180
23	D5 Com. Wat. Ht.	9,881	\$472	\$4	\$476	\$161	\$315
24	E1.1 Eng. St. Ltg.	10,256	\$573	\$5	\$578	\$196	\$382
25	R7 Greenhs. Ltg.	4,153	\$192	\$2	\$194	\$66	\$128
26	<u>R8 Space Cond.</u>	73,342	\$5,164	\$49	\$5,213	\$1,765	\$3,448
27	Total Secondary	9,791,512	\$779,751	\$6,717	\$786,467	\$262,287	\$524,181
28							
29	Primary						
30	D11 Prim. Supply	11,505,383	\$754,111	\$4,564	\$758,675	\$206,457	\$552,218
31	D12 Exp. Lrg Cust	0	\$0	\$0	\$0	\$0	\$0.00
32	D6.2 Pri. Educ.	699,018	\$50,619	\$4,328	\$54,948	\$18,643	\$36,304
33	D8 Int. Primary	509,730	\$29,445	\$116	\$29,561	\$5,505	\$24,056
34	D10 El.Schools	20,890	\$1,710	\$10	\$1,720	\$468	\$1,252
35	R1.1 Alt. Mtl. Melt.	125,163	\$6,971	\$15	\$6,987	\$1,076	\$5,911
36	R1.2 El. Pr. Htg.	347,461	\$19,281	(\$81)	\$19,200	\$2,790	\$16,410
37	R3 Standby	74,189	\$5,880	\$29	\$5,908	\$1,634	\$4,274
38	<u>R10 Int. Supply</u>	998,081	\$47,740	\$19	\$47,759	\$0	\$47,759
39	Total Primary	14,279,913	\$915,758	\$9,001	\$924,758	\$236,574	\$688,185
40							
41	D13 XL	200,000	\$10,496	(\$278)	\$10,218	\$3,028	\$7,190
42							
43	Other						
44	D9 Protective Ltg.	33,226	\$1,482	\$50	\$1,532	\$0	\$1,532
45	E1 Muni Street Ltg	123,056	\$5,488	\$186	\$5,675	\$0	\$5,675
46	<u>E2 Traffic Lights</u>	59,731	\$3,817	\$36	\$3,853	\$860	\$2,992
47	Total Other	216,013	\$10,787	\$272	\$11,059	\$860	\$10,199
48							
49	Total All Classes	<u>39,755,689</u>	<u>\$3,074,683</u>	<u>\$39,258</u>	<u>\$3,113,941</u>	<u>\$1,038,587</u>	<u>\$2,075,354</u>

**Michigan Public Service Commission
DTE Electric Company
Staff Summary of Present and Proposed Revenue**

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Distribution Revenues

Line No.	(a) Residential	(b) Distribution Sales (MWH)	(c) Present Revenue (\$000's)	(d) Increase/ (Decrease) (\$000's)	(e) Proposed Revenue (\$000's)
1	D1/D1.6 Residential	332,538	\$17,791	\$2,742	\$20,533
2	D1.1 Int. Air	321,827	\$30,089	\$2,654	\$32,742
3	D1.2 TOD	196,822	\$18,372	\$1,623	\$19,995
4	D1.7 TOD	108,929	\$9,540	\$898	\$10,438
5	D1.8 Dynamic	166,773	\$16,563	\$1,375	\$17,938
6	D1.9 Elec. Vehicle	12,539	\$1,192	\$103	\$1,295
7	D1.11 Time of Use	13,748,482	\$1,390,221	\$113,359	\$1,503,580
8	D2 Elec. Space Heat	282,672	\$27,480	\$2,331	\$29,811
9	D5 Res. Water Ht.	97,669	\$9,428	\$805	\$10,233
10	Total Residential	15,268,251	\$1,520,675	\$125,890	\$1,646,565
11					
12	Secondary				
13	D1.1 Int. Air	5,164	\$350	\$32	\$383
14	D1.7 TOD	15,586	\$867	\$98	\$965
15	D1.8 Dynamic	972	\$59	\$6	\$65
16	D1.9 Elec Vehicle	342	\$34	\$3	\$37
17	D3 Gen. Serv.	7,719,328	\$461,808	\$48,576	\$510,385
18	D3.1 Unmetered	89,133	\$4,924	\$634	\$5,558
19	D3.2 Sec. Educ.	628,745	\$34,590	\$3,957	\$38,546
20	D3.3 Interruptible	62,065	\$3,388	\$391	\$3,779
21	D3.5 Charging Serv.	0	\$0	\$0	\$0
22	D4 Lg. Gen. Serv.	1,993,249	\$124,973	\$11,831	\$136,803
23	D5 Com. Wat. Ht.	9,886	\$614	\$62	\$676
24	E1.1 Eng. St. Ltg.	10,256	\$579	\$65	\$643
25	R7 Greenhs. Ltg.	4,153	\$227	\$26	\$253
26	R8 Space Cond.	74,713	\$4,372	\$470	\$4,842
27	Total Secondary	10,613,593	\$636,784	\$66,151	\$702,935
28					
29	Primary				
30	D11 Prim. Supply	14,553,177	\$205,117	\$4,458	\$209,574
31	D12 Exp. Lrg Cust	0	\$0	\$0	\$0
32	D6.2 Pri. Educ.	1,093,792	\$24,215	\$347	\$24,562
33	D8 Int. Primary	642,991	\$10,360	\$216	\$10,576
34	D10 El.Schools	34,286	\$1,201	(\$29)	\$1,172
35	R1.1 Alt. Mtl. Melt.	125,163	\$1,273	\$130	\$1,402
36	R1.2 El. Pr. Htg.	369,846	\$10,845	\$462	\$11,307
37	R3 Standby	66,802	\$2,646	(\$42)	\$2,604
38	R10 Int. Supply	998,081	\$5,145	\$338	\$5,482
39	Total Primary	17,884,137	\$260,801	\$5,879	\$266,681
40					
41	D13 XL	200,000	\$615	\$32	\$647
42					
43	Other				
44	D9 Protective Ltg.	33,226	\$10,957	\$279	\$11,236
45	E1 Muni Street Ltg	123,056	\$58,370	\$2,139	\$60,509
46	E2 Traffic Lights	59,731	\$1,651	\$179	\$1,830
47	Total Other	216,013	\$70,979	\$2,597	\$73,575
48					
49	Total All Classes	44,181,994	\$2,489,855	\$200,548	\$2,690,403

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**DTE Electric Company
Case No. U-21534
Staff Present and Proposed Revenue
by Rate Schedule**

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Residential Service Rate Non-Transmitting Meter - D1

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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
1	Power Supply Charges					
2	Non-Capacity Charge	90,377 MWh	\$0.07809	7,058	\$0.05654	5,110
3	Capacity Charges:					
4	First 17 KWH/Day	50,492 MWh	\$0.01128	570	\$0.03118	1,575
5	Excess	39,884 MWh	\$0.01626	649	\$0.04495	1,793
6	Power Supply Subtotal	90,377 MWh	9.16¢	8,276	9.38¢	8,477
7						
8	PSCR	90,377 MWh	\$0.00000	0	\$0.00000	0
9	REPS	9,516 Meters	\$0.00000	0	\$0.00000	0
10	Total Full Service Power Supply	90,377 MWh	9.16¢	8,276	9.38¢	8,477
11						
12	Full Service Distribution	Quantity Units				
13						
14	Service Charge	9,516 Cust.	\$8.50	971	\$8.50	971
15	Income Assistance	121 Cust.	(\$8.50)	(12)	(\$8.50)	(12)
16	Senior Citizen Provision	454 Cust.	(\$4.25)	(23)	(\$4.25)	(23)
17						
18	Distribution Charge	90,377 MWh	\$0.08137	7,354	\$0.08962	8,099
19	Distribution System	90,377 MWh	9.17¢	8,289	10.00¢	9,034
20	IRM	90,377 MWh	\$0.000941	85	\$0.000941	85
21	Nuclear Decomm.	90,377 MWh	\$0.000882	80	\$0.000882	80
22	Energy Waste Reduction	90,377 MWh	\$0.002552	231	\$0.002552	231
23	LIEAF	9,516 Cust.	\$0.88	100	\$0.88	100
24	Distribution Surcharges	90,377 MWh	0.55¢	496	0.55¢	496
25						
26	Total Full Service Distribution		9.72¢	8,785	10.54¢	9,530
27	Total Full Service D1	90,377 MWh	18.88¢	17,061	19.92¢	18,007
28						
29	Choice	Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
30						
31	Capacity Charges:					
32	First 17 KWH/Day	0 MWh	\$0.01128	0	\$0.03118	0
33	Excess	0 MWh	\$0.01626	0	\$0.04495	0
34	Capacity Total	0 MWh		0		0
35						
36	Distribution Charges					
37	Service Charge	0 Cust.	\$8.50	0	\$8.50	0
38	Income Assistance	0 Cust.	(\$8.50)	0	(\$8.50)	0
39	Senior Citizen Provision	0 Cust.	(\$4.25)	0	(\$4.25)	0
40						
41	Distribution Charge	0 MWh	\$0.08137	0	\$0.08962	0
42	Distribution System	0 MWh		0		0
43	IRM	0 MWh	\$0.000941	0	\$0.000941	0
44	Nuclear Decomm.	0 MWh	\$0.000882	0	\$0.000882	0
45	Energy Waste Reduction	0 MWh	\$0.002552	0	\$0.002552	0
46	LIEAF	0 Cust.	\$0.88	0	\$0.88	0
47	Distribution Surcharges	0 MWh		0		0
48						
49	Total Choice D1	0 MWh		0		0
50						
51	Total D1	90,377 MWh	18.88¢	17,061	19.92¢	18,007
52	Increase/Decrease (\$)					947

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Interruptible Space-Conditioning Service Rate - D1.1 Residential

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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
1	Power Supply Charges						
2	Non-Capacity Charge	321,827	MWh	\$0.06085	19,583	\$0.04414	14,206
3	Capacity Charges						
4	Summer Energy	300,672	MWh	\$0.01089	3,274	\$0.02976	8,949
5	Winter Winter	21,155	MWh	\$0.00270	57	\$0.00738	156
6	Power Supply Subtotal	321,827	MWh		22,915		23,312
7							
8	PSCR	321,827	MWh	\$0.00000	0	\$0.00000	0
9	Total Full Service Power Supply	321,827	MWh	7.12¢	22,915	7.24¢	23,312
10							
11	Full-Service Distribution	Quantity	Units				
12		Customers	Months				
13	Service Charge (June-Oct)	255,750	5	\$1.95	2,494	\$1.95	2,494
14							
15	Distribution Charge	321,827	MWh	\$0.08137	26,187	\$0.08962	28,841
16	Distribution System	321,827	MWh	8.91¢	28,681	9.74¢	31,334
17	IRM	321,827	MWh	\$0.000941	303	\$0.000941	303
18	Nuclear Decomm.	321,827	MWh	\$0.000882	284	\$0.000882	284
19	Energy Waste Reduction	321,827	MWh	\$0.002552	821	\$0.002552	821
20	Distribution Surcharges	321,827	MWh	0.44¢	1,408	0.44¢	1,408
21							
22	Total Full Service Distribution	321,827	MWh	9.35¢	30,089	10.17¢	32,742
23	Total Full-Service D1.1	321,827	MWh	16.47¢	53,003	17.42¢	56,054
24							
25	Choice	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
26							
27	Capacity Charges						
28	Summer Energy	0	MWh	\$0.01089	0	\$0.02976	0
29	Winter Energy	0	MWh	\$0.00270	0	\$0.00738	0
30	Capacity Total	0	MWh		0		0
31							
32	Distribution Charges						
33		Customers	Months				
34	Service Charge (June-Oct)	0	5	\$1.95	0	\$1.95	0
35							
36	Distribution Energy	0	MWh	\$0.08137	0	\$0.08962	0
37	Distribution System	0	MWh		0		0
38	IRM	0	MWh	0.000941	0	0.000941	0
39	Nuclear Decomm.	0	MWh	\$0.000882	0	\$0.000882	0
40	Energy Waste Reduction	0	MWh	\$0.002552	0	\$0.002552	0
41	Distribution Surcharges	0	MWh		0		0
42							
43	Total Choice D1.1	0	MWh		0		0
44							
45	Total D1.1	321,827	MWh	16.47¢	53,003	17.42¢	56,054
46	Increase/Decrease (\$)						3,051

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Residential Service Rate Enhanced TOU - D1.2

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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
1	Power Supply Charges						
2	Non-Capacity Charge						
3	Summer:						
4	On-Peak	19,491	MWh	\$0.13949	\$2,719	\$0.11146	2,172
5	Off-Peak	58,273	MWh	\$0.04696	\$2,737	\$0.03752	2,187
6	Winter:						
7	On-Peak	26,292	MWh	\$0.11783	\$3,098	\$0.09415	2,475
8	Off-Peak	92,765	MWh	\$0.04512	\$4,186	\$0.03606	3,345
9	Capacity Charges						
10	Summer:						
11	On-Peak	19,491	MWh	\$0.01690	329	\$0.04758	927
12	Off-Peak	58,273	MWh	\$0.00569	332	\$0.01602	933
13	Winter:						
14	On-Peak	26,292	MWh	\$0.01427	375	\$0.04019	1,057
15	Off-Peak	92,765	MWh	\$0.00547	507	\$0.01539	1,428
16	Power Supply Subtotal	196,822	MWh		14,282		14,524
17							
18	PSCR	196,822	MWh	\$0.00000	0	\$0.00000	0
19	REPS	13,500	Meters	\$0.00000	0	\$0.00000	0
20	Total Full Service Power Supply	196,822	MWh	7.26¢	14,282	7.38¢	14,524
21							
22	Full Service Distribution	Quantity	Units				
23							
24	Service Charge	13,500	Cust.	\$8.50	1,377	\$8.50	1,377
25	Income Assistance	76	Cust.	(\$8.50)	(8)	(\$8.50)	(8)
26	Senior Citizen Provision	317	Cust.	(\$4.25)	(16)	(\$4.25)	(16)
27							
28	Distribution Energy	196,822	MWh	\$0.08137	16,015	\$0.08962	17,638
29	Distribution System	196,822	MWh	8.82¢	17,368	9.65¢	18,991
30	IRM	196,822	MWh	\$0.000941	185	\$0.000941	185
31	Nuclear Decomm.	196,822	MWh	\$0.000882	174	\$0.000882	174
32	Energy Waste Reduction	196,822	MWh	\$0.002552	502	\$0.002552	502
33	LIEAF	13,500	Cust.	\$0.88	143	\$0.88	143
34	Distribution Surcharges	196,822	MWh	0.51¢	1,004	0.51¢	1,004
35							
36	Total Full Service Distribution	196,822	MWh	9.33¢	18,372	10.16¢	19,995
37	Total Full-Service D1.2	196,822	MWh	16.59¢	32,655	17.54¢	34,519
38							
39	Choice	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
40							
41	Capacity Charges						
42	Summer:						
43	On-Peak	0	MWh	\$0.01690	0	\$0.04758	0
44	Off-Peak	0	MWh	\$0.00569	0	\$0.01602	0
45	Winter:						
46	On-Peak	0	MWh	\$0.01427	0	\$0.04019	0
47	Off-Peak	0	MWh	\$0.00547	0	\$0.01539	0
48	Capacity Total	0	MWh		0		0
49							
50	Service Charge	0	Cust.	\$8.50	0	\$8.50	0
51	Income Assistance	0	Cust.	(\$8.50)	0	(\$8.50)	0
52	Senior Citizen Provision		Cust.	(\$4.25)	0	(\$4.25)	0
53							
54	Distribution Charge	0	MWh	\$0.08137	0	\$0.08962	0
55	Distribution System	0	MWh		0		0
56	IRM	0	MWh	\$0.000941	0	\$0.000941	0
57	Nuclear Decomm.	0	MWh	\$0.000882	0	\$0.000882	0
58	Energy Waste Reduction	0	MWh	\$0.002552	0	\$0.002552	0
59	LIEAF	0	Cust.	\$0.88	0	\$0.88	0
60	Distribution Surcharges	0	MWh		0		0
61							
62	Total Choice D1.2	0	MWh		0		0
63							
64	Total D1.2	196,822	MWh	16.59¢	32,655	17.54¢	34,519
65	Increase/Decrease (\$)						1,865

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Residential Service Special Low Income Pilot Rate - D1.6

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d)	(e) Proposed	(f)
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
1	Power Supply Charges						
2	Non-Capacity Charge	242,162	MWh	\$0.07809	18,910	\$0.05654	13,692
3	Capacity Charges						
4	First 17 KWH/Day	159,969	MWh	\$0.01128	1,804	\$0.03118	4,988
5	Excess	82,193	MWh	\$0.01626	1,336	\$0.04495	3,695
6	Power Supply Subtotal	242,162	MWh	9.11¢	22,051	9.24¢	22,375
7							
8	PSCR	242,162	MWh	\$0.00000	0	\$0.00000	0
9	REPS	32,000	Meters	\$0.00000	0	\$0.00000	0
10	Total Full Service Power Supply	242,162	MWh	9.11¢	22,051	9.24¢	22,375
11							
12	Full Service Distribution	Quantity	Units				
13							
14	Service Charge	32,000	Cust.	\$8.50	3,264	\$8.50	3,264
15	Income Assistance	32,000	Cust.	(\$40.00)	(15,360)	(\$40.00)	(15,360)
16							
17	Distribution Charge	242,162	MWh	\$0.08137	19,705	\$0.08962	21,701
18	Distribution System	242,162	MWh	3.14¢	7,609	3.97¢	9,605
19	IRM	242,162	MWh	\$0.000941	228	\$0.000941	228
20	Nuclear Decomm.	242,162	MWh	\$0.000882	214	\$0.000882	214
21	Energy Waste Reduction	242,162	MWh	\$0.002552	618	\$0.002552	618
22	LIEAF	32,000	Cust.	\$0.88	338	\$0.88	338
23	Distribution Subtotal	242,162	MWh	0.58¢	1,397	0.58¢	1,397
24							
25	Total Full Service Distribution			3.72¢	9,006	4.54¢	11,003
26	Total Full Service D1.6	242,162	MWh	12.83¢	31,057	13.78¢	33,378
27							
28	Choice	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
29							
30	Capacity Charges						
31	First 17 KWH/Day	0	MWh	\$0.01128	0	\$0.03118	0
32	Excess	0	MWh	\$0.01626	0	\$0.04495	0
33	Total Capacity	0			0		0
34							
35	Service Charge	0	Cust.	\$8.50	0	\$8.50	0
36	Income Assistance	0	Cust.	(\$40.00)	0	(\$40.00)	0
37							
38	Distribution Charge	0	MWh	\$0.08137	0	\$0.08962	0
39	Distribution System	0	MWh		0		0
40	IRM	0	MWh	0.000941	0	0.000941	0
41	Nuclear Decomm.	0	MWh	\$0.000882	0	\$0.000882	0
42	Energy Waste Reduction	0	MWh	\$0.002552	0	\$0.002552	0
43	LIEAF	0	Cust.	\$0.88	0	\$0.88	0
44	Distribution Subtotal	0	MWh		0		0
45							
46	Total Choice D1.6	0	MWh		0		0
47							
48	Total D1.6	242,162	MWh	12.83¢	31,057	13.78¢	33,378
49	Increase/Decrease (\$)						2,320

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Geothermal Time of Day Service Rate - Residential D1.7

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
1	Power Supply Charges					
2	Non-Capacity Charge	108,929 MWh	\$0.04582	\$4,991		
3	Summer Energy (11 a.m. Peak Start)					
4	On-Peak	6,541 MWh			\$0.08439	552
5	Off-Peak	15,676 MWh			\$0.02795	438
6	Winter Energy (11 a.m. Peak Start)					
7	On-Peak	17,639 MWh			\$0.03646	643
8	Off-Peak	69,072 MWh			\$0.02865	1,979
9						
10	Capacity Charges:					
11	Summer Energy (11 a.m. Peak Start)					
12	On-Peak	6,541 MWh	\$0.04248	\$278	\$0.05409	354
13	Off-Peak	15,676 MWh	\$0.00001	\$0	\$0.01792	281
14	Winter Energy (11 a.m. Peak Start)					
15	On-Peak	17,639 MWh	\$0.01717	\$303	\$0.02337	412
16	Off-Peak	69,072 MWh	\$0.00369	\$255	\$0.01836	1,268
17	Power Supply Subtotal	108,929 MWh		\$5,827		5,928
18						
19	PSCR	108,929 MWh	\$0.00000	0	\$0.00000	0
20	Total Power Supply	108,929 MWh	5.35¢	5,827	5.44¢	5,928
21						
22	Full Service Distribution	Quantity Units				
23						
24	Service Charge (\$/day)	8,160 Cust.	\$0.067	200	\$0.067	200
25						
26	Distribution Charge	108,929 MWh	\$0.08137	8,864	\$0.08962	9,762
27	Distribution System	108,929 MWh	8.32¢	9,063	9.14¢	9,961
28	IRM	108,929 MWh	\$0.000941	103	\$0.000941	103
29	Nuclear Decomm.	108,929 MWh	\$0.000882	96	\$0.000882	96
30	Energy Waste Reduction	108,929 MWh	\$0.002552	278	\$0.002552	278
31	Distribution Surcharges	108,929 MWh	0.44¢	477	0.44¢	477
32						
33	Total Full Service Distribution	108,929 MWh	8.76¢	9,540	9.58¢	10,438
34	Total Full-Service D1.7	108,929 MWh	14.11¢	15,366	15.02¢	16,366
35						
36	Choice	Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
37						
38	Capacity Charges:					
39	Summer Energy (11 a.m. Peak Start)					
40	On-Peak	0 MWh	\$0.04248	0	\$0.05409	0
41	Off-Peak	0 MWh	\$0.00001	0	\$0.01792	0
42	Winter Energy (11 a.m. Peak Start)					
43	On-Peak	0 MWh	\$0.01717	0	\$0.02337	0
44	Off-Peak	0 MWh	\$0.00369	0	\$0.01836	0
45	Total Capacity	0 MWh		0		0
46						
47	Distribution Charges					
48	Service Charge (\$/day)	0 Cust.	\$0.067	0	\$0.067	0
49						
50	Distribution Charge	0 MWh	\$0.08137	0	\$0.08962	0
51	Distribution System	0 MWh		0		0
52	IRM	0 MWh	\$0.000941	0	\$0.000941	0
53	Nuclear Decomm.	0 MWh	\$0.000882	0	\$0.000882	0
54	Energy Waste Reduction	0 MWh	\$0.002552	0	\$0.002552	0
55	Distribution Surcharges	0 MWh		0		0
56						
57	Total Choice D1.7	0 MWh		0		0
58						
59	Total D1.7	108,929 MWh	14.11¢	15,366	15.02¢	16,366
60	Increase/Decrease (\$)					999

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Residential Service Rate Dynamic Peak Pricing - D1.8

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
1	Non-Capacity Charge					
2	Off-Peak (11pm-7am)	87,291 MWh	\$0.03940	3,439	\$0.02808	2,452
3	Mid-Peak (7pm-11pm, 7am-3pm)	57,481 MWh	\$0.07635	4,389	\$0.05443	3,129
4	On-Peak (3pm-7pm)	21,918 MWh	\$0.14747	3,232	\$0.10608	2,325
5	Critical Peak (3pm-7pm)	83 MWh	\$0.14747	12	\$0.10608	9
6	Capacity Charges:					
7	Off-Peak (11pm-7am)	87,291 MWh	\$0.00590	515	\$0.01786	1,559
8	Mid-Peak (7pm-11pm, 7am-3pm)	57,481 MWh	\$0.01144	658	\$0.03461	1,990
9	On-Peak (3pm-7pm)	21,918 MWh	\$0.02067	453	\$0.06630	1,453
10	Critical Peak (3pm-7pm)	83 MWh	\$0.80253	67	\$0.84392	70
11	Power Supply Subtotal	166,773 MWh	\$0.07654	12,765	\$0.07787	12,986
12						
13	PSCR	166,773 MWh	\$0.00000	0	\$0.00000	0
14	REPS	21,200 Cust	\$0.00000	0	\$0.00000	0
15	Total Full Service Power Supply	166,773 MWh	7.65¢	12,765	7.79¢	12,986
16						
17	Full Service Distribution	Quantity Units				
18						
19	Sales Applied to Min.	MWh				
20	Service Charge	21,200 Cust.	\$8.50	2,162	\$8.50	2,162
21	Income Assistance	958 Cust.	(\$8.50)	(98)	(\$8.50)	(98)
22	Senior Citizen Provision	498 Cust.	(\$4.25)	(25)	(\$4.25)	(25)
23						
24	Distribution Charge	166,773 MWh	\$0.08137	13,570	\$0.08962	14,945
25	Distribution System	166,773 MWh	9.36¢	15,610	10.18¢	16,985
26	IRM	166,773 MWh	\$0.000941	157	\$0.000941	157
27	Nuclear Decomm.	166,773 MWh	\$0.000882	147	\$0.000882	147
28	Energy Waste Reduction	166,773 MWh	\$0.002552	426	\$0.002552	426
29	LIEAF	21,200 cust	\$0.88	224	\$0.88	224
30	Distribution Surcharges	166,773 MWh	0.57¢	954	0.57¢	954
31						
32	Total Full Service Distribution		9.93¢	16,563	10.76¢	17,938
33	Total Full Service D1.8	166,773 MWh	17.59¢	29,328	18.54¢	30,924
34	Increase/Decrease (\$)					1,596

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Residential Electric Vehicle Rate - D1.9

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
1	Power Supply Charges						
2	Non-Capacity Charge	12,539	MWh				
3	On-Peak	2,063	MWh	\$0.14635	302	\$0.10606	219
4	Off-Peak	10,477	MWh	\$0.03657	383	\$0.02650	278
5	Capacity Charge						
6							
7	On-Peak	2,063	MWh	\$0.02470	51	\$0.06793	140
8	Off-Peak	10,477	MWh	\$0.00618	65	\$0.01700	178
9		12,539	MWh				
10							
11	PSCR	12,539	MWh	\$0.00000	0	\$0.00000	0
12	Total Full Service Power Supply	12,539	MWh	6.39¢	801	6.50¢	815
13							
14	Full Service Distribution	Quantity	Units				
15							
16	Service Charge (\$/month)	4,978	Cust.	\$1.95	116	\$1.95	116
17							
18	Distribution Charge	12,539	MWh	\$0.08137	1,020	\$0.08962	1,124
19	Distribution System	12,539	MWh	9.07¢	1,137	9.89¢	1,240
20	IRM	12,539	MWh	\$0.000941	12	\$0.000941	12
21	Nuclear Decomm.	12,539	MWh	\$0.000882	11	\$0.000882	11
22	Energy Waste Reduction	12,539	MWh	\$0.002552	32	\$0.002552	32
23	Distribution Surcharges	12,539	MWh	0.44¢	55	0.44¢	55
24							
25	Total Full Service Distribution	12,539	MWh	9.50¢	1,192	10.33¢	1,295
26	Total Full Service D1.9	12,539	MWh	15.89¢	1,992	16.82¢	2,110
27							
28	Choice	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
29							
30	Capacity Charge						
31							
32	On-Peak	0	MWh	\$0.02470	0	\$0.06793	0
33	Off-Peak	0	MWh	\$0.00618	0	\$0.01700	0
34	Total Capacity	0	MWh		0		0
35							
36	Distribution Charges						
37	Service Charge (\$/month)	0	Cust.	\$1.95	0	\$1.95	0
38							
39	Distribution Charge	0	MWh	\$0.08137	0	\$0.08962	0
40	Distribution System	0	MWh		0		0
41	IRM	0	MWh	\$0.000941	0	\$0.000941	0
42	Nuclear Decomm.	0	MWh	\$0.000882	0	\$0.000882	0
43	Energy Waste Reduction	0	MWh	\$0.002552	0	\$0.002552	0
44	Distribution Surcharges	0	MWh		0		0
45							
46	Total Choice D1.9	0	MWh		0		0
47							
48	Total D1.9	12,539	MWh	15.89¢	1,992	16.82¢	2,110
49	Increase/Decrease (\$)						117

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Residential Service Rate Standard TOU - D1.11

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
1	Power Supply Charges						
2	Non-Capacity Charges						
3	June - September						
4	On Peak (3pm-7pm, M-F)	887,019	MWh	\$0.12201	108,225	\$0.08837	78,382
5	Off Peak	4,534,773	MWh	\$0.07354	333,487	\$0.05324	241,413
6	October - May						
7	On Peak (3pm-7pm, M-F)	1,077,809	MWh	\$0.08518	91,808	\$0.06232	67,165
8	Off Peak	7,248,881	MWh	\$0.07354	533,083	\$0.05324	385,902
9	Capacity Charges:						
10	June - September						
11	On Peak (3pm-7pm, M-F)	887,019	MWh	\$0.02060	18,273	\$0.05664	50,237
12	Off Peak	4,534,773	MWh	\$0.01241	56,277	\$0.03412	154,727
13	October - May						
14	On Peak (3pm-7pm, M-F)	1,077,809	MWh	\$0.01438	15,499	\$0.03994	43,047
15	Off Peak	7,248,881	MWh	\$0.01241	89,959	\$0.03412	247,333
16							
17	Power Supply Subtotal	13,748,482	MWh	9.07¢	1,246,609	9.22¢	1,268,207
18							
19	PSCR	13,748,482	MWh	\$0.00000	0	\$0.00000	0
20	REPS	1,968,733	Meters	\$0.00000	0	\$0.00000	0
21	Total Full Service Power Supply	13,748,482	MWh	9.07¢	1,246,609	9.22¢	1,268,207
22							
23	Full Service Distribution	Quantity	Units				
24							
25	Service Charge	1,968,733	Cust.	\$8.50	200,811	\$8.50	200,811
26	Income Assistance	54,148	Cust.	(\$8.50)	(5,523)	(\$8.50)	(5,523)
27	Senior Citizen Provision	92,553	Cust.	(\$4.25)	(4,720)	(\$4.25)	(4,720)
28							
29	Distribution Charge	13,748,482	MWh	\$0.08137	1,118,714	\$0.08962	1,232,073
30	Distribution System	13,748,482	MWh	9.52¢	1,309,281	10.35¢	1,422,640
31	IRM	13,748,482	MWh	\$0.000941	12,937	\$0.000941	12,937
32	Nuclear Decomm.	13,748,482	MWh	\$0.000882	12,126	\$0.000882	12,126
33	Energy Waste Reduction	13,748,482	MWh	\$0.002552	35,086	\$0.002552	35,086
34	LIEAF	1,968,733	Cust.	\$0.88	20,790	\$0.88	20,790
35	Distribution Surcharges	13,748,482	MWh	0.59¢	80,939	0.59¢	80,939
36							
37	Total Full Service Distribution			10.11¢	1,390,221	10.94¢	1,503,580
38	Total Full Service D1.11	13,748,482	MWh	19.18¢	2,636,830	20.16¢	2,771,787
39							
40	Choice	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
41							
42	Capacity Charges:						
43	June - September						
44	On Peak (3pm-7pm, M-F)	0	MWh	\$0.02060	0	\$0.05664	0
45	Off Peak	0	MWh	\$0.01241	0	\$0.03412	0
46	October - May						
47	On Peak (3pm-7pm, M-F)	0	MWh	\$0.01438	0	\$0.03994	0
48	Off Peak	0	MWh	\$0.01241	0	\$0.03412	0
49							
50	Capacity Total	0	MWh		0		0
51							
52	Distribution Charges						
53	Service Charge	0	Cust.	\$8.50	0	\$8.50	0
54	Income Assistance	0	Cust.	(\$8.50)	0	(\$8.50)	0
55	Senior Citizen Provision	0	Cust.	(\$4.25)	0	(\$4.25)	0
56							
57	Distribution Charge	0	MWh	\$0.08137	0	\$0.08962	0
58	Distribution System	0	MWh		0		0
59	IRM	0	MWh	0.000941	0	0.000941	0
60	Nuclear Decomm.	0	MWh	\$0.000882	0	\$0.000882	0
61	Energy Waste Reduction	0	MWh	\$0.002552	0	\$0.002552	0
62	LIEAF	0	Cust.	\$0.88	0	\$0.88	0
63	Distribution Surcharges	0	MWh		0		0
64							
65	Total Choice D1.11	0	MWh		0		0
66							
67	Total D1.11	13,748,482	MWh	19.18¢	2,636,830	20.16¢	2,771,787
68	Increase/Decrease (\$)						134,957

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Residential Service Rate Overnight Savers - D1.13
Designed Revenue Neutral to D1.11

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants Quantity Units	(c) Proposed D1.11 Rates Rate Revenue (\$000)	(d) Proposed D1.11 Rates Rate Revenue (\$000)	(e) Revenue Neutral Design Rate Revenue (\$000)	(f) Revenue Neutral Design Rate Revenue (\$000)
1	Power Supply Charges					
2	Non-Capacity Charge					
3	June - September					
4	On Peak (3pm-7pm, M-F)	881,337 MWh			\$0.09832	86,650
5	Off Peak (7am-3pm & 7pm-1am M-F; 7am-1am weekend)	3,561,782 MWh			\$0.06616	235,636
6	Super Off Peak (1am-7am)	978,673 MWh			\$0.04178	40,892
7	October - May					
8	On Peak (3pm-7pm, M-F)	1,067,922 MWh			\$0.05608	59,887
9	Off Peak (7am-3pm & 7pm-1am M-F; 7am-1am weekend)	5,439,585 MWh			\$0.05033	273,785
10	Super Off Peak (1am-7am)	1,819,184 MWh			\$0.04178	76,012
11	Capacity Charges:					
12	June - September					
13	On Peak (3pm-7pm, M-F)	881,337 MWh			\$0.06301	55,536
14	Off Peak (7am-3pm & 7pm-1am M-F; 7am-1am weekend)	3,561,782 MWh			\$0.04240	151,024
15	Super Off Peak (1am-7am)	978,673 MWh			\$0.02678	26,209
16	October - May					
17	On Peak (3pm-7pm, M-F)	1,067,922 MWh			\$0.03594	38,383
18	Off Peak (7am-3pm & 7pm-1am M-F; 7am-1am weekend)	5,439,585 MWh			\$0.03226	175,475
19	Super Off Peak (1am-7am)	1,819,184 MWh			\$0.02678	48,718
20	Power Supply Subtotal	13,748,482 MWh	9.22¢ 1,268,207		9.22¢ 1,268,207	
21						
22	PSCR	13,748,482 MWh	\$0.00000 0		\$0.00000 0	
23	REPS	1,968,733 Meters	\$0.00000 0		\$0.00000 0	
24	Total Full Service Power Supply	13,748,482 MWh	9.22¢ 1,268,207		9.22¢ 1,268,207	
25						
26	Full Service Distribution	Quantity Units				
27						
28	Service Charge	1,968,733 Cust.			\$8.50	200,811
29	Income Assistance	54,148 Cust.			(\$8.50)	(5,523)
30	Senior Citizen Provision	92,553 Cust.			(\$4.25)	(4,720)
31						
32						
33						
34	Distribution Charge	13,748,482 MWh				
35	June - September					
36	On Peak (3pm-7pm, M-F)	881,337 MWh			\$0.18050	159,080
37	Off Peak (7am-3pm & 7pm-1am M-F; 7am-1am weekend)	3,561,782 MWh			\$0.13537	482,172
38	Super Off Peak (1am-7am)	978,673 MWh			\$0.04512	44,162
39	October - May					
40	On Peak (3pm-7pm, M-F)	1,067,922 MWh			\$0.09025	96,379
41	Off Peak (7am-3pm & 7pm-1am M-F; 7am-1am weekend)	5,439,585 MWh			\$0.06769	368,189
42	Super Off Peak (1am-7am)	1,819,184 MWh			\$0.04512	82,090
43	Distribution System	13,748,482 MWh	10.35¢ 1,422,640		10.35¢ 1,422,640	
44	IRM	13,748,482 MWh	\$0.000941 12,937		\$0.000941 12,937	
45	Nuclear Decomm.	13,748,482 MWh	\$0.000882 12,126		\$0.000882 12,126	
46	Energy Waste Reduction	13,748,482 MWh	\$0.002552 35,086		\$0.002552 35,086	
47	LIEAF	1,968,733 Cust.	\$0.88 20,790		\$0.88 20,790	
48	Distribution Surcharges	13,748,482 MWh	0.59¢ 80,939		0.59¢ 80,939	
49						
50	Total Full Service Distribution		10.94¢ 1,503,580		10.94¢ 1,503,580	
51	Total Full Service D1.13	13,748,482 MWh	20.16¢ 2,771,787		20.16¢ 2,771,787	
52						
53	Choice	Quantity Units	Rate Revenue (\$000)		Rate Revenue (\$000)	
54						
55	Capacity Charges:					
56	June - September					
57	On Peak (3pm-7pm, M-F)	0 MWh			\$0.06301	0
58	Off Peak (7am-3pm & 7pm-1am M-F; 7am-1am weekend)	0 MWh			\$0.04240	0
59	Super Off Peak (1am-7am)	0 MWh			\$0.02678	0
60	October - May					
61	On Peak (3pm-7pm, M-F)	0 MWh			\$0.03594	0
62	Off Peak (7am-3pm & 7pm-1am M-F; 7am-1am weekend)	0 MWh			\$0.03226	0
63	Super Off Peak (1am-7am)	0 MWh			\$0.02678	0
64	Capacity Total	0 MWh	0		0	
65						
66	Distribution Charges					
67	Service Charge	0 Cust.	0		\$8.50	0
68	Income Assistance	0 Cust.	0		(\$8.50)	0
69	Senior Citizen Provision	0 Cust.	0		(\$4.25)	0
70						
71	Distribution Charge					
72	June - September					
73	On Peak (3pm-7pm, M-F)	0 MWh			\$0.18050	0
74	Off Peak (7am-3pm & 7pm-1am M-F; 7am-1am weekend)	0 MWh			\$0.13537	0
75	Super Off Peak (1am-7am)	0 MWh			\$0.04512	0
76	October - May					
77	On Peak (3pm-7pm, M-F)	0 MWh			\$0.09025	0
78	Off Peak (7am-3pm & 7pm-1am M-F; 7am-1am weekend)	0 MWh			\$0.06769	0
79	Super Off Peak (1am-7am)	0 MWh			\$0.04512	0
80	Distribution System	0 MWh	0		0	
81	IRM	0 MWh	\$0.000941 0		\$0.000941 0	
82	Nuclear Decomm.	0 MWh	\$0.000882 0		\$0.000882 0	
83	Energy Waste Reduction	0 MWh	\$0.002552 0		\$0.002552 0	
84	LIEAF	0 Cust.	\$0.88 0		\$0.88 0	
85	Distribution Surcharges	0 MWh	0		0	
86						
87	Total Choice D1.13	0 MWh	0		0	
88						
89	Total D1.13	13,748,482 MWh	20.16¢ 2,771,787		20.16¢ 2,771,787	

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Residential Space Heating Rate - D2

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
1	Power Supply Charges						
2	Non-Capacity Charge	282,672	MWh	\$0.06274	17,735	\$0.05166	14,603
3	Capacity Charges						
4	Summer						
5	First 17 KWH/Day	56,257	MWh	\$0.01059	596	\$0.02996	1,685
6	Excess	29,544	MWh	\$0.01514	447	\$0.04283	1,265
7	Winter						
8	First 20 KWH/Day	102,530	MWh	\$0.00624	640	\$0.01765	1,810
9	Excess	94,341	MWh	\$0.00244	230	\$0.00690	651
10							
11	PSCR	282,672	MWh	\$0.00000	0	\$0.00000	0
12	REPS	29,878	Meters	\$0.00000	0	\$0.00000	0
13	Total Full Service Power Supply	282,672	MWh	6.95¢	19,648	7.08¢	20,014
14							
15	Full Service Distribution	Quantity	Units				
16							
17	Service Charge	29,878	Cust.	\$8.50	3,048	\$8.50	3,048
18	Income Assistance	831	Cust.	(\$8.50)	(85)	(\$8.50)	(85)
19	Senior Citizen Provision	702	Cust.	(\$4.25)	(36)	(\$4.25)	(36)
20							
21	Distribution Charge						
22	Summer	85,801	MWh	\$0.08137	6,982	\$0.08962	7,689
23	Winter	196,871	MWh	\$0.08137	16,019	\$0.08962	17,643
24	Distribution System	282,672	MWh	9.17¢	25,928	10.00¢	28,259
25	IRM	282,672	MWh	\$0.000941	266	\$0.000941	266
26	Nuclear Decomm.	282,672	MWh	\$0.000882	249	\$0.000882	249
27	Energy Waste Reduction	282,672	MWh	\$0.002552	721	\$0.002552	721
28	LIEAF	29,878	Cust.	\$0.88	316	\$0.88	316
29	Distribution Surcharges	282,672	MWh	0.55¢	1,552	0.55¢	1,552
30							
31	Total Full Service Distribution	282,672	MWh	9.72¢	27,480	10.55¢	29,811
32	Total Full Service D2	282,672	MWh	16.67¢	47,128	17.63¢	49,825
33							
34	Choice	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
35							
36	Capacity Charges						
37	Summer						
38	First 17 KWH/Day	0	MWh	\$0.01059	0	\$0.02996	0
39	Excess	0	MWh	\$0.01514	0	\$0.04283	0
40	Winter						
41	First 20 KWH/Day	0	MWh	\$0.00624	0	\$0.01765	0
42	Excess	0	MWh	\$0.00244	0	\$0.00690	0
43	Total Capacity				0		0
44							
45	Distribution Charges						
46	Service Charge	0	Cust.	\$8.50	0	\$8.50	0
47	Income Assistance	0	Cust.	(\$8.50)	0	(\$8.50)	0
48	Senior Citizen Provision		Cust.	(\$4.25)	0	(\$4.25)	0
49							
50	Distribution Charge						
51	Summer	0	MWh	\$0.08137	0	\$0.08962	0
52	Winter	0	MWh	\$0.08137	0	\$0.08962	0
53	Distribution System	0	MWh		0		0
54	IRM	0	MWh	\$0.000941	0	\$0.000941	0
55	Nuclear Decomm.	0	MWh	\$0.000882	0	\$0.000882	0
56	Energy Waste Reduction	0	MWh	\$0.002552	0	\$0.002552	0
57	LIEAF	0	Cust.	\$0.88	0	\$0.88	0
58	Distribution Surcharges	0	MWh		0		0
59							
60	Total Choice D2	0	MWh		0		0
61							
62	Total D2	282,672	MWh	16.67¢	47,128	17.63¢	49,825
63	Increase/Decrease (\$)						2,697

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Water Heating Service Rate - Residential D5

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants Quantity Units	(c) Present Rate	(d) Present Revenue (\$000)	(e) Proposed Rate	(f) Proposed Revenue (\$000)
	Full Service Power Supply					
1	Non-Capacity Charge	97,669 MWh	\$0.04132	4,036	\$0.02994	2,925
2	Capacity Charge	97,669 MWh	\$0.00698	682	\$0.01919	1,874
3						
4	PSCR	97,669 MWh	\$0.00000	0	\$0.00000	0
5	Total Full Service Power Supply	97,669 MWh	4.83¢	4,717	4.91¢	4,799
6						
7	Full-Service Distribution					
8						
9	Service Charge	45,020 Cust.	\$1.95	1,053	\$1.95	1,053
10						
11	Distribution Charge	97,669 MWh	\$0.08137	7,947	\$0.08962	8,753
12	Distribution System	97,669 MWh	9.22¢	9,001	10.04¢	9,806
13	IRM	97,669 MWh	\$0.000941	92	\$0.000941	92
14	Nuclear Decomm.	97,669 MWh	\$0.000882	86	\$0.000882	86
15	Energy Waste Reduction	97,669 MWh	\$0.002552	249	\$0.002552	249
16	Distribution Surcharges	97,669 MWh	0.44¢	427	0.44¢	427
17						
18	Total Full Service Distribution	97,669 MWh	9.65¢	9,428	10.48¢	10,233
19	Total Full Service D5	97,669 MWh	14.48¢	14,146	15.39¢	15,033
20						
21	Choice					
22						
23	Capacity Charge	0 MWh	\$0.00698	0	\$0.01919	0
24	Total Capacity	0		0		0
25						
26	Distribution Charges					
27	Service Charge	0 Cust.	\$1.95	0	\$1.95	0
28						
29	Distribution Charge	0 MWh	\$0.08137	0	\$0.08962	0
30	Distribution System	0		0		0
31	IRM	0 MWh	\$0.000941	0	\$0.000941	0
32	Nuclear Decomm.	0 MWh	\$0.000882	0	\$0.000882	0
33	Energy Waste Reduction	0 MWh	\$0.002552	0	\$0.002552	0
34	Distribution Surcharges	0 MWh		0		0
35						
36	Total Choice Distribution D5	0 MWh		0		0
37						
38	Total D5	97,669 MWh	14.48¢	14,146	15.39¢	15,033
39	Increase/Decrease (\$)					887

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Interruptible Space Conditioning Service Rate - Commercial D1.1

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
1	Capacity					
2	Energy					
3	Summer	3,490 MWh	\$0.01049	37	\$0.02885	101
4	Winter	1,662 MWh	\$0.00470	8	\$0.01293	21
5	Non-capacity energy	5,153	\$0.06077	313	\$0.04634	239
6	Power Supply Subtotal	5,153 MWh		358		361
7						
8	PSCR	5,153 MWh	\$0.00000	0	\$0.00000	0
9	REPS	800 Meters	\$0.00	0	\$0.00	0
10	Total Full Service Power Supply	5,153 MWh		6.94¢ 358		7.00¢ 361
11						
12	Full Service Distribution					
13						
14	Service Charge (June-Oct)	800 Cust.	\$1.95	8	\$1.95	8
15						
16	Distribution Charge	5,153 MWh	\$0.05288	272	\$0.05917	305
17	Distribution System	5,153 MWh	5.44¢	280	6.07¢	313
18	IRM	5,153 MWh	\$0.000595	3	\$0.000595	3
19	Nuclear Decomm.	5,153 MWh	\$0.000882	5	\$0.000882	5
20	Energy Waste Reduction	800 Meters	\$5.50	53	\$5.50	53
21	LIEAF	800 Meters	\$0.88	8	\$0.88	8
22	Distribution Surcharges	5,153 MWh	1.34¢	69	1.34¢	69
23						
24	Total Distribution	5,153 MWh		6.78¢ 349		7.41¢ 382
25	Total Full Service D1.1	5,153 MWh		13.71¢ 707		14.41¢ 743
26						
27	Choice Distribution	Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
28						
29	Capacity					
30	Energy					
31	Summer	0 MWh	\$0.01049	0	\$0.02885	0
32	Winter	0 MWh	\$0.00470	0	\$0.01293	0
33						
34	Service Charge (June-Oct)	8 Cust.	\$1.95	0	\$1.95	0
35						
36	Distribution Charge	11 MWh	\$0.05288	1	\$0.05917	1
37	Distribution System	11 MWh	5.99¢	1	6.62¢	1
38	IRM	11 MWh	0.000595	0	0.000595	0
39	Nuclear Decomm.	11 MWh	\$0.000882	0	\$0.000882	0
40	Energy Waste Reduction	8 Meters	\$5.50	1	\$5.50	1
41	LIEAF	8 Meters	\$0.88	0	\$0.88	0
42	Distribution Surcharges	11 MWh	5.64¢	1	5.64¢	1
43						
44	Total Choice D1.1	11 MWh		11.62¢ 1		12.25¢ 1
45						
46	Total D1.1	5,164 MWh		13.71¢ 708		14.41¢ 744
47	Increase/Decrease (\$)					36

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Commercial Geothermal Time of Day (D1.7)

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue	Rate	Revenue
	Full Service Power Supply					
	Capacity Charges			(\$000)		(\$000)
1	Energy					
2	Summer (11 a.m. Peak Start)					
3	On-Peak	1,258 MWh	\$0.00893	11	\$0.01692	21
4	Off-Peak	2,843 MWh	\$0.00464	13	\$0.01546	44
5	Winter (11 a.m. Peak Start)					
6	On-Peak	2,799 MWh	\$0.00572	16	\$0.01583	44
7	Off-Peak	8,489 MWh	\$0.00572	49	\$0.01583	134
8						
9	Non-Capacity Energy	15,388 MWh	\$0.04059	625		
10	Summer (11 a.m. Peak Start)					
11	On-Peak	1,258 MWh			\$0.03307	42
12	Off-Peak	2,843 MWh			\$0.03020	86
13	Winter (11 a.m. Peak Start)					
14	On-Peak	2,799 MWh			\$0.03092	87
15	Off-Peak	8,489 MWh			\$0.03092	262
16	Power Supply Subtotal	15,388 MWh		714		720
17						
18	PSCR	15,388 MWh	\$0.00000	0	\$0.00000	0
19	REPS	198 Meters	\$0.00	0	\$0.00	0
20	Total Full Service Power Supply	15,388 MWh	4.64¢	714	4.68¢	720
21						
22	Full Service Distribution	Quantity Units				
23						
24	Service Charge	198 Cust.	\$0.067	5	\$0.067	5
25						
26	Distribution Charge	15,388 MWh	\$0.05288	814	\$0.05917	911
27	Distribution System	15,388 MWh	5.32¢	819	5.95¢	915
28	IRM	15,388 MWh	\$0.000595	9	\$0.000595	9
29	Nuclear Decomm.	15,388 MWh	\$0.000882	14	\$0.000882	14
30	Energy Waste Reduction	198 Meters	\$5.50	13	\$5.50	13
31	LIEAF	198 Meters	\$0.88	2	\$0.88	2
32	Distribution Surcharges	15,388 MWh	0.25¢	38	0.25¢	38
33						
34	Total Distribution	15,388 MWh	5.57¢	856	6.19¢	953
35	Total Full Service D1.7	15,388 MWh	10.20¢	1,570	10.88¢	1,674
36						
37	Choice Distribution	Quantity Units	Rate	Revenue	Rate	Revenue
38				(\$000)		(\$000)
39	Capacity Charges					
40	Energy					
41	Summer (11 a.m. Peak Start)					
42	On-Peak	MWh	\$0.00893	0	\$0.01692	0
43	Off-Peak	MWh	\$0.00464	0	\$0.01546	0
44	Winter (11 a.m. Peak Start)					
45	On-Peak	MWh	\$0.00572	0	\$0.01583	0
46	Off-Peak	MWh	\$0.00572	0	\$0.01583	0
47						
48	Service Charge	1 Cust.	\$0.067	0	\$0.067	0
49						
50	Distribution Charge	198 MWh	\$0.05288	10	\$0.05917	12
51	Distribution System	198 MWh	5.30¢	11	5.93¢	12
52	IRM	198 MWh	\$0.000595	0	\$0.000595	0
53	Nuclear Decomm.	198 MWh	\$0.000882	0	\$0.000882	0
54	Energy Waste Reduction	1 Meters	\$5.50	0	\$5.50	0
55	LIEAF	1 Meters	\$0.88	0	\$0.88	0
56	Distribution Surcharges	198 MWh	0.19¢	0	0.19¢	0
57						
58	Total Choice D1.7	198 MWh	5.49¢	11	6.12¢	12
59						
60	Total D1.7	15,586 MWh	10.14¢	1,581	10.82¢	1,686
61	Increase/Decrease (\$)					105

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Commercial Dynamic Peak Pricing Rate - D1.8

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d)	(e) Proposed	(f)
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
	Capacity						
1	Energy						
2	Off-Peak (11pm-7am)	460	MWh	\$0.00570	3	\$0.01550	7
3	Mid-Peak (7 pm-11pm, 7am-3pm)	387	MWh	\$0.01119	4	\$0.03045	12
4	On-Peak (3 pm- 7 pm)	125	MWh	\$0.02062	3	\$0.05610	7
5	Critical Peak (3pm-7pm)	0	MWh	\$0.80517	0	\$0.83785	0
6							
7	Non-capacity energy	972	MWh				
8	Off-Peak (11pm-7am)	460	MWh	\$0.04002	18	\$0.03053	14
9	Mid-Peak (7 pm-11pm, 7am-3pm)	387	MWh	\$0.07863	30	\$0.05998	23
10	On-Peak (3 pm- 7 pm)	125	MWh	\$0.14483	18	\$0.11215	14
11	Critical Peak (3pm-7pm)	0	MWh	\$0.14483	0	\$0.11215	0
12	Power Supply Subtotal	972	MWh		77		78
13							
14	PSCR	972	MWh	\$0.00000	0	\$0.00000	0
15	REPS	28	Cust.	\$0.00	0	\$0.00	0
16	Total Full Service Power Supply	972	MWh	7.90¢	77	7.97¢	78
17							
18	Full Service Distribution	Quantity	Units				
19							
20	Service Charge	28	Cust.	\$11.25	4	\$11.25	4
21							
22	Distribution Charge	972	MWh	\$0.05288	51	\$0.05917	58
23	Distribution System	972	MWh	5.68¢	55	6.31¢	61
24	IRM	972	MWh	\$0.000595	1	\$0.000595	1
25	Nuclear Decomm.	972	MWh	\$0.000882	1	\$0.000882	1
26	Energy Waste Reduction	28	Cust.	\$5.50	2	\$5.50	2
27	LIEAF	28	Cust.	\$0.88	0	\$0.88	0
28	Distribution Surcharges	972	MWh	0.37¢	4	0.37¢	4
29	Total Full Service D1.1						
30	Total Full Service Distribution	972	MWh	6.04¢	59	6.67¢	65
31	Total Full Service D1.8	972	MWh	13.94¢	136	14.65¢	142
32	Increase/Decrease (\$)						7

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Commercial Electric Vehicle Rate - D1.9

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
1	Power Supply Charges						
2	Capacity						
3	Option I						
4	On-Peak	105	MWh	\$0.02470	3	\$0.06793	7
5	Off-Peak	237	MWh	\$0.00618	1	\$0.01700	4
6		342	MWh				
7							
8	Non-capacity energy charge						
	On-Peak	105	MWh	\$0.14635	15	\$0.10606	11
	Off-Peak	237	MWh	\$0.03657	9	\$0.02650	6
9							
10	PSCR	342	MWh	\$0.00000	0	\$0.00000	0
11							
12							
13	Total Full Service Power Supply	342	MWh	8.20¢	28	8.34¢	29
14							
15	Full Service Distribution						
16							
17	Option I Service Charge (\$/month)	22	Cust.	\$1.95	1	\$1.95	1
18							
19	Distribution Charge	342	MWh	\$0.08137	28	\$0.08962	31
20	Distribution System	342	MWh	8.29¢	28	9.11¢	31
21	IRM	342	MWh	\$0.000595	0	\$0.000595	0
22	Nuclear Decomm.	342	MWh	\$0.000882	0	\$0.000882	0
23	Energy Waste Reduction	22	Meters	\$5.50	1	\$5.50	1
24	LIEAF	342	Meters	\$0.88	4	\$0.88	4
25	Distribution Surcharges	342	MWh	1.63¢	6	1.63¢	6
26							
27	Total Full Service Distribution	342	MWh	9.92¢	34	10.74¢	37
28	Total Full-Service D1.9	342	MWh	18.12¢	62	19.08¢	65
29							
30	Choice Distribution						
31							
32	Capacity						
33	Option I						
34	On-Peak	0	MWh	\$0.02470	0	\$0.06793	0
35	Off-Peak	0	MWh	\$0.00618	0	\$0.01700	0
36		0	MWh				
37	Option I Service Charge (\$/month)	0	Cust.	\$1.95	0	\$1.95	0
38							
39	Distribution Charge	0	MWh	\$0.08137	0	\$0.08962	0
40	Distribution System	0	MWh		0		0
41	IRM	0	MWh	\$0.000595	0	\$0.000595	0
42	Nuclear Decomm.	0	MWh	\$0.000882	0	\$0.000882	0
43	Energy Waste Reduction	0	Meters	\$5.50	0	\$5.50	0
44	LIEAF	0	Meters	\$0.880000	0	\$0.880000	0
45	Distribution Subtotal	0	MWh		0		0
46							
47							
48	Total Choice D1.9	0	MWh		0		0
49							
50	Total D1.9	342	MWh	18.12¢	62	19.08¢	65
51	Increase/Decrease (\$)						3

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
General Service Rate - D3

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
1	Capacity						
2	Energy	7,457,882	MWh	\$0.01010	75,325	\$0.02770	206,591
3							
4	Non-Capacity						
5	Energy	7,457,882		\$0.07096	529,211	\$0.05413	403,667
6							
7	PSCR	7,457,882	MWh	\$0.00000	0	\$0.00000	0
8	REPS	197,670	Meters	\$0.00	0	\$0.00	0
9	Total Full Service Power Supply	7,457,882	MWh	8.11¢	604,536	8.18¢	610,258
10							
11	Full Service Distribution	Quantity	Units				
12							
13	Service Charge	197,670	Cust.	\$11.25	26,685	\$11.25	26,685
14							
15	Distribution Charge	7,457,882	MWh	\$0.05288	394,373	\$0.05917	441,304
16	Distribution System	7,457,882	MWh	5.65¢	421,058	6.28¢	467,989
17	IRM	7,457,882	MWh	\$0.000595	4,437	\$0.000595	4,437
18	Nuclear Decomm.	7,457,882	MWh	\$0.000882	6,578	\$0.000882	6,578
19	Energy Optimization	197,670	Meters	\$5.50	13,046	\$5.50	13,046
20	LIEAF	197,670	Meters	\$0.88	2,087	\$0.88	2,087
21	Distribution Surcharges	7,457,882	MWh	0.35¢	26,149	0.35¢	26,149
22							
23	Total Full Service Distribution	7,457,882	MWh	6.00¢	447,207	6.63¢	494,138
24	Total Full Service D3	7,457,882	MWh	14.10¢	1,051,743	14.81¢	1,104,397
25							
26	Choice Distribution	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
27							
28	Capacity						
29	Energy	0	MWh	\$0.01010	0	\$0.02770	0
30							
31	Service Charge	1,843	Cust.	\$11.25	249	\$11.25	249
32							
33	Distribution Charge	261,446	MWh	\$0.05288	13,825	\$0.05917	15,471
34	Distribution System	261,446	MWh	5.38¢	14,074	6.01¢	15,719
35	IRM	261,446	MWh	\$0.000595	156	\$0.000595	156
36	Nuclear Decomm.	261,446	MWh	\$0.000882	231	\$0.000882	231
37	Energy Optimization	1,843	Meters	\$5.50	122	\$5.50	122
38	LIEAF	1,843	Meters	\$0.88	19	\$0.88	19
39	Distribution Surcharges	261,446	MWh	0.20¢	527	0.20¢	527
40							
41	Total Choice D3	261,446	MWh	5.58¢	14,601	6.21¢	16,246
42							
43	Total D3	7,719,328	MWh	13.81¢	1,066,344	14.52¢	1,120,643
44	Increase/Decrease (\$)						54,299

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Unmetered General Service Rate - D3.1

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
1	Connected Load	254,666,315	Watts				
2							
3	Capacity						
4	Energy	89,133	MWh	0.00848	756	0.02354	2,098
5							
6	Non-capacity energy	89,133	MWh	0.11247	10,025	0.10517	9,375
7							
8	PSCR	89,133	MWh	0.00000	0	0	0
9	IRM	89,133	MWh	0.000595	53	0.000595	53
10	Nuclear Decommissioning	89,133	MWh	0.000882	79	0.000882	79
11							
12	Energy Waste Reduction	2,300	Meters	5.50	152	5.50	152
13							
14	REPS	2,300	Meters	0.00	0	0.00	0
15							
16	Total D3.1	89,133	MWh		11,064		11,756
	Increase/Decrease (\$)						692

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Secondary Educational Institute - D3.2

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
1	Capacity					
2	Energy	331,944 MWh	\$0.00939	3,117	\$0.02580	8,564
3						
4	Non-capacity energy	331,944 MWh	\$0.06937	23,027	\$0.05335	17,708
5						
6	PSCR	331,944 MWh	\$0.00000	0	\$0.00000	0
7	REPS	1,185 Meters	\$0.00	0	\$0.00	0
8	Total Full Service Power Supply	331,944 MWh	7.88¢	26,144	7.91¢	26,272
9						
10	Full Service Distribution	Quantity Units				
11						
12	Service Charge	1,185 Cust.	\$11.25	160	\$11.25	160
13						
14	Distribution Charge	331,944 MWh	\$0.05288	17,553	\$0.05917	19,642
15	Distribution System	331,944 MWh	5.34¢	17,713	5.97¢	19,802
16	IRM	331,944 MWh	\$0.000595	198	\$0.000595	198
17	Nuclear Decomm.	331,944 MWh	\$0.000882	293	\$0.000882	293
18	Energy Waste Reduction	1,185 Meters	\$5.50	78	\$5.50	78
19	LIEAF	1,185 Meters	\$0.88	13	\$0.88	13
20	Distribution Surcharges	331,944 MWh	0.18¢	581	0.18¢	581
21						
22	Total Full Service Distribution	331,944 MWh	5.51¢	18,294	6.14¢	20,383
23	Total Full Service D3.2	331,944 MWh	13.39¢	44,438	14.06¢	46,655
24						
25	Choice Distribution	Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
26						
27	Capacity					
28	Energy	0 MWh	\$0.00939	0	\$0.02580	0
29						
30	Service Charge	767 Cust.	\$11.25	104	\$11.25	104
31						
32	Distribution Charge	296,801 MWh	\$0.05288	15,695	\$0.05917	17,563
33	Distribution System	296,801 MWh	5.32¢	15,798	5.95¢	17,666
34	IRM	296,801 MWh	\$0.000595	177	\$0.000595	177
35	Nuclear Decomm.	296,801 MWh	\$0.000882	262	\$0.000882	262
36	Energy Waste Reduction	767 Meters	\$5.50	51	\$5.50	51
37	LIEAF	767 Meters	\$0.88	8	\$0.88	8
38	Distribution Surcharges	296,801 MWh	0.00¢	497	0.17¢	497
39						
40	Total Choice D3.2	296,801 MWh	5.49¢	16,296	6.12¢	18,163
41						
42	Total D3.2	628,745 MWh	9.66¢	60,733	10.31¢	64,818
43	Increase/Decrease (\$)					4,085

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Interruptible General Service Rate - D3.3

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
1	Capacity					
2	Energy	54,552 MWh	\$0.00844	460	\$0.02315	1,263
3						
4	Non-capacity energy	54,552 MWh	\$0.05929	3,234	\$0.04523	2,467
5						
6	PSCR	54,552 MWh	\$0.00000	0	\$0.00000	0
7	REPS	64 Meters	\$0.00	0	\$0.00	0
8	Total Full Service Power Supply	54,552 MWh	6.77¢	3,695	6.84¢	3,730
9						
10	Full Service Distribution	Quantity Units				
11						
12	Service Charge	64 Cust.	\$11.25	9	\$11.25	9
13						
14	Distribution Charge	54,552 MWh	\$0.05288	2,885	\$0.05917	3,228
15	Distribution System	54,552 MWh	5.30¢	2,893	5.93¢	3,237
16	IRM	54,552 MWh	\$0.000595	32	\$0.000595	32
17	Nuclear Decomm.	54,552 MWh	\$0.000882	48	\$0.000882	48
18	Energy Waste Reduction	64 Meters	\$5.50	4	\$5.50	4
19	LIEAF	64 Meters	\$0.88	1	\$0.88	1
20	Distribution Surcharges	54,552 MWh	0.16¢	85	0.16¢	85
21						
22	Full Service Distribution	54,552 MWh	5.46¢	2,979	6.09¢	3,322
23	Total Full Service D3.3	54,552 MWh	12.23¢	6,674	12.93¢	7,052
24						
25	Choice Distribution	Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
26						
27	Capacity					
28	Energy	0 MWh	\$0.00844	0	\$0.02315	0
29						
30	Service Charge	4 Cust.	\$11.25	1	\$11.25	1
31						
32	Distribution Charge	7,513 MWh	\$0.05288	397	\$0.05917	445
33	Distribution System	7,513 MWh	5.30¢	398	5.92¢	445
34	IRM	7,513 MWh	0.000595	4	0.000595	4
35	Nuclear Decomm.	7,513 MWh	\$0.000882	7	\$0.000882	7
36	Energy Waste Reduction	4 Meters	\$5.50	0	\$5.50	0
37	LIEAF	4 Meters	\$0.88	0	\$0.88	0
38	Distribution Surcharges	7,513 MWh	0.15¢	11	0.15¢	11
39						
40	Total Choice D3.3	7,513 MWh	5.45¢	409	6.08¢	457
41						
42	Total D3.3	62,065 MWh	11.41¢	7,083	12.10¢	7,508
43	Increase/Decrease (\$)					426

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Company Owned Charging Service - D3.5

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Rate	(d) Revenue (\$000)	(e) Rate	(f) Revenue (\$000)
		Quantity	Units				
1							
2	Non Capacity On Peak (2pm-5pm, M-F)	0	MWh	\$0.07688	0	\$0.07761	0
3	Non Capacity Off Peak	0	MWh	\$0.06843	0	\$0.06908	0
4	PSCR	0	MWh	\$0.00000	0	\$0.00000	0
5	Session Fee						
6	< 200 kW	0	session	\$21.00	0	\$21.00	0
7	> 200 kW	0	session	\$66.00	0	\$66.00	0
8	IRM	0	MWh	0.000595	0	0.000595	0
9	Nuclear Decomm.	0	MWh	0.000882	0	0.000882	0
10	Energy Waste Reduction	0	MWh	0.000000	0	0.000000	0
11	LIEAF	0	MWh	0.000000	0	0.000000	0
12							
13							
14	Total D3.5	0	MWh		0	0.00%	0
	Increase/Decrease (\$)						
							-

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Optional TOU General Service Rate - D3.11
Designed Revenue Neutral to D3

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Proposed D3	(d) Proposed D3	(e) Revenue Neutral Design	(f) Revenue Neutral Design
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
1	Capacity						
2	June - September						
3	On Peak (1pm - 5pm M-F)	620,107	MWh			\$0.04358	27,025
4	Off Peak	2,120,378	MWh			\$0.02599	55,116
5	October - May						
6	On Peak (1pm - 5pm M-F)	1,005,260	MWh			\$0.02781	27,960
7	Off Peak	3,712,137	MWh			\$0.02599	96,491
8							
9	Non-Capacity						
10	June - September						
11	On Peak (1pm - 5pm M-F)	620,107	MWh			\$0.08515	52,805
12	Off Peak	2,120,378	MWh			\$0.05079	107,693
13	October - May						
14	On Peak (1pm - 5pm M-F)	1,005,260	MWh			\$0.05435	54,632
15	Off Peak	3,712,137	MWh			\$0.05079	188,538
16							
17	PSCR	7,457,882	MWh			\$0.00000	0
18	REPS	197,670	Meters			\$0.00	0
19	Total Full Service Power Supply	7,457,882	MWh	8.18¢	610,258	8.18¢	610,258
20							
21	Full Service Distribution	Quantity	Units				
22							
23	Service Charge	197,670	Cust.	\$11.25	26,685	\$11.25	26,685
24							
25	Distribution Charge	7,457,882	MWh	\$0.05917	441,304	\$0.05917	441,304
26	Distribution System	7,457,882	MWh	6.28¢	467,989	6.28¢	467,989
27	IRM	7,457,882	MWh	\$0.000595	4,437	\$0.000595	4,437
28	Nuclear Decomm.	7,457,882	MWh	\$0.000882	6,578	\$0.000882	6,578
29	Energy Optimization	197,670	Meters	\$5.50	13,046	\$5.50	13,046
30	LIEAF	197,670	Meters	\$0.88	2,087	\$0.88	2,087
31	Distribution Surcharges	7,457,882	MWh	0.35¢	26,149	0.35¢	26,149
32							
33	Total Full Service Distribution	7,457,882	MWh	6.63¢	494,138	6.63¢	494,138
34	Total Full Service D3.11	7,457,882	MWh	14.81¢	1,104,397	14.81¢	1,104,397
35							
36	Choice Distribution	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
37							
38	Capacity						
39	June - September						
40	On Peak (1pm - 5pm M-F)	0	MWh			\$0.04358	0
41	Off Peak	0	MWh			\$0.02599	0
42	October - May						
43	On Peak (1pm - 5pm M-F)	0	MWh			\$0.02781	0
44	Off Peak	0	MWh			\$0.02599	0
45							
46	Service Charge	1,843	Cust.	\$11.25	249	\$11.25	249
47							
48	Distribution Charge	261,446	MWh	\$0.05917	15,471	\$0.05917	15,471
49	Distribution System	261,446	MWh	6.01¢	15,719	6.01¢	15,719
50	IRM	261,446	MWh	\$0.000595	156	\$0.000595	156
51	Nuclear Decomm.	261,446	MWh	\$0.000882	231	\$0.000882	231
52	Energy Optimization	1,843	Meters	\$5.50	122	\$5.50	122
53	LIEAF	1,843	Meters	\$0.88	19	\$0.88	19
54	Distribution Surcharges	261,446	MWh	0.20¢	527	0.20¢	527
55							
56	Total Choice D3.11	261,446	MWh	6.21¢	16,246	6.21¢	16,246
57							
58	Total D3.11	7,719,328	MWh	14.52¢	1,120,643	14.52¢	1,120,643
59	Increase/Decrease (\$)						-

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Large General Service Rate - D4

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
1	Capacity					
2	Demand Charge	4,219,890 kW	\$3.57	15,065	\$9.76	41,180
3	Energy					
4	First 200 Hrs. Use	853,413 MWh	\$0.00000	0	\$0.00000	0
5	Excess	885,101 MWh	\$0.00000	0	\$0.00000	0
6	Power Supply Subtotal	1,738,514 MWh		15,065		41,180
7						
8	Non-capacity					
9	Demand Charge	4,219,890 kW	13.02	54,943	\$6.92	29,201
10	Energy					
11	First 200 Hrs. Use	853,413 MWh	0.04012	34,239	\$0.04033	34,421
12	Excess	885,101 MWh	0.03097	27,412	\$0.03113	27,558
13	PSCR	1,738,514 MWh	\$0.00000	0	\$0.00000	0
14	REPS	7,791 Meters	\$0.00	0	\$0.00	0
15	Total Full Service Power Supply	1,738,514 MWh		7.57¢ 131,658		7.61¢ 132,359
16						
17	Full Service Distribution	Quantity Units				
18						
19	Service Charge	7,791 Cust.	\$13.67	1,278	\$13.67	1,278
20						
21	Distribution Demand Charge	4,219,890 kW	\$21.80	91,994	\$24.23	102,250
22	Distribution Energy Charge	1,738,514 MWh	\$0.000000	0	\$0.000000	0
23	Distribution Charges	1,738,514 MWh		5.37¢ 93,272		5.95¢ 103,528
24	IRM	4,219,890 kW	\$0.2454	1,036	\$0.2454	1,036
25	Nuclear Decomm.	1,738,514 MWh	\$0.000882	1,533	\$0.000882	1,533
26	Energy Waste Reduction	7,791 Meters	\$140.21	13,109	\$140.21	13,109
27	LIEAF	7,791 Meters	\$0.88	82	\$0.88	82
28	Distribution Surcharges	1,738,514 MWh		0.91¢ 15,760		0.91¢ 15,760
29						
30	Total Full Service Distribution	1,738,514 MWh		6.27¢ 109,031		6.86¢ 119,287
31	Total Full Service D4	1,738,514 MWh		13.84¢ 240,690		14.47¢ 251,647
32						
33	Choice Distribution	Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
34						
35	Capacity					
36	Demand Charge	0 kW	\$3.57	0	\$9.76	0
37	Energy					
38	First 200 Hrs. Use	0 MWh	\$0.00000	0	\$0.00000	0
39	Excess	0 MWh	\$0.00000	0	\$0.00000	0
40						
41	Service Charge	773 Cust.	\$13.67	127	\$13.67	127
42						
43	Distribution Demand Charge	647,797 kW	\$21.80	14,122	\$24.23	15,696
44	Distribution Energy Charge	254,735 MWh	\$0.00000	0	\$0.00000	0
45	Distribution System	254,735 MWh		5.59¢ 14,249		6.21¢ 15,823
46	IRM	647,797 kW	\$0.2454	159	\$0.2454	159
47	Nuclear Decomm.	254,735 MWh	\$0.000882	225	\$0.000882	225
48	Energy Waste Reduction	773 Meters	\$140.21	1,301	\$140.21	1,301
49	LIEAF	773 Meters	\$0.88	8	\$0.88	8
50	Distribution Surcharges	254,735 MWh		0.66¢ 1,692		0.66¢ 1,692
51						
52	Total Choice D4	254,735 MWh		6.26¢ 15,941		6.88¢ 17,516
53						
54	Total D4	1,993,249 MWh		12.88¢ 256,631		13.50¢ 269,162
55	Increase/Decrease (\$)					12,531

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Water Heating Service Rate - Commercial D5

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
Page: 24 of 58

Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
1	Capacity					
2	Energy	9,881 MWh	\$0.00595	59	\$0.01631	161
3						
4	Non-capacity energy	9,881 MWh	\$0.04178	413	\$0.03187	315
5						
6	PSCR	9,881 MWh	\$0.00000	0	\$0.00000	0
7	REPS	764 Meters	\$0.00	0	\$0.00	0
8	Total Full Service Power Supply	9,881 MWh	4.77¢	472	4.82¢	476
9						
10	Full Service Distribution	Quantity Units				
11						
12	Service Charge	764 Cust.	\$1.95	18	\$1.95	18
13						
14	Distribution Charge	9,881 MWh	\$0.05288	523	\$0.05917	585
15	Distribution System	9,881 MWh	5.47¢	540	6.10¢	603
16	IRM	9,881 MWh	\$0.000595	6	\$0.000595	6
17	Nuclear Decomm.	9,881 MWh	\$0.000882	9	\$0.000882	9
18	Energy Waste Reduction	764 Meters	\$5.50	50	\$5.50	50
19	LIEAF	764 Meters	\$0.88	8	\$0.88	8
20	Distribution Surcharges	9,881 MWh	0.74¢	73	0.74¢	73
21						
22	Total Full Service Distribution	9,881 MWh	6.21¢	613	6.84¢	676
23	Total Full Service D5	9,881 MWh	10.98¢	1,085	11.66¢	1,152
24						
25	Choice Distribution	Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
26						
27	Capacity					
28	Energy	0 MWh	\$0.00595	0	\$0.01631	0
29						
30	Service Charge	1 Cust.	\$1.95	0	\$1.95	0
31						
32	Distribution Charge	4 MWh	\$0.05288	0	\$0.05917	0
33	Distribution System	4 MWh	5.81¢	0	6.44¢	0
34	IRM	4 MWh	\$0.000595	0	\$0.000595	0
35	Nuclear Decomm.	4 MWh	\$0.000882	0	\$0.000882	0
36	Energy Waste Reduction	1 Meters	\$5.50	0	\$5.50	0
37	LIEAF	1 Meters	\$0.88	0	\$0.88	0
38	Distribution Surcharges	4 MWh	1.87¢	0	1.87¢	0
39						
40	Total Choice D5	4 MWh	7.69¢	0	8.32¢	0
41						
42	Total D5	9,886 MWh	10.98¢	1,085	11.65¢	1,152
43	Increase/Decrease (\$)					67

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Energy Only Street Lighting E1.1

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
Page: 25 of 58

Line No.	(a) Description	(b) Billing Determinants Quantity Units	(c) Present Rate	(d) Present Revenue (\$000)	(e) Proposed Rate	(f) Proposed Revenue (\$000)
	Full Service Power Supply					
1	Capacity					
2	Energy					
3	Secondary	10,251 MWh	\$0.00692	71	\$0.01906	195
4	Dusk to Midnight	4 MWh	\$0.03023	0	\$0.08326	0
5	Primary Energy	0 MWh	\$0.00692	0	\$0.01906	0
6						
7	Non-capacity charge	10,256	\$0.04892	502	\$0.03729	382
8	Power Supply Subtotal	10,256 MWh	5.58¢	573	5.64¢	578
9						
10	PSCR	10,256 MWh	\$0.00000	0	\$0.00000	0
11	REPS	279 Meters	\$0.00	0	\$0.00	0
12	Total Full Service Power Supply	10,256 MWh	5.58¢	573	5.64¢	578
13						
14	Full Service Distribution					
15						
16	Distribution Charge	10,256 MWh	\$0.05288	542	\$0.05917	607
17	Distribution System	10,256 MWh	5.29¢	542	5.92¢	607
18	IRM	10,256 MWh	\$0.000595	6	\$0.000595	6
19	Nuclear Decomm.	10,256 MWh	\$0.000882	9	\$0.000882	9
20	Energy Waste Reduction	279 Meters	\$5.50	18	\$5.50	18
21	LIEAF	279 Meters	\$0.88	3	\$0.88	3
22	Distribution Surcharges	10,256 MWh	0.36¢	36	0.36¢	36
23						
24	Total Distribution	10,256 MWh	5.64¢	579	6.27¢	643
25	Total Full Service E1.1	10,256 MWh	11.23¢	1,152	11.91¢	1,222
26						
27	Choice Distribution	Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
28						
29	Capacity					
30	Energy					
31	Secondary	0 MWh	\$0.00692	0	\$0.01906	0
32	Dusk to Midnight	0 MWh	\$0.03023	0	\$0.08326	0
33	Primary Energy	0 MWh	\$0.00692	0	\$0.01906	0
34						
35	Distribution Charge	0 MWh	\$0.05288	0	\$0.05917	0
36	Distribution System	0 MWh	0	0	0	0
37	IRM	0 MWh	\$0.000595	0	\$0.000595	0
38	Nuclear Decomm.	0 MWh	\$0.000882	0	\$0.000882	0
39	Energy Waste Reduction	0 Meters	\$5.50	0	\$5.50	0
40	LIEAF	0 Meters	\$0.88	0	\$0.88	0
41	Distribution Surcharges	0 MWh	0	0	0	0
42						
43	Total Choice E1.1	0 MWh	0	0	0	0
44						
45	Total E1.1	10,256 MWh	11.23¢	1,152	11.91¢	1,222
46	Increase/Decrease (\$)					70

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Greenhouse Lighting Service Rate - Standard Contract Rider No. R7

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
1	Capacity						
2	Energy	4,153	MWh	\$0.00577	24	\$0.01583	66
3							
4	Non-capacity						
5	Energy	4,153	MWh	\$0.04054	168	\$0.03092	128
6							
7	PSCR	4,153	MWh	\$0.00000	0	\$0.00000	0
8	REPS	9	Meters	\$0.00	0	\$0.00	0
9	Total Full Service Power Supply	4,153	MWh	4.63¢	192	4.67¢	194
10							
11	Full Service Distribution	Quantity	Units				
12							
13	Service Charge	9	Cust.	\$1.95	0	\$1.95	0
14							
15	Distribution Charge	4,153	MWh	\$0.05288	220	\$0.05917	246
16	Distribution System	4,153	MWh	5.29¢	220	5.92¢	246
17	IRM	4,153	MWh	\$0.000595	2	\$0.000595	2
18	Nuclear Decomm.	4,153	MWh	\$0.000882	4	\$0.000882	4
19	Energy Waste Reduction	9	Meters	\$5.50	1	\$5.50	1
20	LIEAF	9	Meters	\$0.88	0	\$0.88	0
21	Distribution Surcharges	4,153	MWh	0.16¢	7	0.16¢	7
22							
23	Total Distribution	4,153	MWh	5.46¢	227	6.09¢	253
24	Total Full Service R7	4,153	MWh	10.09¢	419	10.76¢	447
25							
26	Choice Distribution	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
27							
28	Capacity						
29	Energy	0	MWh	\$0.00577	0	\$0.01583	0
30							
31	Service Charge	0	Cust.	\$1.95	0	\$1.95	0
32							
33	Distribution Charge	0	MWh	\$0.05288	0	\$0.05917	0
34	Distribution System	0	MWh	0	0	0	0
35	IRM	0	MWh	\$0.000595	0	\$0.000595	0
36	Nuclear Decomm.	0	MWh	\$0.000882	0	\$0.000882	0
37	Energy Waste Reduction	0	Meters	\$5.50	0	\$5.50	0
38	LIEAF	0	Meters	\$0.88	0	\$0.88	0
39	Distribution Surcharges	0	MWh	0	0	0	0
40							
41	Total Choice R7	0	MWh	0	0	0	0
42							
43	Total R7	4,153	MWh	10.09¢	419	10.76¢	447
44	Increase/Decrease (\$)						28

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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	(a)	(b)	(c)	(d)	(e)	(f)		
	Description		Billing Determinants		Present		Proposed	
	Full Service Power Supply	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)	
1	Capacity							
2	Energy							
3	Summer June-Oct							
4	R8 All KWH- Separate Meter	18,111	MWh	\$0.01539	279	\$0.04268	773	
5	R8a initial Block of D3	1,429	MWh	\$0.01010	14	\$0.02770	40	
6	R8a Excess	444	MWh	\$0.01539	7	\$0.04268	19	
7								
8	Winter Nov-May							
9	R8 First 1000 KWH- Sep Mtr	5,018	MWh	\$0.01539	77	\$0.04268	214	
10	R8 Excess	33,771	MWh	\$0.00510	172	\$0.01414	478	
11								
12	R8a initial Block of D3	2,614	MWh	\$0.01010	26	\$0.02770	72	
13	Excess	11,955	MWh	\$0.00510	61	\$0.01414	169	
14								
15	Non-capacity Charge	73,342	MWh	\$0.06173	4,527	\$0.04702	3,448	
16	Power Supply Subtotal	73,342	MWh		5,164		5,213	
17								
18	PSCR	73,342	MWh	\$0.00000	0	\$0.00000	0	
19	REPS	1,678	Meters	\$0.00	0	\$0.00	0	
20	Total Full Service Power Supply	73,342	MWh	7.04¢	5,164	7.11¢	5,213	
21								
22	Full Service Distribution	Quantity	Units					
23								
24	Service Charge							
25	R8 Separate Meter	1,066	Cust.	\$11.25	144	\$11.25	144	
26	R8a	612	Cust.	\$11.25	83	\$11.25	83	
27								
28	Distribution Charge	73,342	MWh	\$0.05288	3,878	\$0.05917	4,340	
29	Distribution System	73,342	MWh	5.60¢	4,105	6.23¢	4,566	
30	IRM	73,342	MWh	\$0.000595	44	\$0.000595	44	
31	Nuclear Decomm.	73,342	MWh	\$0.000882	65	\$0.000882	65	
32	Energy Waste Reduction	1,066	Meters	\$5.50	\$70	\$5.50	70	
33	LIEAF	1,066	Meters	\$0.88	11	\$0.88	11	
34	Distribution Surcharges	73,342	MWh	0.26¢	190	0.26¢	190	
35								
36	Total Distribution	73,342	MWh	5.86¢	4,295	6.49¢	4,756	
37	Total Full Service R8	73,342	MWh	12.90¢	9,459	13.59¢	9,969	
38								
39	Choice Distribution	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)	
40								
41	Capacity							
42	Energy							
43								
44	R8 All KWH- Separate Meter	0	MWh	\$0.01539	0	\$0.04268	0	
45	R8a initial Block of D3	0	MWh	\$0.01010	0	\$0.02770	0	
46	R8a Excess	0	MWh	\$0.01539	0	\$0.04268	0	
47								
48	Winter Nov-May							
49	R8 First 1000 KWH- Sep Mtr	0	MWh	\$0.01539	0	\$0.04268	0	
50	R8 Excess	0	MWh	\$0.00510	0	\$0.01414	0	
51								
52	R8a initial Block of D3	0	MWh	\$0.01010	0	\$0.02770	0	
53	Excess	0	MWh	\$0.00510	0	\$0.01414	0	
54								
55	Service Charge							
56	R8 Separate Meter	14	Cust.	\$11.25	2	\$11.25	2	
57	R8a	0	Cust.	\$11.25	0	\$11.25	0	
58								
59	Distribution Charge	1,371	MWh	\$0.05288	73	\$0.05917	81	
60	Distribution System	1,371	MWh	5.43¢	74	6.06¢	83	
61	IRM	1,371	MWh	\$0.000595	1	\$0.000595	1	
62	Nuclear Decomm.	1,371	MWh	\$0.000882	1	\$0.000882	1	
63	Energy Waste Reduction	14	Meters	\$5.50	1	\$5.50	1	
64	LIEAF	14	Meters	\$0.88	0	\$0.88	0	
65	Distribution Surcharges	1,371	MWh	0.23¢	3	0.23¢	3	
66								
67	Total Choice R8	1,371	MWh	5.65¢	78	6.28¢	86	
68								
69	Total R8	74,713	MWh	12.76¢	9,537	13.46¢	10,056	
70	Increase/Decrease (\$)						51	

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Primary Supply Rate - D11
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
	Capacity					
1	Power Supply Demand	21,460,521 kW	3.56	76,399	9.77	209,642
2	<u>Voltage Level Discount</u>					
3	Subtransmission	2,259,951 kW	(0.07)	(158)	(0.20)	(449)
4	Transmission	6,643,543 kW	(0.15)	(997)	(0.41)	(2,736)
5						
6	<u>Energy</u>					
7	On-Peak	2,894,545 MWh		0		0
8	Off-Peak	8,610,839 MWh		0		0
9	Total Energy	11,505,383 MWh				
10						
11	<u>Voltage Level Discount</u>					
12	Subtransmission	1,298,106 MWh	0.00000	0	0.00000	0
13	Transmission	4,354,860 MWh	0.00000	0	0.00000	0
14	Total Capacity	11,505,383 MWh		75,245		206,457
15						
16	Non-Capacity					
17	Power Supply Demand	21,460,521 kW	13.33	286,069	7.24	155,311
18	<u>Voltage Level Adjustment</u>					
19	Subtransmission	2,259,951 kW	(0.24)	(542)	(0.15)	(332)
20	Transmission	6,643,543 kW	(0.53)	(3,521)	(0.31)	(2,027)
21	<u>Energy</u>					
22	On-Peak	2,894,545 MWh	0.04257	123,221	0.04278	123,839
23	Off-Peak	8,610,839 MWh	0.03257	280,455	0.03278	282,295
24	<u>Voltage Level Discount</u>					
25	Subtransmission	1,298,106 MWh	(0.00062)	(805)	(0.00062)	(811)
26	Transmission	4,354,860 MWh	(0.00138)	(6,010)	(0.00139)	(6,057)
27	Power Supply Subtotal	11,505,383 MWh		754,111		758,675
28						
29	PSCR	11,505,383 MWh	0.00000	0	0.00000	0
30	REPS	2,079 Cust.	0.0	0	0.0	0
31	Total Full Service Power Supply	11,505,383 MWh	6.55¢	754,111	6.59¢	758,675
32						
33	Full Service Distribution	Quantity Units				
34						
35	Service Charge - PV	1,949 Cust.	70	1,637	70	1,637
36	Service Charge - SV	70 Cust.	375	315	375	315
37	Service Charge - TV	60 Cust.	375	270	375	270
38	<u>Distribution Charges</u>					
39	Primary	15,679,728 kW	6.15	96,430	6.36	99,766
40		5,852,418 MWh				
41	Subtransmission	3,118,737 kW	1.96	6,113	1.74	5,433
42		1,298,106 MWh				
43	Transmission	8,008,087 kW	0.86	6,887	0.94	7,550
44		4,354,860 MWh				
45	<u>Substation Credit</u>					
46	Demand	3,035,972 kW	(0.30)	(911)	(0.30)	(911)
47	Energy	181,296 MWh	(0.0004)	(73)	(0.0004)	(73)
48	Distribution System	11,505,383 MWh	0.96¢	110,668	0.99¢	113,987
49						
50	IRM - PV	15,679,728 kW	0.0727	1,140	0.0727	1,140
51	IRM - SV	3,118,737 kW	0.0312	97	0.0312	97
52	IRM - TV	8,008,087 kW	0.0000	0	0.0000	0
53	Nuclear Decommissioning	11,505,383 MWh	0.000882	10,148	0.000882	10,148
54	Energy Waste Reduction	2,463 Meters	1,237.99	36,597	1,237.99	36,597
55	LIEAF	2,463 Meters	0.88	26	0.88	26
56	Distribution Surcharges	11,505,383 MWh	0.42¢	48,008	0.42¢	48,008
57						
58	Total Full Service Distribution	11,505,383 MWh	1.38¢	158,676	1.41¢	161,995
59	Total Full Service D11	11,505,383 MWh	7.93¢	912,788	8.00¢	920,670

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Primary Supply Rate - D11 (Cont'd)
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants Quantity Units	(c) Present Rate	(d) Present Revenue (\$000)	(e) Proposed Rate	(f) Proposed Revenue (\$000)
60	Choice Distribution					
61	Capacity					
62	Power Supply Demand	0 kW	3.56	0	9.77	0
63	<u>Voltage Level Discount</u>					
64	Subtransmission	0 kW	(0.07)	0	(0.20)	0
65	Transmission	0 kW	(0.15)	0	(0.41)	0
66						
67	<u>Energy</u>					
68	On-Peak	0 MWh	0.00000	0	0.00000	0
69	Off-Peak	0 MWh	0.00000	0	0.00000	0
70	Total Energy	0 MWh				
71						
72	<u>Voltage Level Discount</u>					
73	Subtransmission	0 MWh	0.00000	0	0.00000	0
74	Transmission	0 MWh	0.00000	0	0.00000	0
75	Total Capacity	0 MWh		0		0
76						
77	Service Charge - PV	530 Cust.	70	445	70	445
78	Service Charge - SV	11 Cust.	375	50	375	50
79	Service Charge - TV	8 Cust.	375	34	375	34
80	<u>Distribution Charges</u>					
81	Primary	5,033,729 kW	6.15	30,957	6.36	32,028
82		2,011,974 MWh				
83	Subtransmission	558,645 kW	1.96	1,095	1.74	973
84		204,630 MWh				
85	Transmission	2,289,408 kW	0.86	1,969	0.94	2,159
86		831,189 MWh				
87	Substation Credit					
88	Demand	1,797,568 kW	(0.30)	(539)	(0.30)	(539)
89	Energy	41,020 MWh	(0.0004)	(16)	(0.0004)	(16)
90	Distribution System	3,047,793 MWh	1.12¢	33,995	1.15¢	35,133
91						
92	IRM - PV	5,033,729 kW	0.0727	366	0.0727	366
93	IRM - SV	558,645 kW	0.0312	17	0.0312	17
94	IRM - TV	2,289,408 kW	0	0	0	0
95	Nuclear Decommissioning	3,047,793 MWh	0.000882	2,688	0.000882	2,688
96	Energy Waste Reduction	631 Meters	1,237.99	9,367	1,237.99	9,367
97	LIEAF	631 Meters	0.88	7	0.88	7
98	Distribution Surcharges	3,047,793 MWh	0.41¢	12,446	0.41¢	12,446
99						
100	Total Choice D11	3,047,793 MWh	1.52¢	46,440	1.56¢	47,579
101						
102	Total D11	14,553,177 MWh	6.59¢	959,228	6.65¢	968,249
103	Increase/Decrease (\$)					9,021

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Primary Educational Institute - D6.2
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
1	Capacity					
2	Power Supply Demand	1,641,257 kW	3.58	5,876	11.47	18,826
3	Voltage Level Adjustment					
4	Subtransmission	783,019 kW	(0.07)	(55)	(0.23)	(183)
5	Transmission	0 kW	(0.15)	0	(0.48)	0
6						
7	Energy					
8	On-Peak	195,100 MWh	0.00000	0	0.00000	0
9	Off-Peak	503,918 MWh	0.00000	0	0.00000	0
10	Total Energy	699,018 MWh				
11						
12	Voltage Level Discount					
13	Subtransmission	326,833 MWh	0.00000	0	0.00000	0
14	Transmission	0 MWh	0.00000	0	0.00000	0
15	Total Capacity	699,018 MWh		5,821		18,643
16						
17	Non-Capacity					
18	Power Supply Demand	1,641,257 kW	10.04	16,478	3.33	5,463
19	Voltage Level Adjustment					
20	Subtransmission	783,019 kW	(0.18)	(141)	(0.07)	(53)
21	Transmission	0 kW	(0.40)	0	(0.14)	0
22						
23						
24	Energy					
25	On-Peak	195,100 MWh	0.04322	8,432	0.04673	9,117
26	Off-Peak	503,918 MWh	0.04022	20,268	0.04373	22,036
27	Voltage Level Discount					
28	Subtransmission	326,833 MWh	(0.00073)	(239)	(0.00079)	(258)
29	Transmission	0 MWh	(0.00162)	0	(0.00176)	0
30	Power Supply Subtotal	699,018 MWh		50,619		54,948
31						
32	PSCR	699,018 MWh	0.00000	0	0.00000	0
33	REPS	123 Cust.	0.0	0	0.0	0
34	Total Full Service Power Supply	699,018 MWh	7.24¢	50,619	7.86¢	54,948
35						
36	Full Service Distribution	Quantity Units				
37						
38	Service Charge - PV	117 Cust.	70	98	70	98
39	Service Charge - SV	6 Cust.	375	27	375	27
40	Service Charge - TV	0 Cust.	375	0	375	0
41	Distribution Charges					
42	Primary	1,127,347 kW	6.15	6,933	6.36	7,173
43		372,184 MWh				
44	Subtransmission	999,979 kW	1.96	1,960	1.74	1,742
45		326,833 MWh				
46	Transmission	0 kW	0.86	0	0.94	0
47		0 MWh				
48	Substation Credit					
49	Demand	13,544 kW	(0.30)	(4)	(0.30)	(4)
50	Energy	0 MWh	(0.0004)	(0)	(0.0004)	(0)
51	Distribution System	699,018 MWh	1.29¢	9,014	1.29¢	9,036
52						
53	IRM - PV	1,127,347 kW	0.0727	82	0.0727	82
54	IRM - SV	999,979 kW	0.0312	31	0.0312	31
52	IRM - TV	0 kW	0	0	0	0
53	Nuclear Decommissioning	699,018 MWh	0.000882	617	0.000882	617
54	Energy Waste Reduction	146 Meters	1,237.99	2,169	1,237.99	2,169
55	LIEAF	146 Meters	0.88	2	0.88	2
56	Distribution Surcharges	699,018 MWh	0.41¢	2,900	0.41¢	2,900
57						
58	Total Full Service Distribution	699,018 MWh	1.70¢	11,915	1.71¢	11,936
59	Total Full Service D6.2	699,018 MWh	8.95¢	62,534	9.57¢	66,884

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Primary Educational Institute - D6.2 (Cont'd)
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
60	Choice Distribution						
61	Capacity						
62	Power Supply Demand		kW	3.58	0	11.47	0
63							
64	Energy						
65	On-Peak		MWh	0.00000	0	0.00000	0
66	Off-Peak		MWh	0.00000	0	0.00000	0
67	Total Energy		MWh				
68							
69	Voltage Level Adjustment						
70	Subtransmission		kW	(0.07)	0	(0.23)	0
71	Transmission		kW	(0.15)	0	(0.48)	0
72	Total Capacity						0
73							
74	Service Charge - PV	153	Cust.	70	129	70	129
75	Service Charge - SV	0	Cust.	375	0	375	0
76	Service Charge - TV	0	Cust.	375	0	375	0
77	Distribution Charges						
78	Primary	1,528,071	kW	6.15	9,398	6.36	9,723
79		394,774	MWh				
80	Subtransmission	0	kW	1.96	0	1.74	0
81		0	MWh				
82	Transmission	0	kW	0.86	0	0.94	0
83		0	MWh				
84	Substation Credit						
85	Demand	0	kW	(0.30)	0	(0.30)	0
86	Energy	0	MWh	(0.0004)	0	(0.0004)	0
87	Distribution System	394,774	MWh	2.41¢	9,526	2.50¢	9,851
88							
89	IRM - PV	1,528,071	kW	0.0727	111	0.0727	111
90	IRM - SV	0	kW	0.0312	0	0.0312	0
91	IRM - TV	0	kW	0	0	0	0
92	Nuclear Decommissioning	394,774	MWh	0.000882	348	0.000882	348
93	Energy Waste Reduction	156	Meters	1,237.99	2,314	1,237.99	2,314
94	LIEAF	156	Meters	0.88	2	0.88	2
95	Distribution Surcharges	394,774	MWh	0.70¢	2,775	0.70¢	2,775
96							
97	Total Choice D6.2	394,774	MWh	3.12¢	12,301	3.20¢	12,626
98							
99	Total D6.2	1,093,792	MWh	6.84¢	74,835	7.27¢	79,510
100	Increase/Decrease (\$)						4,675

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Interruptible Supply Rate - D8
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
	Capacity					
1	Power Supply Demand	941,965 kW	1.62	1,526	4.51	4,246
2	<u>Voltage Level Adjustment</u>					
3	Subtransmission	112,036 kW	(0.03)	(3)	(0.09)	(10)
4	Transmission	153,588 kW	(0.07)	(11)	(0.19)	(29)
5						
6	Product Protection Demand	135,807 kW	3.56	483	9.77	1,327
7	<u>Voltage Level Adjustment</u>					
8	Subtransmission	8,292 kW	(0.07)	(1)	(0.20)	(2)
9	Transmission	65,050 kW	(0.15)	(10)	(0.41)	(27)
10						
11	<u>Energy</u>					
12	On-Peak	135,663 MWh	0.00000	0	0.00000	0
13	Off-Peak	374,067 MWh	0.00000	0	0.00000	0
14	Total Energy	509,730 MWh				
15						
16	<u>Voltage Level Discount</u>					
17	Subtransmission	62,933 MWh	0.00000	0	0.00000	0
18	Transmission	125,103 MWh	0.00000	0	0.00000	0
19	Total Capacity	509,730 MWh		1,985		5,505
20						
21	Non-Capacity					
22	Power Supply Demand	941,965 kW	8.50	8,007	5.62	5,289
23	<u>Voltage Level Adjustment</u>					
24	Subtransmission	112,036 kW	(0.15)	(17)	(0.11)	(13)
25	Transmission	153,588 kW	(0.33)	(51)	(0.24)	(36)
26						
27	Product Protection Demand	135,807 kW	13.33	1,810	7.24	983
28	<u>Voltage Level Discount</u>					
29	Subtransmission	8,292 kW	(0.24)	(2)	(0.15)	(1)
30	Transmission	65,050 kW	(0.53)	(34)	(0.31)	(20)
31						
32	<u>Energy</u>					
33	On-Peak	135,663 MWh	0.04257	5,775	0.04278	5,804
34	Off-Peak	374,067 MWh	0.03257	12,183	0.03278	12,263
35	<u>Voltage Level Discount</u>					
36	Subtransmission	62,933 MWh	(0.00062)	(39)	(0.00062)	(39)
37	Transmission	125,103 MWh	(0.00138)	(173)	(0.00139)	(174)
38	Power Supply Subtotal	509,730 MWh		29,445		29,561
39						
40	PSCR	509,730 MWh	0.00000	0	0.00000	0
41	REPS	125 Cust.	0.00	0	0.00	0
42	Total Full Service Power Supply	509,730 MWh	5.78¢	29,445	5.80¢	29,561
43						
44	Full Service Distribution	Quantity Units				
45						
46	Service Charge - PV	119 Cust.	70	100	70	100
47	Service Charge - SV	4 Cust.	375	18	375	18
48	Service Charge - TV	2 Cust.	375	9	375	9
49	<u>Distribution Charges</u>					
50	Primary	880,229 kW	6.15	5,413	6.36	5,601
51		321,694 MWh				
52	Subtransmission	129,679 kW	1.96	254	1.74	226
53		62,933 MWh				
54	Transmission	277,821 kW	0.86	239	0.94	262
55		125,103 MWh				
56	<u>Substation Credit</u>					
57	Demand	268,469 kW	(0.30)	(81)	(0.30)	(81)
58	Energy	0 MWh	(0.0004)	0	(0.0004)	0
59	Distribution System	509,730 MWh	1.17¢	5,953	1.20¢	6,135
60						
61	IRM - PV	880,229 kW	0.0727	64	0.0727	64
62	IRM - SV	129,679 kW	0.0312	4	0.0312	4
63	IRM - TV	277,821 kW	0	0	0	0
64	Nuclear Decommissioning	509,730 MWh	0.000882	450	0.000882	450
65	Energy Waste Reduction	133 Meters	1,237.99	1,979	1,237.99	1,979
66	LIEAF	133 Meters	0.88	1	0.88	1
67	Distribution Surcharges	509,730	0.49¢	2,498	0.49¢	2,498
68						
69	Total Full Service Distribution	509,730 MWh	1.66¢	8,451	1.69¢	8,633
70	Total Full Service D8	509,730 MWh	7.43¢	37,896	7.49¢	38,194

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Interruptible Supply Rate - D8 (Cont'd)
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d)	(e) Proposed	(f)
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
71	Choice Distribution						
72	Capacity						
73	Power Supply Demand	0	kW	1.62	0	4.51	0
74	<u>Voltage Level Discount</u>						
75	Subtransmission	0	kW	(0.03)	0	(0.09)	0
76	Transmission	0	kW	(0.07)	0	(0.19)	0
77							
78	Product Protection Demand	0	kW	3.56	0	9.77	0
79	<u>Voltage Level Discount</u>						
80	Subtransmission	0	kW	(0.07)	0	(0.20)	0
81	Transmission	0	kW	(0.15)	0	(0.41)	0
82							
83	<u>Energy</u>						
84	On-Peak	0	MWh	0.00000	0	0.00000	0
85	Off-Peak	0	MWh	0.00000	0	0.00000	0
86	Total Energy	0	MWh				
87							
88	<u>Voltage Level Discount</u>						
89	Subtransmission	0	MWh	0.00000	0	0.00000	0
90	Transmission	0	MWh	0.00000	0	0.00000	0
91	Total Capacity	0	MWh				0
92							
93	Service Charge - PV	10	Cust.	70	8	70	8
94	Service Charge - SV	2	Cust.	375	9	375	9
95	Service Charge - TV	0	Cust.	375	0	375	0
96	<u>Distribution Charges</u>						
97	Primary	226,275	kW	6.15	1,392	6.36	1,440
98		110,144	MWh				
99	Subtransmission	66,324	kW	1.96	130	1.74	116
100		23,118	MWh				
101	Transmission	0	kW	0.86	0	0.94	0
102		0	MWh				
103	<u>Substation Credit</u>						
104	Demand	0	kW	(0.30)	0	(0.30)	0
105	Energy	0	MWh	(0.0004)	0	(0.0004)	0
106	Distribution System	133,261	MWh	1.15¢	1,539	1.18¢	1,573
107							
108	IRM - PV	226,275	kW	0.072700	16	0.072700	16
109	IRM - SV	66,324	kW	0.031200	2	0.031200	2
110	IRM - TV	0	kW	0.000000	0	0.000000	0
111	Nuclear Decommissioning	133,261	MWh	0.000882	118	0.000882	118
112	Energy Waste Reduction	16	Meters	1,237.99	233	1,237.99	233
113	LIEAF	16	Meters	0.88	0	0.88	0
114	Distribution Surcharges	133,261	MWh	0.28¢	370	0.28¢	370
115							
116	Total Choice D8	133,261	MWh	1.43¢	1,909	1.46¢	1,942
117							
118	Total D8	642,991	MWh	6.19¢	39,805	6.24¢	40,137
119	Increase/Decrease (\$)						332

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
All Electric School Building Rate - D10
Primary Voltage

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
	Capacity						
1	Energy						
2	Energy -- Winter	14,018	MWh	0.00094	13	0.01579	221
3	Energy -- Summer	6,872	MWh	0.02107	145	0.03592	247
4	Total Capacity	20,890	MWh		158		468
5							
6	Non-Capacity						
7	Energy	20,890	MWh	0.07430	1,552	0.05994	1,252
8	Power Supply Subtotal						
9							
10	PSCR	20,890	MWh	0.00000	0	0.00000	0
11	REPS	19	Cust.	0.00	0	0.00	0
12	Total Full Service Power Supply	20,890	MWh	8.19¢	1,710	8.24¢	1,720
13							
14	Full Service Distribution	Quantity	Units				
15							
16	Service Charge	19	Cust.	70	16	70	16
17							
18	<u>Distribution Charges</u>						
19	Primary	20,890	MWh	0.01968	411	0.01884	394
20	Distribution System	20,890	MWh	2.04¢	427	1.96¢	410
21							
22	IRM	20,890	MWh	0.000233	5	0.000233	5
23	Nuclear Decommissioning	20,890	MWh	0.000882	18	0.000882	18
24	Energy Waste Reduction	19	Meters	1,237.99	283	1,237.99	283
25	LIEAF	19	Meters	0.88	0	0.88	0
26	Distribution Surcharges	20,890	MWh	1.47¢	307	1.47¢	307
27							
28	Total Full Service Distribution	20,890	MWh	3.51¢	734	3.43¢	717
29	Total Full Service D10	20,890	MWh	11.70¢	2,444	11.67¢	2,437
30							
31	Choice Distribution	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
32	Capacity						
33	Energy						
34	Energy -- Winter	0	MWh	0.00094	0	0.01579	0
35	Energy -- Summer	0	MWh	0.02107	0	0.03592	0
36	Total Capacity	0	MWh				0
37							
38	Service Charge	12	Cust.	70	10	70	10
39							
40	<u>Distribution Charges</u>						
41	Primary	13,396	MWh	0.01968	264	0.01884	252
42	Distribution System	13,396	MWh	2.04¢	274	1.96¢	262
43							
44	IRM	13,396	MWh	0.000233	3	0.000233	3
45	Nuclear Decommissioning	13,396	MWh	0.000882	12	0.000882	12
46	Energy Waste Reduction	12	Meters	1,237.99	178	1,237.99	178
47	LIEAF	12	Meters	0.88	0	0.88	0
48	Distribution Surcharges	13,396	MWh	1.44¢	193	1.44¢	193
49							
50	Total Choice D10	13,396	MWh	3.49¢	467	3.40¢	456
51							
52	Total D10	34,286	MWh	8.49¢	2,911	8.44¢	2,893
53	Increase/Decrease (\$)						(18)

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
EXPERIMENTAL LARGE CUSTOMER LOW
PEAK DEMAND SUPPLY RATE - D12
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Revenue	(e) Proposed	(f) Revenue
		Quantity Units	Rate	(\$000)	Rate	(\$000)
	Full Service Power Supply					
	Capacity					
1	Power Supply Demand (October through May)	0 kW	0.32	0	0.32	0
2	Power Supply Demand (June through September)	0 kW	8.00	0	8.05	0
3						
4	<u>Voltage Level Discount - Transmission</u>					
5	CVLD (October through May)	0 kW	(0.005)	0	(0.005)	0
6	CVLD (June through September)	0 kW	(0.14)	0	(0.14)	0
7						
8	Total Capacity			0		0
9						
10	Non-Capacity					
11	Power Supply Demand (October through May)	0 kW	0.32	0	0.32	0
12	Power Supply Demand (June through September)	0 kW	41.16	0	41.41	0
13						
14	<u>Voltage Level Discount - Transmission</u>					
15	NCVLD (October through May)	0 kW	(0.005)	0	(0.005)	0
16	NCVLD (June through September)	0 kW	(0.70)	0	(0.70)	0
17						
18	<u>Energy</u>					
19	On-Peak	0 MWh	0.04112	0	0.04137	0
20	Off-Peak	0 MWh	0.03611	0	0.03633	0
21						
22	<u>Voltage Level Discount - Transmission</u>	0 MWh	(0.00056)	0	(0.00056)	0
23						
24	Power Supply Subtotal	0 MWh		0		0
25						
26	PSCR	0 MWh	0.00000	0	0.00000	0
27	REPS	0 Cust.	0.0	0	0.0	0
28	Total Full Service Power Supply	0 MWh		0		0
29						
30	Full Service Distribution	Quantity Units				
31						
32	Service Charge - SV	0 Cust.	375	0	375	0
33	Service Charge - TV	0 Cust.	375	0	375	0
34	<u>Distribution Charges</u>					
35	Subtransmission	0 kW	1.96	0	1.74	0
36		0 MWh				
37	Transmission	0 kW	0.86	0	0.94	0
38		0 MWh				
39	<u>Substation Credit</u>					
40	Demand	0 kW	(0.30)	0	(0.30)	0
41	Energy	0 MWh	(0.0004)	0	(0.0004)	0
42	Distribution System	0 MWh	#DIV/0!	0	#DIV/0!	0
43						
44	IRM - SV	0 kW	0.031200	0	0.031200	0
45	IRM - TV	0 kW	0.000000	0	0.000000	0
46	Nuclear Decommissioning	0 MWh	0.000882	0	0.000882	0
47	Energy Waste Reduction	0 Meters	1,237.99	0	1,237.99	0
48	LIEAF	0 Meters	0.88	0	0.88	0
49	Distribution Surcharges	0 MWh		0	#DIV/0!	0
50						
51	Total Full Service Distribution	0 MWh		0		0
52	Total Full Service D12	0 MWh		0		0

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
XL High Load Factor Rate - D13
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply					
1	Capacity	200,000 MWh	0.01514	3,028	0.01514	3,028
2	Non-Capacity	200,000 MWh	0.03430	6,860	0.03287	6,574
3	Transmission	200,000 MWh	0.00304	608	0.00308	616
4	Power Supply Subtotal	200,000 MWh		10,496		10,218
5						
6	REPS	3 Cust.	0.00	0	0.00	0
7	Total Full Service Power Supply	200,000 MWh	5.25¢	10,496	5.11¢	10,218
8						
9	Full Service Distribution	Quantity Units				
10						
11	Service Charge - PV	1 Cust.	70	1	70	1
12	Service Charge - SV	0 Cust.	375	0	375	0
13	Service Charge - TV	2 Cust.	375	9	375	9
14						
15	Distribution Charges					
16	Primary	32,850 MWh	0.00936	307	0.00968	318
17	Sub-transmission	0 MWh	0.00298	0	0.00265	0
18	Transmission	167,150 MWh	0.00131	219	0.00144	240
19						
20	Administration Charge	200,000 MWh	0.00015	30	0.00015	30
21						
22	<u>Substation Credit</u>					
23	Primary Side	MWh	(0.00040)	0	(0.00040)	0
24	Customer Owned	MWh	(0.00055)	0	(0.00055)	0
25						
26	Distribution System	200,000 MWh	0.28¢	566	0.30¢	598
27						
28	IRM - PV	32,850 MWh	0.000133	4	0.000133	4
29	IRM - SV	0 MWh	0.000057	0	0.000057	0
30	IRM - TV	167,150 MWh	0.000000	0	0.000000	0
31	Energy Waste Reduction	3 Meters	1,237.99	45	1,237.99	45
32	LIEAF	3 Meters	0.88	0	0.88	0
33	Distribution Surcharges	200,000 MWh	0.02¢	49	0.02¢	49
34						
35	Total Full Service Distribution	200,000 MWh	0.31¢	615	0.32¢	647
36	Total Full Service D13	200,000 MWh	5.56¢	11,111	5.43¢	10,865
37	Increase/Decrease (\$)					(246)

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Optional TOU Primary Supply Rate - D14
Designed Revenue Neutral to D11
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) (d) Proposed D11		(e) (f) Revenue Neutral Design	
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
	Capacity						
1	June - September						
2	On Peak (11am - 7pm M-F, excl holidays)	1,070,182	MWh			0.02817	30,146
3	Off Peak	3,054,881	MWh			0.01676	51,208
4	October - May						
5	On Peak (11am - 7pm M-F, excl holidays)	1,824,363	MWh			0.01947	35,522
6	Off Peak	5,555,958	MWh			0.01676	93,133
7	Voltage Level Discount						
8	Subtransmission	1,298,106	MWh			(0.00032)	(419)
9	Transmission	4,354,860	MWh			(0.00072)	(3,132)
10	Total Capacity	11,505,383	MWh				
11							
12	Non-Capacity						
13	June - September						
14	On Peak (11am - 7pm M-F, excl holidays)	1,070,182	MWh			0.07534	80,632
15	Off Peak	3,054,881	MWh			0.04484	136,967
16	October - May						
17	On Peak (11am - 7pm M-F, excl holidays)	1,824,363	MWh			0.05208	95,013
18	Off Peak	5,555,958	MWh			0.04484	249,105
19	Voltage Level Discount						
20	Subtransmission	1,298,106	MWh			(0.00086)	(1,122)
21	Transmission	4,354,860	MWh			(0.00192)	(8,377)
22	Power Supply Subtotal	11,505,383	MWh		0		758,675
23							
24	PSCR	11,505,383	MWh	0.00000	0	0.00000	0
25	REPS	2,079	Cust.	0.0	0	0.0	0
26	Total Full Service Power Supply	11,505,383	MWh	6.59¢	758,675	6.59¢	758,675
27							
28	Full Service Distribution	Quantity	Units				
29							
30	Service Charge - PV	1,949	Cust.	70	1,637	70	1,637
31	Service Charge - SV	70	Cust.	375	315	375	315
32	Service Charge - TV	60	Cust.	375	270	375	270
33	Distribution Charges						
34	Primary	15,679,728	kW	6.36	99,766	6.36	99,766
35		5,852,418	MWh				
36	Subtransmission	3,118,737	kW	1.74	5,433	1.74	5,433
37		1,298,106	MWh				
38	Transmission	8,008,087	kW	0.94	7,550	0.94	7,550
39		4,354,860	MWh				
40	Substation Credit						
41	Demand	3,035,972	kW	(0.30)	(911)	(0.30)	(911)
42	Energy	181,296	MWh	(0.0004)	(73)	(0.0004)	(73)
43	Distribution System	11,505,383	MWh	0.99¢	113,987	0.99¢	113,987
44							
45	IRM - PV	15,679,728	kW	0.0727	1,140	0.0727	1,140
46	IRM - SV	3,118,737	kW	0.0312	97	0.0312	97
47	IRM - TV	8,008,087	kW	0	0	0.0000	0
48	Nuclear Decommissioning	11,505,383	MWh	0.000882	10,148	0.000882	10,148
49	Energy Waste Reduction	2,463	Meters	1,237.99	36,597	1,237.99	36,597
50	LIEAF	2,463	Meters	0.88	26	0.88	26
51	Distribution Surcharges	11,505,383	MWh	0.42¢	48,008	0.42¢	48,008
52							
53	Total Full Service Distribution	11,505,383	MWh	1.41¢	161,995	1.41¢	161,995
54	Total Full Service D14	11,505,383	MWh	8.00¢	920,670	8.00¢	920,670

Michigan Public Service Commission
DTE Electric Company
Optional TOU Primary Supply Rate - D14 Cont'd
Designed Revenue Neutral to D11
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) (d) Proposed D11		(e) (f) Revenue Neutral Design	
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
55	Choice Distribution						
56	Capacity						
57	June - September						
58	On Peak (11am - 7pm M-F, excl holidays)	0	MWh			0.02817	0
59	Off Peak	0	MWh			0.01676	0
60	October - May						0
61	On Peak (11am - 7pm M-F, excl holidays)	0	MWh			0.01947	0
62	Off Peak	0	MWh			0.01676	0
63	<u>Voltage Level Discount</u>						0
64	Subtransmission	0	MWh			(0.00032)	0
65	Transmission	0	MWh			(0.00072)	0
66	Total Capacity	0	MWh		0		0
67							
68	Service Charge - PV	530	Cust.	70	445	70	445
69	Service Charge - SV	11	Cust.	375	50	375	50
70	Service Charge - TV	8	Cust.	375	34	375	34
71	<u>Distribution Charges</u>						
72	Primary	5,033,729	kW	6.36	32,028	6.36	32,028
73		2,011,974	MWh				
74	Subtransmission	558,645	kW	1.74	973	1.74	973
75		204,630	MWh				
76	Transmission	2,289,408	kW	0.94	2,159	0.94	2,159
77		831,189	MWh				
78	Substation Credit						
79	Demand	1,797,568	kW	(0.30)	(539)	(0.30)	(539)
80	Energy	41,020	MWh	(0.0004)	(16)	(0.0004)	(16)
81	Distribution System	3,047,793	MWh	1.15¢	35,133	1.15¢	35,133
82							
83	IRM - PV	5,033,729	kW	0.0727	366	0.0727	366
84	IRM - SV	558,645	kW	0.0312	17	0.0312	17
85	IRM - TV	2,289,408	kW	0	0	0	0
86	Nuclear Decommissioning	3,047,793	MWh	0.000882	2,688	0.000882	2,688
87	Energy Waste Reduction	631	Meters	1,237.99	9,367	1,237.99	9,367
88	LIEAF	631	Meters	0.88	7	0.88	7
89	Distribution Surcharges	3,047,793	MWh	0.41¢	12,446	0.41¢	12,446
90							
91	Total Choice D14	3,047,793	MWh	1.56¢	47,579	1.56¢	47,579
92							
93	Total D14	14,553,177	MWh	6.65¢	968,249	6.65¢	968,249
94	Increase/Decrease (\$)						(0)

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Alternative Metal Melting Rider - R1.1

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(e) Proposed	
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
	Capacity						
1	<u>Energy</u>						
2	Secondary						
3	First 100 Hours Use	2,315	MWh	0.00706	16	0.01902	44
4	Excess Hours Use	803	MWh	0.00267	2	0.00719	6
5	Primary						
6	First 100 Hours Use	6,627	MWh	0.00525	35	0.01415	94
7	Excess Hours Use	712	MWh	0.00191	1	0.00515	4
8	Subtransmission						
9	First 100 Hours Use	15,552	MWh	0.00512	80	0.01380	215
10	Excess Hours Use	35,693	MWh	0.00178	64	0.00480	171
11	Transmission						
12	First 100 Hours Use	37,938	MWh	0.00434	165	0.01169	444
13	Excess Hours Use	25,522	MWh	0.00144	37	0.00388	99
14	Total Capacity	125,163	MWh		399		1,076
15							
16	Non-Capacity						
17	Energy	125,163	MWh	0.05251	6,572	0.04723	5,911
18	Power Supply Subtotal				6,971		6,987
19							
20	PSCR	125,163	MWh	0.00000	0	0.00000	0
21	REPS	17	Cust.	0.00	0	0.00	0
22	Total Full Service Power Supply	125,163	MWh	5.57¢	6,971	5.58¢	6,987
23							
24	Full Service Distribution	Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
25							
26	<u>Distribution Charges</u>						
27	Secondary						
28	First 100 Hours Use	2,315	MWh	0.05288	122	0.05917	137
29	Excess Hours Use	803	MWh	0.05288	42	0.05917	48
30	Primary						
31	First 100 Hours Use	6,627	MWh	0.01832	121	0.01926	128
32	Excess Hours Use	712	MWh	0.01832	13	0.01926	14
33	Subtransmission						
34	First 100 Hours Use	15,552	MWh	0.00677	105	0.00510	79
35	Excess Hours Use	35,693	MWh	0.00677	242	0.00510	182
36	Transmission						
37	First 100 Hours Use	37,938	MWh	0.00274	104	0.00571	217
38	Excess Hours Use	25,522	MWh	0.00274	70	0.00571	146
39							
40	<u>Substation Credit</u>						
41	Energy	3,966	MWh	(0.00300)	(12)	(0.00300)	(12)
42	Distribution System	125,163	MWh	0.65¢	808	1.48¢	938
43							
44	IRM - DV	3,118	MWh	0.000555	2	0.000555	2
45	IRM - PV	7,339	MWh	0.000229	2	0.000229	2
46	IRM - SV	51,246	MWh	0.000104	5	0.000104	5
47	IRM - TV	63,460	MWh	0	0	0	0
48	Nuclear Decommissioning	125,163	MWh	0.000882	110	0.000882	110
49	Energy Waste Reduction	23	Meters	1,237.99	345	1,237.99	345
50	LIEAF	23	Meters	0.88	0	0.88	0
51	Distribution Surcharges	125,163	MWh	0.37¢	464	0.37¢	464
52							
53	Total Full Service Distribution	125,163	MWh	1.02¢	1,273	1.12¢	1,402
54	Total Full Service R1.1	125,163	MWh	6.59¢	8,244	6.70¢	8,389

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Alternative Metal Melting Rider - R1.1 (Cont'd)

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(d)	(e) Proposed		(f)
		Quantity	Units	Rate	Revenue (\$000)		Rate	Revenue (\$000)	
55	Choice Distribution								
56	Capacity								
57	<u>Energy</u>								
58	Secondary								
59	First 100 Hours Use	0	MWh	0.00706	0		0.01902	0	
60	Excess Hours Use	0	MWh	0.00267	0		0.00719	0	
61	Primary								
62	First 100 Hours Use	0	MWh	0.00525	0		0.01415	0	
63	Excess Hours Use	0	MWh	0.00191	0		0.00515	0	
64	Subtransmission								
65	First 100 Hours Use	0	MWh	0.00512	0		0.01380	0	
66	Excess Hours Use	0	MWh	0.00178	0		0.00480	0	
67	Transmission								
68	First 100 Hours Use	0	MWh	0.00434	0		0.01169	0	
69	Excess Hours Use	0	MWh	0.00144	0		0.00388	0	
70	Total Capacity	0	MWh						0
71									
72	<u>Distribution Charges</u>								
73	Secondary								
74	First 100 Hours Use	0	MWh	0.05288	0		0.05917	0	
75	Excess Hours Use	0	MWh	0.05288	0		0.05917	0	
76	Primary								
77	First 100 Hours Use	0	MWh	0.01832	0		0.01926	0	
78	Excess Hours Use	0	MWh	0.01832	0		0.01926	0	
79	Subtransmission								
80	First 100 Hours Use	0	MWh	0.00677	0		0.00510	0	
81	Excess Hours Use	0	MWh	0.00677	0		0.00510	0	
82	Transmission								
83	First 100 Hours Use	0	MWh	0.00274	0		0.00571	0	
84	Excess Hours Use	0	MWh	0.00274	0		0.00571	0	
85									
86	<u>Substation Credit</u>								
87	Energy	0	MWh	(0.00300)	0		(0.00300)	0	
88	Distribution System	0	MWh		0			0	
89									
90	IRM - DV	0	MWh	0.000555	0		0.000555	0	
91	IRM - PV	0	MWh	0.000229	0		0.000229	0	
92	IRM - SV	0	MWh	0.000104	0		0.000104	0	
93	IRM - TV	0	MWh	0	0		0	0	
94	Nuclear Decommissioning	0	MWh	0.000882	0		0.000882	0	
95	Energy Optimization	0	Meters	1,237.99	0		1,237.99	0	
96	LIEAF	0	Meters	0.88	0		0.88	0	
97	Distribution Surcharges	0	MWh		0			0	
98									
99	Total Choice R1.1	0	MWh		0			0	
100									
101	Total R1.1	125,163	MWh	6.59¢	8,244		6.70¢	8,389	
102	Increase/Decrease (\$)							145	

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Electric Process Heat Rider - R1.2

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(e) Proposed	
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
	Full Service Power Supply						
	Capacity						
1	<u>Energy</u>						
2	Secondary						
3	First 100 Hours Use	12,311	MWh	0.00706	87	0.01902	234
4	Excess Hours Use	22,552	MWh	0.00267	60	0.00719	162
5	Primary						
6	First 100 Hours Use	81,851	MWh	0.00525	430	0.01415	1,158
7	Excess Hours Use	203,438	MWh	0.00191	389	0.00515	1,047
8	Subtransmission						
9	First 100 Hours Use	6,424	MWh	0.00512	33	0.01380	89
10	Excess Hours Use	20,884	MWh	0.00178	37	0.00480	100
11	Transmission						
12	First 100 Hours Use	0	MWh	0.00434	0	0.01169	0
13	Excess Hours Use	0	MWh	0.00144	0	0.00388	0
14	Total Capacity	347,461	MWh		1,035		2,790
15							
16	Non-Capacity						
17	<u>Energy</u>	347,461	MWh	0.05251	18,245	0.04723	16,410
18	Power Supply Subtotal	347,461			19,281		19,200
19							
20	PSCR	347,461	MWh	0.00000	0	0.00000	0
21	REPS	156	Cust.	0.00	0	0.00	0
22	Total Full Service Power Supply	347,461	MWh	5.55¢	19,281	5.53¢	19,200
23							
24	Full Service Distribution	Quantity	Units				
25							
26	<u>Distribution Charges</u>						
27	Secondary						
28	First 100 Hours Use	12,311	MWh	0.05288	651	0.05917	729
29	Excess Hours Use	22,552	MWh	0.05288	1,193	0.05917	1,334
30	Primary						
31	First 100 Hours Use	81,851	MWh	0.01832	1,500	0.01926	1,576
32	Excess Hours Use	203,438	MWh	0.01832	3,727	0.01926	3,918
33	Subtransmission						
34	First 100 Hours Use	6,424	MWh	0.00677	43	0.00510	33
35	Excess Hours Use	20,884	MWh	0.00677	141	0.00510	107
36	Transmission						
37	First 100 Hours Use	0	MWh	0.00274	0	0.00571	0
38	Excess Hours Use	0	MWh	0.00274	0	0.00571	0
39							
40	<u>Substation Credit</u>						
41	Energy	0	MWh	(0.00300)	0	(0.00300)	0
42	Distribution System	347,461	MWh	2.09¢	7,255	2.21¢	7,696
43							
44	IRM - DV	34,864	MWh	0.000555	19	0.000555	19
45	IRM - PV	285,289	MWh	0.000229	65	0.000229	65
46	IRM - SV	27,308	MWh	0.000104	3	0.000104	3
47	IRM - TV	0	MWh	0	0	0	0
48	Nuclear Decommissioning	347,461	MWh	0.000882	306	0.000882	306
49	Energy Waste Reduction	180	Meters	1,237.99	2,676	1,237.99	2,676
50	LIEAF	180	Meters	0.88	2	0.88	2
51	Distribution Surcharges	347,461	MWh	0.88¢	3,072	0.88¢	3,072
52							
53	Total Full Service Distribution	347,461	MWh	2.97¢	10,327	3.10¢	10,768
54	Total Full Service R1.2	347,461	MWh	8.52¢	29,608	8.62¢	29,968

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Electric Process Heat Rider - R1.2 (Cont'd)

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Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants		(c) Present		(e) Proposed	
		Quantity	Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
55	Choice Distribution						
56	Capacity						
57	Energy						
58	Secondary						
59	First 100 Hours Use	0	MWh	0.00706	0	0.01902	0
60	Excess Hours Use	0	MWh	0.00267	0	0.00719	0
61	Primary						
62	First 100 Hours Use	0	MWh	0.00525	0	0.01415	0
63	Excess Hours Use	0	MWh	0.00191	0	0.00515	0
64	Subtransmission						
65	First 100 Hours Use	0	MWh	0.00512	0	0.01380	0
66	Excess Hours Use	0	MWh	0.00178	0	0.00480	0
67	Transmission						
68	First 100 Hours Use	0	MWh	0.00434	0	0.01169	0
69	Excess Hours Use	0	MWh	0.00144	0	0.00388	0
70	Total Capacity	0	MWh				0
71	Distribution Charges						
72	Secondary						
73	First 100 Hours Use	0	MWh	0.05288	0	0.05917	0
74	Excess Hours Use	0	MWh	0.05288	0	0.05917	0
75	Primary						
76	First 100 Hours Use	5,269	MWh	0.01832	97	0.01926	101
77	Excess Hours Use	17,116	MWh	0.01832	314	0.01926	330
78	Subtransmission						
79	First 100 Hours Use	0	MWh	0.00677	0	0.00510	0
80	Excess Hours Use	0	MWh	0.00677	0	0.00510	0
81	Transmission						
82	First 100 Hours Use	0	MWh	0.00274	0	0.00571	0
83	Excess Hours Use	0	MWh	0.00274	0	0.00571	0
84							
85	Substation Credit						
86	Energy			(0.00300)	0	(0.00300)	0
87	Distribution System	22,385	MWh	1.83¢	410	1.93¢	431
88							
89	IRM - DV	0	MWh	0.000555	0	0.000555	0
90	IRM - PV	22,385	MWh	0.000229	5	0.000229	5
91	IRM - SV	0	MWh	0.000104	0	0.000104	0
92	IRM - TV	0	MWh	0	0	0	0
93	Nuclear Decommissioning	22,385	MWh	0.000882	20	0.000882	20
94	Energy Waste Reduction	6	Meters	1,237.99	83	1,237.99	83
95	LIEAF	6	Meters	0.88	0	0.88	0
96	Distribution Surcharges	22,385	MWh	0.48¢	108	0.48¢	108
97							
98	Total Choice Distribution R1.2	22,385	MWh	2.31¢	518	2.41¢	539
99							
100	Total R1.2	369,846	MWh	8.15¢	30,125	8.25¢	30,507
101	Increase/Decrease (\$)						381

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Parallel Operation And Standby Service Rider - R3
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
1	Full Service Power Supply					
2	Station Power					
3	Capacity					
4	Administrative Charge	7,386 MWh	0.00000	0	0.00000	0
5	Station Power Capacity	7,386 MWh		0		0
6	Non-Capacity					
7	MISO Energy Charge	7,386 MWh	0.03935	291	0.03935	291
8	Net Trans MISO MKT	7,386 MWh	0.00767	57	0.00769	57
9	Administrative Charge	7,386 MWh	0.00000	0	0.00000	0
10	Station Power PS Subtotal	7,386 MWh		347		347
11						
12	Standard R3					
13	Capacity					
14	<u>Power Supply Demand</u>					
15	Generation Reservation Fee	111,811 kW	0.13	15	0.35	39
16	Daily Demand	1,519,268 kW	0.36	547	0.98	1,484
17	Maintenance Demand	84,577 kW	0.18	15	0.49	41
18						
19						
20						
21						
22						
23	<u>Energy</u>					
24	Secondary	2,502 MWh	0.01010	25	0.02770	69
25	Primary Total	64,300 MWh	0.00000	0	0.00000	0
26		66,802 MWh				
27						
28						
29						
30						
31	Standard R3 Capacity	66,802 MWh		602		1,634
32						
33	Non-Capacity					
34	<u>Power Supply Demand</u>					
35	Generation Reservation Fee	111,811 kW	0.48	54	0.26	29
36	Daily Demand	1,519,268 kW	1.33	2,021	0.72	1,100
37	Maintenance Demand	84,577 kW	0.67	57	0.36	31
38						
39	<u>Energy</u>					
40	Secondary	2,502 MWh	0.07096	178	0.05413	135
41	Primary Total	64,300 MWh	0.04890	3,144	0.04906	3,155
42	Primary Off-Peak Discount	48,273 MWh	(0.010000)	(483)	(0.010000)	(483)
43						
44	<u>Voltage Level Discount</u>					
45	Subtransmission	24,083 MWh	(0.00062)	(15)	(0.00062)	(15)
46	Transmission	17,970 MWh	(0.00138)	(25)	(0.00139)	(25)
47	Standard R3 PS Subtotal	66,802		5,532		5,561
48	PSCR	66,802 MWh	0.00000	0	0.00000	0
49	REPS	40 Cust.	0.00	0	0.00	0
50	Total Full Service Power Supply	74,189 MWh	7.93¢	5,880	7.96¢	5,908

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Parallel Operation And Standby Service Rider - R3 (Cont'd)
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d)	(e) Proposed	(f)
51	Full Service Distribution	<u>Quantity</u> <u>Units</u>				
52	<u>Service Charge</u>					
53	Secondary	13 Cust.	70	11	70	11
54	Service Charge - PV	14 Cust.	70	12	70	12
55	Service Charge - SV	12 Cust.	375	54	375	54
56	Service Charge - TV	1 Cust.	375	5	375	5
57	<u>Distribution Charges</u>					
58	Secondary	15,050 kW	13.22	199	14.79	223
59		2,502 MWh	0.05288	132	0.05917	148
60	Primary	78,089 kW	6.15	480	6.36	497
61		22,247 MWh				
62	Subtransmission	483,801 kW	1.96	948	1.74	843
63		24,083 MWh				
64	Transmission	92,427 kW	0.86	79	0.94	87
65		17,970 MWh				
66	<u>Substation Credit</u>					
67	Demand	101,092 kW	(0.30)	(30)	(0.30)	(30)
68	Energy	8,892 MWh	(0.00040)	(4)	(0.00040)	(4)
69	Distribution System	66,802 MWh	2.82¢	1,886	2.76¢	1,844
70						
71	IRM - DV	2,502 MWh	0.000595	1	0.000595	1
72	IRM - PV	78,089 kW	0.0727	6	0.072700	6
73	IRM - SV	483,801 kW	0.0312	15	0.031200	15
74	IRM - TV	92,427 kW	0.0000	0	0.000000	0
75	Nuclear Decommissioning	66,802 MWh	0.000882	59	0.000882	59
76	Energy Waste Reduction	46 Meters	1,237.99	678	1,237.99	678
77	LIEAF	46 Meters	0.88	0	0.88	0
78	Distribution Surcharges	66,802 MWh	1.14¢	760	1.14¢	760
79						
80	Total Full Service Distribution	66,802 MWh	3.96¢	2,646	3.90¢	2,604
81	Total Full Service R3	74,189 MWh	11.49¢	8,526	11.47¢	8,512
82	Increase/Decrease (\$)					(13)

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Interruptible Supply Rider - R10
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants Quantity Units	(c) Present Rate	(d) Present Revenue (\$000)	(e) Proposed Rate	(f) Proposed Revenue (\$000)
1	Full Service Power Supply					
2	Capacity					
3	Administrative Charge	998,081 MWh	0.00000	0	0.00000	0
4	Total Capacity	998,081 MWh				
5	Non-Capacity					
6	Administrative Charge	998,081 MWh	0.00000	0	0.00000	0
7	MISO Energy Charge	998,081 MWh	0.03935	39,274	0.03935	39,274
8	Net Trans MISO MKT	998,081 MWh	0.00767	7,655	0.00769	7,674
9	<u>Voltage Level Service Adder</u>					
10	Primary	30,650 MWh	5.50%	79	5.50%	79
11	Subtransmission	21,262 MWh	3.73%	37	3.73%	37
12	Transmission	946,169 MWh	1.56%	694	1.56%	694
13	Power Supply Subtotal	998,081 MWh		47,740		47,759
14	REPS	0 meters	0.00	0	0.00	0
15	Total Full Service Power Supply	998,081 MWh	4.78¢	47,740	4.79¢	47,759
16	Full Service Distribution					
17						
18	Service Charge - PV	12 Cust.	70	10	70	10
19	Service Charge - SV	8 Cust.	375	36	375	36
20	Service Charge - TV	33 Cust.	375	149	375	149
21	<u>Distribution Charges</u>					
22	Primary	178,736 kW	6.15	1,099	6.36	1,137
23		30,650 MWh				
24	Subtransmission	65,584 kW	1.96	129	1.74	114
25		21,262 MWh				
26	Transmission	3,790,403 kW	0.86	3,260	0.94	3,574
27		946,169 MWh				
28	<u>Substation Credit</u>					
29	Demand	1,250,515 kW	(0.30)	(375)	(0.30)	(375)
30	Energy	144,780 MWh	(0.0004)	(58)	(0.0004)	(58)
31	Distribution System	998,081 MWh	0.43¢	4,249	0.46¢	4,587
32	IRM - PV	178,736 kW	0.0727	13	0.0727	13
33	IRM - SV	65,584 kW	0.0312	2	0.0312	2
34	IRM - TV	3,790,403 kW	0	0	0	0
35	Nuclear Decommissioning	998,081 MWh	0.000882	880	0.000882	880
36	Energy Waste Reduction	0 Meters	1,237.99	0	1,237.99	0
37	LIEAF	0 Meters	0.88	0	0.88	0
38	Distribution Surcharges	998,081 MWh	0.09¢	895	0.09¢	895
39						
40	Total Full Service Distribution	998,081 MWh	0.52¢	5,145	0.55¢	5,482
41	Total Full Service R10	998,081 MWh	5.30¢	52,885	5.33¢	53,242

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Interruptible Supply Rider - R10 (Cont'd)
All Voltages

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Present	(d) Present	(e) Proposed	(f) Proposed
		Quantity Units	Rate	Revenue (\$000)	Rate	Revenue (\$000)
45	Choice Distribution					
46	Capacity					
47	Administrative Charge	0 MWh	0.00000		0.00000	0
48	Total Capacity	0 MWh				0
49						
50	Service Charge - PV	0 Cust.	70	0	70	0
51	Service Charge - SV	0 Cust.	375	0	375	0
52	Service Charge - TV	0 Cust.	375	0	375	0
53	<u>Distribution Charges</u>					
54	Primary	0 kW	6.15	0	6.36	0
55						
56	Subtransmission	0 kW	1.96	0	1.74	0
57						
58	Transmission	0 kW	0.86	0	0.94	0
59						
60	<u>Substation Credit</u>					
61	Demand	0 kW	(0.30)	0	(0.30)	0
62	Energy	0 MWh	(0.0004)	0	(0.0004)	0
63	Distribution System	0 MWh		0		0
64						
65	IRM - PV	0 kW	0.0727	0	0.0727	0
66	IRM - SV	0 kW	0.0312	0	0.0312	0
67	IRM - TV	0 kW	0	0	0	0
68	Nuclear Decommissioning		0.000882	0	0.000882	0
69	Energy Waste Reduction		1,237.99	0	1,237.99	0
70	LIEAF	0 Meters	0.88	0	0.88	0
71	Distribution Surcharges			0		0
72						
73	Total Choice Distribution R10	0 MWh		0		0
74						
75	Total R10	998,081 MWh	5.30¢	52,885	5.33¢	53,242
76	Increase/Decrease (\$)					357

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Outdoor Protective Lighting - D9 Residential

Case No.: U-21534
Exhibit: S-6
Schedule: F3
Witness: D.W. Isakson
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Line No.	(a) Description	(b) Billing Determinants	(c) Rate (\$/luminaire/mh)	(d) Non-Capacity Energy (¢/kWh)	(e) Capacity Energy (¢/kWh)	(f) Revenue (\$000)	(g) Rate (\$/luminaire/mh)	(h) Non-Capacity Energy (¢/kWh)	(i) Capacity Energy (¢/kWh)	(j) Revenue (\$000)
		Quantity Units								
1	Overhead									
2	Mercury Vapor									
3	100 W	0 Lamps	15.04	4.46	0.00	0	9.02	4.61	0.00	0
4	175 W	3,129 Lamps	18.68	4.46	0.00	825	19.52	4.61	0.00	860
5	250 W	1 Lamps	22.32	4.46	0.00	0	23.35	4.61	0.00	0
6	400 W	54 Lamps	29.40	4.46	0.00	24	30.79	4.61	0.00	25
7	1,000 W	3 Lamps	60.24	4.46	0.00	3	62.85	4.61	0.00	3
8										
9	High Pressure Sodium Vapor									
10	100 W	3,245 Lamps	14.00	4.46	0.00	627	14.62	4.61	0.00	654
11	150 W	1 Lamps	16.71	4.46	0.00	0	17.47	4.61	0.00	0
12	250 W	399 Lamps	21.49	4.46	0.00	126	22.49	4.61	0.00	131
13	360 W	0 Lamps	25.11	4.46	0.00	0	26.66	4.61	0.00	0
14	400 W	31 Lamps	26.42	4.46	0.00	13	27.70	4.61	0.00	13
15	1,000 W	4 Lamps	53.23	4.46	0.00	3	55.90	4.61	0.00	4
16										
17	Metal Halide									
18	100 W	0 Lamps	14.03	4.46	0.00	0	12.26	4.61	0.00	0
19	150 W	0 Lamps	16.77	4.46	0.00	0	15.71	4.61	0.00	0
20	175 W	0 Lamps	18.14	4.46	0.00	0	17.43	4.61	0.00	0
21	250 W	0 Lamps	22.25	4.46	0.00	0	22.61	4.61	0.00	0
22	320 W	0 Lamps	26.09	4.46	0.00	0	26.34	4.61	0.00	0
23	400 W	0 Lamps	30.48	4.46	0.00	0	31.80	4.61	0.00	0
24	1,000 W	1 Lamps	63.38	4.46	0.00	1	65.71	4.61	0.00	1
25		0								
26	LED	0								
27	20 - 29 W	0 Lamps	11.20	4.46	0.00	0	11.93	4.61	0.00	0
28	30 - 39 W	0 Lamps	11.79	4.46	0.00	0	12.27	4.61	0.00	0
29	40 - 49 W	0 Lamps	12.37	4.46	0.00	0	12.88	4.61	0.00	0
30	50 - 59 W	722 Lamps	12.95	4.46	0.00	120	13.48	4.61	0.00	125
31	60 - 69 W	1,458 Lamps	13.53	4.46	0.00	254	14.09	4.61	0.00	265
32	70 - 79 W	11 Lamps	14.12	4.46	0.00	2	14.71	4.61	0.00	2
33	80 - 89 W	0 Lamps	14.70	4.46	0.00	0	15.32	4.61	0.00	0
34	90 - 99 W	0 Lamps	15.28	4.46	0.00	0	15.94	4.61	0.00	0
35	100 - 109 W	0 Lamps	15.86	4.46	0.00	0	16.55	4.61	0.00	0
36	110 - 119 W	4 Lamps	16.45	4.46	0.00	1	17.15	4.61	0.00	1
37	120 - 129 W	0 Lamps	17.03	4.46	0.00	0	17.78	4.61	0.00	0
38	130 - 139 W	140 Lamps	17.61	4.46	0.00	33	18.37	4.61	0.00	35
39	140 - 149 W	4 Lamps	18.14	4.46	0.00	1	18.93	4.61	0.00	1
40	150 - 159 W	0 Lamps	18.66	4.46	0.00	0	19.50	4.61	0.00	0
41	160 - 169 W	0 Lamps	19.18	4.46	0.00	0	20.05	4.61	0.00	0
42	170 - 179 W	0 Lamps	19.71	4.46	0.00	0	20.60	4.61	0.00	0
43	180 - 189 W	0 Lamps	20.23	4.46	0.00	0	21.16	4.61	0.00	0
44	190 - 199 W	0 Lamps	20.75	4.46	0.00	0	21.71	4.61	0.00	0
45	200 - 209 W	0 Lamps	21.28	4.46	0.00	0	22.22	4.61	0.00	0
46	210 - 219 W	2 Lamps	21.80	4.46	0.00	1	22.77	4.61	0.00	1
47	220 - 229 W	0 Lamps	22.32	4.46	0.00	0	23.31	4.61	0.00	0
48	230 - 239 W	5 Lamps	22.85	4.46	0.00	2	23.87	4.61	0.00	2
49	240 - 249 W	0 Lamps	23.37	4.46	0.00	0	24.48	4.61	0.00	0
50	250 - 259 W	0 Lamps	23.89	4.46	0.00	0	25.04	4.61	0.00	0
51	260 - 269 W	0 Lamps	24.42	4.46	0.00	0	25.59	4.61	0.00	0
52	270 - 279 W	0 Lamps	24.94	4.46	0.00	0	26.14	4.61	0.00	0
53	280 - 289 W	8 Lamps	25.47	4.46	0.00	3	26.62	4.61	0.00	3
54	290 - 299 W	14 Lamps	25.99	4.46	0.00	5	27.16	4.61	0.00	5
55	300 - 309 W	0 Lamps	26.51	4.46	0.00	0	27.80	4.61	0.00	0
56	310 - 319 W	0 Lamps	27.04	4.46	0.00	0	28.36	4.61	0.00	0
57	320 - 329 W	0 Lamps	27.56	4.46	0.00	0	28.91	4.61	0.00	0
58	330 - 339 W	0 Lamps	28.08	4.46	0.00	0	29.47	4.61	0.00	0
59	340 - 349 W	0 Lamps	28.61	4.46	0.00	0	30.02	4.61	0.00	0
60	350 - 359 W	0 Lamps	29.13	4.46	0.00	0	30.57	4.61	0.00	0
61	360 - 369 W	0 Lamps	29.65	4.46	0.00	0	31.13	4.61	0.00	0
62	370 - 379 W	0 Lamps	30.18	4.46	0.00	0	31.68	4.61	0.00	0
63	380 - 389 W	0 Lamps	30.70	4.46	0.00	0	32.23	4.61	0.00	0
64	390 - 399 W	0 Lamps	31.22	4.46	0.00	0	32.65	4.61	0.00	0

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No.	(a) Description	(b) Billing Determinants		(c) Present				(d) Proposed			
				Rate	Non-Capacity Energy	Capacity Energy	Revenue	Rate	Non-Capacity Energy	Capacity Energy	Revenue
		Quantity	Units	(\$/luminaire/ mth)	(¢/kWh)	(¢/kWh)	(\$000)	(\$/luminaire/ mth)	(¢/kWh)	(¢/kWh)	(\$000)
65	Underground										
66	Mercury Vapor										
67	100 W	0	Lamps	27.60	4.46	0.00	0	26.75	4.61	0.00	0
68	175 W	1	Lamps	30.35	4.46	0.00	0	29.38	4.61	0.00	0
69	250 W	0	Lamps	35.65	4.46	0.00	0	34.48	4.61	0.00	0
70	400 W	0	Lamps	46.25	4.46	0.00	0	44.70	4.61	0.00	0
71	1,000 W	0	Lamps	86.55	4.46	0.00	0	77.79	4.61	0.00	0
72											
73	High Pressure Sodium Vapor										
74	70 W	0	Lamps	24.09	4.46	0.00	0	23.36	4.61	0.00	0
75	100 W	1	Lamps	24.86	4.46	0.00	0	24.08	4.61	0.00	0
76	150 W	0	Lamps	26.49	4.46	0.00	0	19.20	4.61	0.00	0
77	250 W	0	Lamps	29.75	4.46	0.00	0	28.75	4.61	0.00	0
78	400 W	0	Lamps	34.64	4.46	0.00	0	21.71	4.61	0.00	0
79	1,000 W	0	Lamps	54.21	4.46	0.00	0	27.72	4.61	0.00	0
80											
81	Metal Halide										
82	100 W	0	Lamps	30.54	4.46	0.00	0	10.99	4.61	0.00	0
83	150 W	0	Lamps	34.29	4.46	0.00	0	16.49	4.61	0.00	0
84	175 W	0	Lamps	36.17	4.46	0.00	0	19.24	4.61	0.00	0
85	250 W	0	Lamps	41.79	4.46	0.00	0	27.48	4.61	0.00	0
86	400 W	0	Lamps	53.05	4.46	0.00	0	42.14	4.61	0.00	0
87	1,000 W	0	Lamps	98.08	4.46	0.00	0	96.19	4.61	0.00	0
88											
89	LED										
90	20 - 29 W	0	Lamps	25.22	4.46	0.00	0	24.49	4.61	0.00	0
91	30 - 39 W	2	Lamps	25.66	4.46	0.00	1	24.91	4.61	0.00	1
92	40 - 49 W	0	Lamps	26.10	4.46	0.00	0	25.43	4.61	0.00	0
93	50 - 59 W	0	Lamps	26.55	4.46	0.00	0	25.77	4.61	0.00	0
94	60 - 69 W	0	Lamps	27.00	4.46	0.00	0	26.20	4.61	0.00	0
95	70 - 79 W	74	Lamps	27.41	4.46	0.00	25	26.59	4.61	0.00	25
96	80 - 89 W	0	Lamps	27.84	4.46	0.00	0	27.00	4.61	0.00	0
97	90 - 99 W	0	Lamps	28.25	4.46	0.00	0	27.40	4.61	0.00	0
98	100 - 109 W	0	Lamps	28.66	4.46	0.00	0	27.79	4.61	0.00	0
99	110 - 119 W	0	Lamps	29.09	4.46	0.00	0	28.20	4.61	0.00	0
100	120 - 129 W	0	Lamps	29.49	4.46	0.00	0	28.46	4.61	0.00	0
101	130 - 139 W	1	Lamps	29.89	4.46	0.00	0	28.97	4.61	0.00	0
102	140 - 149 W	0	Lamps	30.27	4.46	0.00	0	29.22	4.61	0.00	0
103	150 - 159 W	0	Lamps	30.65	4.46	0.00	0	29.59	4.61	0.00	0
104	160 - 169 W	0	Lamps	31.03	4.46	0.00	0	29.97	4.61	0.00	0
105	170 - 179 W	0	Lamps	31.41	4.46	0.00	0	30.35	4.61	0.00	0
106	180 - 189 W	0	Lamps	31.79	4.46	0.00	0	30.73	4.61	0.00	0
107	190 - 199 W	0	Lamps	32.17	4.46	0.00	0	31.11	4.61	0.00	0
108	200 - 209 W	0	Lamps	32.56	4.46	0.00	0	31.53	4.61	0.00	0
109	210 - 219 W	0	Lamps	32.94	4.46	0.00	0	31.86	4.61	0.00	0
110	220 - 229 W	0	Lamps	33.32	4.46	0.00	0	32.24	4.61	0.00	0
111	230 - 239 W	0	Lamps	33.70	4.46	0.00	0	32.62	4.61	0.00	0
112	240 - 249 W	0	Lamps	34.08	4.46	0.00	0	33.00	4.61	0.00	0
113	250 - 259 W	0	Lamps	34.47	4.46	0.00	0	33.38	4.61	0.00	0
114	260 - 269 W	0	Lamps	34.85	4.46	0.00	0	33.76	4.61	0.00	0
115	270 - 279 W	0	Lamps	35.23	4.46	0.00	0	34.09	4.61	0.00	0
116	280 - 289 W	0	Lamps	35.61	4.46	0.00	0	34.45	4.61	0.00	0
117	290 - 299 W	0	Lamps	35.99	4.46	0.00	0	34.81	4.61	0.00	0
118	300 - 309 W	0	Lamps	36.37	4.46	0.00	0	35.27	4.61	0.00	0
119	310 - 319 W	0	Lamps	36.76	4.46	0.00	0	35.65	4.61	0.00	0
120	320 - 329 W	0	Lamps	37.14	4.46	0.00	0	36.03	4.61	0.00	0
121	330 - 339 W	0	Lamps	37.52	4.46	0.00	0	36.40	4.61	0.00	0
122	340 - 349 W	0	Lamps	37.90	4.46	0.00	0	36.78	4.61	0.00	0
123	350 - 359 W	0	Lamps	38.28	4.46	0.00	0	37.16	4.61	0.00	0
124	360 - 369 W	0	Lamps	38.66	4.46	0.00	0	37.54	4.61	0.00	0
125	370 - 379 W	0	Lamps	39.05	4.46	0.00	0	37.92	4.61	0.00	0
126	380 - 389 W	0	Lamps	39.43	4.46	0.00	0	38.30	4.61	0.00	0
127	390 - 399 W	0	Lamps	39.81	4.46	0.00	0	38.67	4.61	0.00	0
128											
129	Lamp Total	9,315	Lamps				2,070				2,157
130											
131	PSCR	6,023	MWh	\$ -			0	\$ -			0
132											
133	Additional Light Credit	0	Lamps	-97.92			0	-97.92			0
134	Post Charge	0	Posts	82.56			0	84.96			0
135											
136	Other Charges										
137		Number of Poles		\$ /Pole/Year				\$ /Pole/Year			
138	New Poles	1,608	Poles	24.48			39	24.48			39
139	Subtotal						2,109				2,196
140	IRM	6,023	MWh	0.005352			32	0.005352			32
141	Nuclear Decommissioning	6,023	MWh	0.000882			5	0.000882			5
142	Subtotal	9,315	Lamps				2,147				2,233
143											
144		Investment		Carrying Charge/Year				Carrying Charge/Year			
145	Special Facilities	10,839		-18%			(2)	-18%			(2)
146	Subtotal	9,315	Lamps				2,145				2,231
147											
148	Energy Waste Reduction	6,023	MWh	0.002552			15	0.002552			15
149	REPS	8,680	Meters	0.00%			0				0
150	Total Residential D9	6,023	MWh				2,160				2,247
151	Increase/Decrease (\$)										

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Outdoor Protective Lighting - D9 Commercial

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Line No.	(a) Description	(b) Billing Determinants	(c) Rate (\$/luminaire/ mth)	(d) Non-Capacity Energy (¢/kWh)	(e) Capacity Energy (¢/kWh)	(f) Revenue (\$000)	(g) Rate (\$/luminaire/ mth)	(h) Non-Capacity Energy (¢/kWh)	(i) Capacity Energy (¢/kWh)	(j) Revenue (\$000)
		Quantity Units								
1	Overhead									
2	Mercury Vapor									
3	100 W	0 Lamps	15.04	4.46	0.00	0	9.02	4.61	0.00	0
4	175 W	3,454 Lamps	18.68	4.46	0.00	910	19.52	4.61	0.00	949
5	250 W	113 Lamps	22.32	4.46	0.00	37	23.35	4.61	0.00	38
6	400 W	916 Lamps	29.40	4.46	0.00	400	30.79	4.61	0.00	418
7	1,000 W	99 Lamps	60.24	4.46	0.00	91	62.85	4.61	0.00	95
8										
9	High Pressure Sodium Vapor									
10	100 W	2,248 Lamps	14.00	4.46	0.00	435	14.62	4.61	0.00	453
11	150 W	0 Lamps	16.71	4.46	0.00	0	17.47	4.61	0.00	0
12	250 W	3,950 Lamps	21.49	4.46	0.00	1,244	22.49	4.61	0.00	1,299
13	360 W	0 Lamps	25.11	4.46	0.00	0	26.66	4.61	0.00	0
14	400 W	2,086 Lamps	26.42	4.46	0.00	843	27.70	4.61	0.00	881
15	1,000 W	59 Lamps	53.23	4.46	0.00	50	55.90	4.61	0.00	52
16										
17	Metal Halide									
18	100 W	0 Lamps	14.03	4.46	0.00	0	12.26	4.61	0.00	0
19	150 W	0 Lamps	16.77	4.46	0.00	0	15.71	4.61	0.00	0
20	175 W	0 Lamps	18.14	4.46	0.00	0	17.43	4.61	0.00	0
21	250 W	0 Lamps	22.25	4.46	0.00	0	22.61	4.61	0.00	0
22	320 W	0 Lamps	26.09	4.46	0.00	0	26.34	4.61	0.00	0
23	400 W	3 Lamps	30.48	4.46	0.00	1	31.80	4.61	0.00	1
24	1,000 W	165 Lamps	63.38	4.46	0.00	158	65.71	4.61	0.00	164
25										
26	LED									
27	20 - 29 W	0 Lamps	11.20	4.46	0.00	0	11.93	4.61	0.00	0
28	30 - 39 W	9 Lamps	11.79	4.46	0.00	1	12.27	4.61	0.00	1
29	40 - 49 W	0 Lamps	12.37	4.46	0.00	0	12.88	4.61	0.00	0
30	50 - 59 W	1,909 Lamps	12.95	4.46	0.00	316	13.48	4.61	0.00	329
31	60 - 69 W	2,053 Lamps	13.53	4.46	0.00	358	14.09	4.61	0.00	373
32	70 - 79 W	230 Lamps	14.12	4.46	0.00	42	14.71	4.61	0.00	44
33	80 - 89 W	10 Lamps	14.70	4.46	0.00	2	15.32	4.61	0.00	2
34	90 - 99 W	0 Lamps	15.28	4.46	0.00	0	15.94	4.61	0.00	0
35	100 - 109 W	0 Lamps	15.86	4.46	0.00	0	16.55	4.61	0.00	0
36	110 - 119 W	6 Lamps	16.45	4.46	0.00	1	17.15	4.61	0.00	1
37	120 - 129 W	0 Lamps	17.03	4.46	0.00	0	17.78	4.61	0.00	0
38	130 - 139 W	2,438 Lamps	17.61	4.46	0.00	577	18.37	4.61	0.00	601
39	140 - 149 W	17 Lamps	18.14	4.46	0.00	4	18.93	4.61	0.00	4
40	150 - 159 W	0 Lamps	18.66	4.46	0.00	0	19.50	4.61	0.00	0
41	160 - 169 W	0 Lamps	19.18	4.46	0.00	0	20.05	4.61	0.00	0
42	170 - 179 W	0 Lamps	19.71	4.46	0.00	0	20.60	4.61	0.00	0
43	180 - 189 W	0 Lamps	20.23	4.46	0.00	0	21.16	4.61	0.00	0
44	190 - 199 W	0 Lamps	20.75	4.46	0.00	0	21.71	4.61	0.00	0
45	200 - 209 W	119 Lamps	21.28	4.46	0.00	35	22.22	4.61	0.00	36
46	210 - 219 W	467 Lamps	21.80	4.46	0.00	141	22.77	4.61	0.00	147
47	220 - 229 W	1 Lamps	22.32	4.46	0.00	0	23.31	4.61	0.00	0
48	230 - 239 W	1,186 Lamps	22.85	4.46	0.00	377	23.87	4.61	0.00	394
49	240 - 249 W	0 Lamps	23.37	4.46	0.00	0	24.48	4.61	0.00	0
50	250 - 259 W	0 Lamps	23.89	4.46	0.00	0	25.04	4.61	0.00	0
51	260 - 269 W	0 Lamps	24.42	4.46	0.00	0	25.59	4.61	0.00	0
52	270 - 279 W	0 Lamps	24.94	4.46	0.00	0	26.14	4.61	0.00	0
53	280 - 289 W	842 Lamps	25.47	4.46	0.00	302	26.62	4.61	0.00	315
54	290 - 299 W	1,592 Lamps	25.99	4.46	0.00	584	27.16	4.61	0.00	610
55	300 - 309 W	0 Lamps	26.51	4.46	0.00	0	27.80	4.61	0.00	0
56	310 - 319 W	0 Lamps	27.04	4.46	0.00	0	28.36	4.61	0.00	0
57	320 - 329 W	0 Lamps	27.56	4.46	0.00	0	28.91	4.61	0.00	0
58	330 - 339 W	0 Lamps	28.08	4.46	0.00	0	29.47	4.61	0.00	0
59	340 - 349 W	0 Lamps	28.61	4.46	0.00	0	30.02	4.61	0.00	0
60	350 - 359 W	0 Lamps	29.13	4.46	0.00	0	30.57	4.61	0.00	0
61	360 - 369 W	0 Lamps	29.65	4.46	0.00	0	31.13	4.61	0.00	0
62	370 - 379 W	0 Lamps	30.18	4.46	0.00	0	31.68	4.61	0.00	0
63	380 - 389 W	0 Lamps	30.70	4.46	0.00	0	32.23	4.61	0.00	0
64	390 - 399 W	8 Lamps	31.22	4.46	0.00	4	32.65	4.61	0.00	4

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No.	(a) Description	(b) Billing Determinants	(c) Present	(d)	(e)	(f)	(g)	(h)	(i)	(j)
				Non-Capacity Energy	Capacity Energy	Revenue	Non-Capacity Energy	Capacity Energy	Revenue	
			Rate (\$/luminaire/ mth)	(¢/kWh)	(¢/kWh)	(\$000)	Rate (\$/luminaire/ mth)	(¢/kWh)	(¢/kWh)	(\$000)
		Quantity	Units							
65	Underground									
66	Mercury Vapor									
67	100 W	19	Lamps	27.60	4.46	0.00	7	26.75	4.61	0.00
68	175 W	18	Lamps	30.35	4.46	0.00	7	29.38	4.61	0.00
69	250 W	1	Lamps	35.65	4.46	0.00	0	34.48	4.61	0.00
70	400 W	30	Lamps	46.25	4.46	0.00	19	44.70	4.61	0.00
71	1,000 W	0	Lamps	86.55	4.46	0.00	0	77.79	4.61	0.00
72										
73	High Pressure Sodium Vapor									
74	70 W	66	Lamps	24.09	4.46	0.00	20	23.36	4.61	0.00
75	100 W	78	Lamps	24.86	4.46	0.00	25	24.08	4.61	0.00
76	150 W	0	Lamps	26.49	4.46	0.00	0	19.20	4.61	0.00
77	250 W	2	Lamps	29.75	4.46	0.00	1	28.75	4.61	0.00
78	400 W	0	Lamps	34.64	4.46	0.00	0	21.71	4.61	0.00
79	1,000 W	0	Lamps	54.21	4.46	0.00	0	27.72	4.61	0.00
80										
81	Metal Halide									
82	100 W	0	Lamps	30.54	4.46	0.00	0	10.99	4.61	0.00
83	150 W	0	Lamps	34.29	4.46	0.00	0	16.49	4.61	0.00
84	175 W	0	Lamps	36.17	4.46	0.00	0	19.24	4.61	0.00
85	250 W	0	Lamps	41.79	4.46	0.00	0	27.48	4.61	0.00
86	400 W	0	Lamps	53.05	4.46	0.00	0	42.14	4.61	0.00
87	1,000 W	2	Lamps	98.08	4.46	0.00	3	96.19	4.61	0.00
88										
89	LED									
90	20 - 29 W	29	Lamps	25.22	4.46	0.00	9	24.49	4.61	0.00
91	30 - 39 W	1,567	Lamps	25.66	4.46	0.00	493	24.91	4.61	0.00
92	40 - 49 W	0	Lamps	26.10	4.46	0.00	0	25.43	4.61	0.00
93	50 - 59 W	103	Lamps	26.55	4.46	0.00	34	25.77	4.61	0.00
94	60 - 69 W	255	Lamps	27.00	4.46	0.00	86	26.20	4.61	0.00
95	70 - 79 W	1,015	Lamps	27.41	4.46	0.00	348	26.59	4.61	0.00
96	80 - 89 W	888	Lamps	27.84	4.46	0.00	311	27.00	4.61	0.00
97	90 - 99 W	5	Lamps	28.25	4.46	0.00	2	27.40	4.61	0.00
98	100 - 109 W	4	Lamps	28.66	4.46	0.00	1	27.79	4.61	0.00
99	110 - 119 W	72	Lamps	29.09	4.46	0.00	27	28.20	4.61	0.00
100	120 - 129 W	0	Lamps	29.49	4.46	0.00	0	28.46	4.61	0.00
101	130 - 139 W	647	Lamps	29.89	4.46	0.00	248	28.97	4.61	0.00
102	140 - 149 W	0	Lamps	30.27	4.46	0.00	0	29.22	4.61	0.00
103	150 - 159 W	0	Lamps	30.65	4.46	0.00	0	29.59	4.61	0.00
104	160 - 169 W	0	Lamps	31.03	4.46	0.00	0	29.97	4.61	0.00
105	170 - 179 W	0	Lamps	31.41	4.46	0.00	0	30.35	4.61	0.00
106	180 - 189 W	0	Lamps	31.79	4.46	0.00	0	30.73	4.61	0.00
107	190 - 199 W	0	Lamps	32.17	4.46	0.00	0	31.11	4.61	0.00
108	200 - 209 W	863	Lamps	32.56	4.46	0.00	370	31.53	4.61	0.00
109	210 - 219 W	0	Lamps	32.94	4.46	0.00	0	31.86	4.61	0.00
110	220 - 229 W	0	Lamps	33.32	4.46	0.00	0	32.24	4.61	0.00
111	230 - 239 W	43	Lamps	33.70	4.46	0.00	19	32.62	4.61	0.00
112	240 - 249 W	0	Lamps	34.08	4.46	0.00	0	33.00	4.61	0.00
113	250 - 259 W	0	Lamps	34.47	4.46	0.00	0	33.38	4.61	0.00
114	260 - 269 W	0	Lamps	34.85	4.46	0.00	0	33.76	4.61	0.00
115	270 - 279 W	72	Lamps	35.23	4.46	0.00	34	34.09	4.61	0.00
116	280 - 289 W	8	Lamps	35.61	4.46	0.00	4	34.45	4.61	0.00
117	290 - 299 W	687	Lamps	35.99	4.46	0.00	335	34.81	4.61	0.00
118	300 - 309 W	0	Lamps	36.37	4.46	0.00	0	35.27	4.61	0.00
119	310 - 319 W	0	Lamps	36.76	4.46	0.00	0	35.65	4.61	0.00
120	320 - 329 W	0	Lamps	37.14	4.46	0.00	0	36.03	4.61	0.00
121	330 - 339 W	0	Lamps	37.52	4.46	0.00	0	36.40	4.61	0.00
122	340 - 349 W	0	Lamps	37.90	4.46	0.00	0	36.78	4.61	0.00
123	350 - 359 W	0	Lamps	38.28	4.46	0.00	0	37.16	4.61	0.00
124	360 - 369 W	0	Lamps	38.66	4.46	0.00	0	37.54	4.61	0.00
125	370 - 379 W	0	Lamps	39.05	4.46	0.00	0	37.92	4.61	0.00
126	380 - 389 W	0	Lamps	39.43	4.46	0.00	0	38.30	4.61	0.00
127	390 - 399 W	0	Lamps	39.81	4.46	0.00	0	38.67	4.61	0.00
128										
129	Lamp Total	30,454	Lamps			9,319				9,555
130										
131	PSCR	27,202	MWh	\$ -		0	\$ -			0
132										
133	Additional Light Credit	581	Lamps	-97.92		(57)	-97.92			(57)
134	Post Charge	2,789	Posts	82.56		230	84.96			237
135										
136	Other Charges									
137		Number of Poles		\$ /Pole/Year			\$ /Pole/Year			
138	New Poles	4,156	Poles	24.48		102	24.48			102
139	Subtotal	30,454	Lamps			9,594				9,836
140	IRM	27,202	MWh	0.002988		81	0.002988			81
141	Nuclear Decommissioning			0.000882		24	0.000882			24
142	Subtotal	30,454	Lamps			9,700				9,942
143										
144		Investment		Carrying Charge/Year			Carrying Charge/Year			
145	Special Facilities	101,439		-18%		(18)	-18%			(18)
146	Subtotal	30,454	Lamps			9,681				9,923
147										
148	Energy Waste Reduction	9,057	Meters	\$5.50		598	\$ 5.50			598
149	REPS	9,057	Meters	0.00%		0	0.00%			0
150	Total Commercial	27,202	MWh			10,279				10,521
151	Increase/Decrease (\$)									242

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Municipal Street Lighting - E1 Option 1 - Company Owned Overhead

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Line No.	(a) Description	(b) Billing Determinants		(c) Rate (\$/luminaire/ mth)	(d) Non-Capacity Energy (¢/kWh)	(e) Capacity Energy (¢/kWh)	(f) Revenue (\$000)	(g) Rate (\$/luminaire/ mth)	(h) Non-Capacity Energy (¢/kWh)	(i) Capacity Energy (¢/kWh)	(j) Revenue (\$000)
		Quantity	Units								
1	Overhead										
2	Mercury Vapor										
3	100 W	97	Lamps	25.34	4.46	0.00	32	26.77	4.61	0.00	33
4	175 W	1,644	Lamps	31.35	4.46	0.00	681	33.14	4.61	0.00	719
5	250 W	0	Lamps	37.52	4.46	0.00	0	40.58	4.61	0.00	0
6	400 W	386	Lamps	49.56	4.46	0.00	261	52.43	4.61	0.00	275
7	1,000 W	0	Lamps	105.40	4.46	0.00	0	100.09	4.61	0.00	0
8											
9	High Pressure Sodium Vapor										
10	70 W	948	Lamps	18.86	4.46	0.00	231	19.93	4.61	0.00	244
11	100 W	5,337	Lamps	21.53	4.46	0.00	1,509	22.76	4.61	0.00	1,593
12	150 W	0	Lamps	25.87	4.46	0.00	0	27.70	4.61	0.00	0
13	250 W	2,049	Lamps	33.61	4.46	0.00	940	35.56	4.61	0.00	991
14	360 W	0	Lamps	42.05	4.46	0.00	0	43.98	4.61	0.00	0
15	400 W	0	Lamps	45.12	4.46	0.00	0	47.49	4.61	0.00	0
16	1,000 W	0	Lamps	82.64	4.46	0.00	0	94.92	4.61	0.00	0
17											
18	Metal Halide										
19	70 W	1	Lamps	24.48	4.46	0.00	0	25.85	4.61	0.00	0
20	100 W	1	Lamps	24.83	4.46	0.00	0	26.23	4.61	0.00	0
21	150 W	0	Lamps	30.17	4.46	0.00	0	32.43	4.61	0.00	0
22	175 W	10	Lamps	32.83	4.46	0.00	4	34.70	4.61	0.00	5
23	250 W	1	Lamps	40.84	4.46	0.00	1	43.18	4.61	0.00	1
24	320 W	0	Lamps	47.70	4.46	0.00	0	51.08	4.61	0.00	0
25	400 W	6	Lamps	55.53	4.46	0.00	4	58.74	4.61	0.00	5
26	1,000 W	1	Lamps	114.64	4.46	0.00	2	121.29	4.61	0.00	2
27											
28	De-Energized										
29	Mercury Vapor										
30	100 W	0	Lamps	16.33	4.46	0.00	0	17.19	4.61	0.00	0.000
31	175 W	1	Lamps	20.78	4.46	0.00	0	21.85	4.61	0.00	0.262
32	250 W	0	Lamps	25.32	4.46	0.00	0	0.00	4.61	0.00	0.000
33	400 W	0	Lamps	33.95	4.46	0.00	0	35.68	4.61	0.00	0.000
34	1,000 W	0	Lamps	78.36	4.46	0.00	0	78.36	4.61	0.00	0.000
35											
36	High Pressure Sodium Vapor										
37	70 W	0	Lamps	12.20	4.46	0.00	0	12.85	4.61	0.00	0.000
38	100 W	4	Lamps	14.18	4.46	0.00	1	14.92	4.61	0.00	0.716
39	150 W	0	Lamps	17.39	4.46	0.00	0	0.00	4.61	0.00	0.000
40	250 W	1	Lamps	23.02	4.46	0.00	0	24.19	4.61	0.00	0.290
41	360 W	0	Lamps	31.20	4.46	0.00	0	31.20	4.61	0.00	0.000
42	400 W	0	Lamps	31.42	4.46	0.00	0	0.00	4.61	0.00	0.000
43	1,000 W	0	Lamps	64.29	4.46	0.00	0	64.29	4.61	0.00	0.000
44											
45	LED										
46	60 - 69 W	0	Lamps	12.16	4.46	0.00	0	12.74	4.61	0.00	0.000
47											
48	Dusk-Midnight										
49	Mercury Vapor										
50	100 W	0	Lamps	24.28	4.46	0.00	0	25.71	4.61	0.00	0.000
51	175 W	0	Lamps	29.50	4.46	0.00	0	31.29	4.61	0.00	0.000
52	250 W	0	Lamps	34.87	4.46	0.00	0	37.93	4.61	0.00	0.000
53	400 W	0	Lamps	45.32	4.46	0.00	0	48.19	4.61	0.00	0.000
54	1,000 W	0	Lamps	103.94	4.46	0.00	0	103.94	4.61	0.00	0.000
55											
56	High Pressure Sodium Vapor										
57	70 W	0	Lamps	18.11	4.46	0.00	0	19.19	4.61	0.00	0.000
58	100 W	0	Lamps	20.47	4.46	0.00	0	21.70	4.61	0.00	0.000
59	150 W	0	Lamps	24.28	4.46	0.00	0	26.11	4.61	0.00	0.000
60	250 W	2	Lamps	30.96	4.46	0.00	1	32.91	4.61	0.00	0.847
61	360 W	0	Lamps	38.23	4.46	0.00	0	40.17	4.61	0.00	0.000
62	400 W	4	Lamps	40.88	4.46	0.00	2	43.25	4.61	0.00	2.250
63	1,000 W	0	Lamps	72.04	4.46	0.00	0	84.32	4.61	0.00	0.000
64											
65	LED										
66	130 - 139 W	5	Lamps	25.97	4.46	0.00	2	26.89	4.61	0.00	1.677
67	280 - 289 W	2	Lamps	36.07	4.46	0.00	1	38.31	4.61	0.00	0.973

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No.	(a) Description	(b) Billing Determinants	(c) Present				(d) Proposed				(f)	(g)	(h)	(i)	(j)
			Rate (\$/luminaire/ mth)	Non- Capacity Energy (¢/kWh)	Capacity Energy (¢/kWh)	Revenue (\$000)	Rate (\$/luminaire/ mth)	Non-Capacity Energy (¢/kWh)	Capacity Energy (¢/kWh)	Revenue (\$000)					
		Quantity Units													
68	LED														
69	20 - 29 W	0 Lamps	15.91	4.46	0.00	0	15.78	4.61	0.00	0					
70	30 - 39 W	3 Lamps	16.65	4.46	0.00	1	16.62	4.61	0.00	1					
71	40 - 49 W	73 Lamps	17.39	4.46	0.00	16	17.71	4.61	0.00	16					
72	50 - 59 W	22,280 Lamps	18.12	4.46	0.00	5,067	18.96	4.61	0.00	5,299					
73	60 - 69 W	36,373 Lamps	19.29	4.46	0.00	8,848	20.22	4.61	0.00	9,269					
74	70 - 79 W	607 Lamps	20.46	4.46	0.00	157	21.48	4.61	0.00	165					
75	80 - 89 W	1,685 Lamps	21.63	4.46	0.00	463	22.74	4.61	0.00	487					
76	90 - 99 W	1,509 Lamps	22.80	4.46	0.00	439	24.00	4.61	0.00	461					
77	100 - 109 W	90 Lamps	23.97	4.46	0.00	28	25.26	4.61	0.00	29					
78	110 - 119 W	3 Lamps	25.14	4.46	0.00	1	26.52	4.61	0.00	1					
79	120 - 129 W	58 Lamps	26.31	4.46	0.00	20	27.78	4.61	0.00	21					
80	130 - 139 W	21,218 Lamps	27.40	4.46	0.00	7,496	28.32	4.61	0.00	7,749					
81	140 - 149 W	165 Lamps	28.27	4.46	0.00	60	29.38	4.61	0.00	63					
82	150 - 159 W	400 Lamps	29.13	4.46	0.00	151	30.44	4.61	0.00	158					
83	160 - 169 W	108 Lamps	30.00	4.46	0.00	42	31.49	4.61	0.00	44					
84	170 - 179 W	53 Lamps	30.86	4.46	0.00	21	32.55	4.61	0.00	22					
85	180 - 189 W	9 Lamps	31.73	4.46	0.00	4	33.54	4.61	0.00	4					
86	190 - 199 W	0 Lamps	32.59	4.46	0.00	0	33.41	4.61	0.00	0					
87	200 - 209 W	150 Lamps	33.46	4.46	0.00	66	35.37	4.61	0.00	69					
88	210 - 219 W	35 Lamps	34.32	4.46	0.00	16	36.28	4.61	0.00	17					
89	220 - 229 W	0 Lamps	34.61	4.46	0.00	0	36.29	4.61	0.00	0					
90	230 - 239 W	699 Lamps	34.90	4.46	0.00	323	36.90	4.61	0.00	340					
91	240 - 249 W	5 Lamps	35.74	4.46	0.00	2	37.79	4.61	0.00	2					
92	250 - 259 W	11 Lamps	36.58	4.46	0.00	5	38.68	4.61	0.00	6					
93	260 - 269 W	0 Lamps	37.41	4.46	0.00	0	40.11	4.61	0.00	0					
94	270 - 279 W	0 Lamps	38.25	4.46	0.00	0	41.07	4.61	0.00	0					
95	280 - 289 W	771 Lamps	39.09	4.46	0.00	401	41.33	4.61	0.00	424					
96	290 - 299 W	14 Lamps	39.93	4.46	0.00	7	42.22	4.61	0.00	8					
97	300 - 309 W	15 Lamps	40.77	4.46	0.00	8	43.11	4.61	0.00	9					
98	310 - 319 W	0 Lamps	41.61	4.46	0.00	0	44.90	4.61	0.00	0					
99	320 - 329 W	4 Lamps	42.45	4.46	0.00	2	44.89	4.61	0.00	2					
100	330 - 339 W	0 Lamps	43.29	4.46	0.00	0	46.81	4.61	0.00	0					
101	340 - 349 W	0 Lamps	44.12	4.46	0.00	0	47.77	4.61	0.00	0					
102	350 - 359 W	0 Lamps	44.96	4.46	0.00	0	48.73	4.61	0.00	0					
103	360 - 369 W	0 Lamps	45.80	4.46	0.00	0	49.69	4.61	0.00	0					
104	370 - 379 W	0 Lamps	46.64	4.46	0.00	0	50.64	4.61	0.00	0					
105	380 - 389 W	0 Lamps	47.48	4.46	0.00	0	51.60	4.61	0.00	0					
106	390 - 399 W	0 Lamps	48.32	4.46	0.00	0	52.56	4.61	0.00	0					
107	Subtotal	96,838 Lamps				27,316				28,539					
108															
109	PSCR	37,920 MWh	0			0	\$ -			0					
110															
111	Multiple Lamp Discount	1,445 Lamps	(\$12.24)			(18)	-12.24			(18)					
112	Subtotal	96,838 Lamps				27,298				28,521					
113	IRM	37,920 MWh	0.005140			195	0.005140			195					
114	Nuclear Decomm.	37,920 MWh	0.000882			33	0.000882			33					
115	Subtotal	96,838 Lamps				27,527				28,749					
116															
117	Energy Optimization	558 Meters	\$5.50			37	\$ 5.50			37					
118															
119	Total E1 - Option 1	37,920 MWh				27,564				28,786					
120	Increase/Decrease (\$)													1,223	

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Municipal Street Lighting - E1 Option I - Company Owned Ornamental

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Line No.	(a) Description	(b) Billing Determinants		(c) Rate (\$/luminaire/ mth)	(d) Non-Capacity Energy (¢/kWh)	(e) Capacity Energy (¢/kWh)	(f) Revenue (\$000)	(g) Rate (\$/luminaire/ mth)	(h) Non-Capacity Energy (¢/kWh)	(i) Capacity Energy (¢/kWh)	(j) Revenue (\$000)
		Quantity	Units								
	Co. Owned Ornamental										
1	Mercury Vapor										
2	100 W	10	Lamps	32.48	4.46	0.00	4	32.39	4.61	0.00	4
3	175 W	830	Lamps	37.64	4.46	0.00	406	37.50	4.61	0.00	406
4	250 W	1	Lamps	45.55	4.46	0.00	1	45.36	4.61	0.00	1
5	400 W	418	Lamps	57.87	4.46	0.00	324	58.06	4.61	0.00	326
6	1,000 W	0	Lamps	118.04	4.46	0.00	0	105.87	4.61	0.00	0
7											
8	High Pressure Sodium Vapor										
9	70 W	73	Lamps	24.77	4.46	0.00	23	24.70	4.61	0.00	23
10	100 W	17,584	Lamps	28.06	4.46	0.00	6,351	27.97	4.61	0.00	6,346
11	150 W	445	Lamps	31.04	4.46	0.00	182	30.91	4.61	0.00	182
12	250 W	2,931	Lamps	38.42	4.46	0.00	1,513	38.66	4.61	0.00	1,527
13	360 W	0	Lamps	46.06	4.46	0.00	0	47.63	4.61	0.00	0
14	400 W	961	Lamps	48.83	4.46	0.00	644	49.85	4.61	0.00	659
15	1,000 W	2	Lamps	92.93	4.46	0.00	3	98.40	4.61	0.00	3
16											
17	Metal Halide										
18	70 W	195	Lamps	34.36	4.46	0.00	83	34.29	4.61	0.00	83
19	100 W	83	Lamps	36.37	4.46	0.00	38	36.28	4.61	0.00	38
20	150 W	14	Lamps	40.05	4.46	0.00	7	42.31	4.61	0.00	8
21	175 W	217	Lamps	40.52	4.46	0.00	114	40.38	4.61	0.00	114
22	250 W	264	Lamps	48.13	4.46	0.00	167	47.94	4.61	0.00	167
23	320 W	0	Lamps	53.97	4.46	0.00	0	54.26	4.61	0.00	0
24	400 W	228	Lamps	60.63	4.46	0.00	185	62.51	4.61	0.00	191
25	1,000 W	0	Lamps	110.60	4.46	0.00	0	105.02	4.61	0.00	0
26											
27	De-Energized										
28	Mercury Vapor	0									
29	100 W	0	Lamps	20.61	4.46	0.00	0	20.56	4.61	0.00	0.000
30	175 W	0	Lamps	24.55	4.46	0.00	0	24.47	4.61	0.00	0.000
31	250 W	0	Lamps	30.14	4.46	0.00	0	30.03	4.61	0.00	0.000
32	400 W	0	Lamps	38.93	4.46	0.00	0	39.05	4.61	0.00	0.000
33	1,000 W	0	Lamps	80.75	4.46	0.00	0	73.45	4.61	0.00	0.000
34											
35	LED										
36	60 - 69 W	27	Lamps	14.66	4.46	0.00	5	14.63	4.61	0.00	4.740
37											
38	High Pressure Sodium Vapor										
39	70 W	0	Lamps	15.75	4.46	0.00	0	15.71	4.61	0.00	0.000
40	100 W	0	Lamps	18.10	4.46	0.00	0	18.05	4.61	0.00	0.000
41	150 W	0	Lamps	20.49	4.46	0.00	0	20.42	4.61	0.00	0.000
42	250 W	17	Lamps	25.90	4.46	0.00	5	26.05	4.61	0.00	5.315
43	360 W	0	Lamps	31.55	4.46	0.00	0	32.50	4.61	0.00	0.000
44	400 W	0	Lamps	33.65	4.46	0.00	0	34.27	4.61	0.00	0.000
45	1,000 W	0	Lamps	66.05	4.46	0.00	0	69.35	4.61	0.00	0.000
46											
47	Dusk-Midnight										
48	Mercury Vapor										
49	100 W	0	Lamps	31.42	4.46	0.00	0	31.33	4.61	0.00	0.000
50	175 W	0	Lamps	35.78	4.46	0.00	0	35.65	4.61	0.00	0.000
51	250 W	0	Lamps	42.90	4.46	0.00	0	42.71	4.61	0.00	0.000
52	400 W	0	Lamps	53.63	4.46	0.00	0	53.82	4.61	0.00	0.000
53	1,000 W	0	Lamps	107.44	4.46	0.00	0	95.27	4.61	0.00	0.000
54											
55	High Pressure Sodium Vapor										
56	70 W	0	Lamps	24.03	4.46	0.00	0	23.96	4.61	0.00	0.000
57	100 W	0	Lamps	27.00	4.46	0.00	0	26.91	4.61	0.00	0.000
58	150 W	0	Lamps	29.45	4.46	0.00	0	29.32	4.61	0.00	0.000
59	250 W	0	Lamps	35.77	4.46	0.00	0	36.01	4.61	0.00	0.000
60	360 W	0	Lamps	42.24	4.46	0.00	0	43.82	4.61	0.00	0.000
61	400 W	0	Lamps	44.59	4.46	0.00	0	45.61	4.61	0.00	0.000
62	1,000 W	0	Lamps	82.33	4.46	0.00	0	87.80	4.61	0.00	0.000
	LED										
	130 - 139 W	21	Lamps	27.95	4.46	0.00	7	28.26	4.61	0.00	7.387

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	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
No.	Description	Billing Determinants		Present			Proposed				
				Rate	Non-Capacity	Capacity	Revenue	Rate	Non-Capacity	Capacity	Revenue
				(\$/luminaire/	Energy	Energy		(\$/luminaire/	Energy	Energy	
		Quantity	Units	mth)	(¢/kWh)	(¢/kWh)	(\$000)	mth)	(¢/kWh)	(¢/kWh)	(\$000)
63	LED										
64	20 - 29 W	0	Lamps	20.50	4.46	0.00	0	19.95	4.61	0.00	0
65	30 - 39 W	3,345	Lamps	21.23	4.46	0.00	873	21.19	4.61	0.00	873
66	40 - 49 W	1	Lamps	21.97	4.46	0.00	0	21.93	4.61	0.00	0
67	50 - 59 W	9,207	Lamps	22.69	4.46	0.00	2,599	22.64	4.61	0.00	2,597
68	60 - 69 W	9,746	Lamps	23.42	4.46	0.00	2,854	23.37	4.61	0.00	2,852
69	70 - 79 W	1,781	Lamps	24.15	4.46	0.00	540	24.09	4.61	0.00	540
70	80 - 89 W	2,315	Lamps	24.88	4.46	0.00	727	24.85	4.61	0.00	727
71	90 - 99 W	119	Lamps	25.78	4.46	0.00	39	25.82	4.61	0.00	39
72	100 - 109 W	508	Lamps	26.68	4.46	0.00	172	26.79	4.61	0.00	173
73	110 - 119 W	367	Lamps	27.58	4.46	0.00	129	27.75	4.61	0.00	130
74	120 - 129 W	4	Lamps	28.48	4.46	0.00	1	28.72	4.61	0.00	1
75	130 - 139 W	21,534	Lamps	29.38	4.46	0.00	8,119	29.69	4.61	0.00	8,217
76	140 - 149 W	216	Lamps	30.18	4.46	0.00	84	30.56	4.61	0.00	85
77	150 - 159 W	1,016	Lamps	30.99	4.46	0.00	406	31.42	4.61	0.00	413
78	160 - 169 W	23	Lamps	31.79	4.46	0.00	9	32.29	4.61	0.00	10
79	170 - 179 W	639	Lamps	32.59	4.46	0.00	270	33.16	4.61	0.00	275
80	180 - 189 W	39	Lamps	33.40	4.46	0.00	17	34.03	4.61	0.00	17
81	190 - 199 W	0	Lamps	34.20	4.46	0.00	0	34.85	4.61	0.00	0
82	200 - 209 W	604	Lamps	35.01	4.46	0.00	276	35.76	4.61	0.00	282
83	210 - 219 W	9	Lamps	35.81	4.46	0.00	4	36.63	4.61	0.00	4
84	220 - 229 W	0	Lamps	36.61	4.46	0.00	0	37.48	4.61	0.00	0
85	230 - 239 W	939	Lamps	37.42	4.46	0.00	462	38.37	4.61	0.00	474
86	240 - 249 W	88	Lamps	38.22	4.46	0.00	44	39.24	4.61	0.00	45
87	250 - 259 W	28	Lamps	39.02	4.46	0.00	14	40.10	4.61	0.00	15
88	260 - 269 W	18	Lamps	39.83	4.46	0.00	9	40.97	4.61	0.00	10
89	270 - 279 W	0	Lamps	40.63	4.46	0.00	0	41.86	4.61	0.00	0
90	280 - 289 W	1,099	Lamps	41.44	4.46	0.00	603	42.71	4.61	0.00	622
91	290 - 299 W	15	Lamps	42.24	4.46	0.00	8	43.58	4.61	0.00	9
92	300 - 309 W	0	Lamps	43.04	4.46	0.00	0	44.49	4.61	0.00	0
93	310 - 319 W	0	Lamps	43.85	4.46	0.00	0	45.36	4.61	0.00	0
94	320 - 329 W	0	Lamps	44.65	4.46	0.00	0	46.24	4.61	0.00	0
95	330 - 339 W	0	Lamps	45.46	4.46	0.00	0	47.12	4.61	0.00	0
96	340 - 349 W	0	Lamps	46.26	4.46	0.00	0	47.99	4.61	0.00	0
97	350 - 359 W	0	Lamps	47.06	4.46	0.00	0	48.87	4.61	0.00	0
98	360 - 369 W	0	Lamps	47.87	4.46	0.00	0	49.75	4.61	0.00	0
99	370 - 379 W	0	Lamps	48.67	4.46	0.00	0	50.62	4.61	0.00	0
100	380 - 389 W	0	Lamps	49.47	4.46	0.00	0	51.50	4.61	0.00	0
101	390 - 399 W	0	Lamps	50.28	4.46	0.00	0	52.37	4.61	0.00	0
102	Subtotal	77,981	Lamps				28,326				28,504
103											
104	PSCR	40,829	MWh	0			0	\$ -			0
105											
106	Post Charge	186		82.56			15	\$84.96			16
107	Long Span Charge	47,327		\$24.48			1,159	\$24.48			1,159
108	Multiple Lamp Discount	3,320		(\$97.92)			(325)	(\$97.92)			(325)
109	Multiple Lamp Discount - Long Span	0		(\$122.40)			0	(\$122.40)			0
110	Two Municipality Discount - Long Span	3,525		(\$61.20)			(216)	(\$61.20)			(216)
111	Semi-Ornamental Discount	639		(\$21.48)			(14)	(\$21.48)			(14)
112	Multiple Lamp Discount - Semi-Orn.	18		(\$76.56)			(1)	(\$76.56)			(1)
113	Subtotal	77,981	Lamps				28,944				29,123
114	IRM	40,829	MWh	0.005140			210	0.005140			210
115	Nuclear Decomm.	40,829	MWh	0.000882			36	0.000882			36
116	Subtotal	77,981	Lamps				29,190				29,368
117											
118	Energy Optimization	563	Meters	\$ 5.50			37	\$ 5.50			37
119											
120	Total E1 - Option 1	40,829	MWh				29,227				29,406
121	Increase/Decrease (\$)										179

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No.	(a) Description	(b) Billing Determinants		(c) Present				(d) Proposed			
				Rate (\$/luminaire/ mth)	Non-Capacity Energy (¢/kWh)	Capacity Energy (¢/kWh)	Revenue (\$000)	Rate (\$/luminaire/ mth)	Non-Capacity Energy (¢/kWh)	Capacity Energy (¢/kWh)	Revenue (\$000)
		Quantity	Units								
	Municipally Owned										
1	Mercury Vapor										
2	175 W	0	Lamps	7.86	4.46	0.00	0	10.16	4.61	0.00	0
3	250 W	0	Lamps	11.23	4.46	0.00	0	14.52	4.61	0.00	0
4	400 W	34	Lamps	17.97	4.46	0.00	10	21.77	4.61	0.00	12
5	1,000 W	0	Lamps	44.93	4.46	0.00	0	51.29	4.61	0.00	0
6											
7	High Pressure Sodium Vapor										
8	70 W	0	Lamps	5.36	4.46	0.00	0	5.87	4.61	0.00	0
9	100 W	0	Lamps	6.56	4.46	0.00	0	7.66	4.61	0.00	0
10	250 W	65	Lamps	12.55	4.46	0.00	14	15.28	4.61	0.00	16
11	360 W	0	Lamps	16.94	4.46	0.00	0	20.34	4.61	0.00	0
12	400 W	20	Lamps	18.53	4.46	0.00	6	22.45	4.61	0.00	7
13	1,000 W	0	Lamps	42.47	4.46	0.00	0	50.89	4.61	0.00	0
14											
15	Metal Halide										
16	70 W	0	Lamps	0.00	4.46	0.00	0	0.00	0.00	0.00	0.00
17	100 W	0	Lamps	0.00	4.46	0.00	0	0.00	0.00	0.00	0.00
18	175 W	0	Lamps	0.00	4.46	0.00	0	0.00	0.00	0.00	0.00
19	250 W	0	Lamps	0.00	4.46	0.00	0	0.00	0.00	0.00	0.00
20	400 W	0	Lamps	0.00	4.46	0.00	0	0.00	0.00	0.00	0.00
21	1,000 W	0	Lamps	0.00	4.46	0.00	0	0.00	0.00	0.00	0.00
22											
23	De-Energized										
24	Mercury Vapor										
25	175 W	0	Lamps	6.68	4.46	0.00	0	8.13	4.61	0.00	0.00
26	250 W	0	Lamps	9.55	4.46	0.00	0	11.61	4.61	0.00	0.00
27	400 W	0	Lamps	14.99	4.46	0.00	0	17.42	4.61	0.00	0.00
28	1,000 W	0	Lamps	36.88	4.46	0.00	0	41.04	4.61	0.00	0.00
29		0									
30	High Pressure Sodium Vapor	0									
31	70 W	0	Lamps	4.11	4.46	0.00	0	4.44	4.61	0.00	0.00
32	100 W	0	Lamps	5.20	4.46	0.00	0	5.90	4.61	0.00	0.00
33	250 W	0	Lamps	10.38	4.46	0.00	0	12.12	4.61	0.00	0.00
34	360 W	0	Lamps	14.07	4.46	0.00	0	16.25	4.61	0.00	0.00
35	400 W	0	Lamps	15.47	4.46	0.00	0	17.97	4.61	0.00	0.00
36	1,000 W	0	Lamps	35.78	4.46	0.00	0	41.19	4.61	0.00	0.00
37											
38	Dusk-Midnight										
39	Mercury Vapor										
40	175 W	0	Lamps	6.01	4.46	0.00	0	8.31	4.61	0.00	0.00
41	250 W	0	Lamps	8.58	4.46	0.00	0	11.87	4.61	0.00	0.00
42	400 W	0	Lamps	13.73	4.46	0.00	0	17.53	4.61	0.00	0.00
43	1,000 W	0	Lamps	34.33	4.46	0.00	0	40.69	4.61	0.00	0.00
44											
45	High Pressure Sodium Vapor										
46	70 W	0	Lamps	4.62	4.46	0.00	0	5.13	4.61	0.00	0.00
47	100 W	0	Lamps	5.50	4.46	0.00	0	6.60	4.61	0.00	0.00
48	250 W	0	Lamps	9.90	4.46	0.00	0	12.63	4.61	0.00	0.00
49	360 W	0	Lamps	13.12	4.46	0.00	0	16.52	4.61	0.00	0.00
50	400 W	0	Lamps	14.29	4.46	0.00	0	18.21	4.61	0.00	0.00
51	1,000 W	0	Lamps	31.87	4.46	0.00	0	40.29	4.61	0.00	0.00
52	Subtotal	119	Lamps	29.89				34.79			
53											
54	PSCR	187	MWh	0			0	\$ -			0
55	Subtotal	119	Lamps					35			
56	IRM	187	MWh	0.005140				1			
57	Nuclear Decommissioning	187	MWh	0.000882				0.000882			
58	Subtotal	119	Lamps	31.01				35.91			
59											
60	Energy Optimization	18	Meters	\$ 5.50			1.19	\$ 5.50			1.19
61											
62	Total E1 - Option II	187	MWh	32				37			
63	Increase/Decrease (\$)							5			

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Municipal Street Lighting - E1 Option III - Energy Only

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Line No.	(a) Description	(b) Billing Determinants		(c) Present			(d) Non-Capacity Energy	(e) Capacity Energy	(f) Revenue	(g) Proposed				(h) Non-Capacity Energy	(i) Capacity Energy	(j) Revenue
		Quantity	Load (kW)	Dist Energy (¢/kWh)	Energy (¢/kWh)	Capacity (¢/kWh)	Revenue (\$000)			Dist Energy (¢/kWh)	Energy (¢/kWh)	Capacity (¢/kWh)	Revenue (\$000)			
	Energy Only Service															
1	Mercury Vapor															
2	100 Watt	12	1	10.88	4.46	0.00	1	12.81	4.61	0.00	1	12.81	4.61	0.00	1	12.81
3	175 Watt	167	29	10.88	4.46	0.00	23	12.81	4.61	0.00	26	12.81	4.61	0.00	26	12.81
4	250 Watt	20	5	10.88	4.46	0.00	4	12.81	4.61	0.00	4	12.81	4.61	0.00	4	12.81
5	400 Watt	138	55	10.88	4.46	0.00	40	12.81	4.61	0.00	45	12.81	4.61	0.00	45	12.81
6	1,000 Watt		0	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
7																
8	High Pressure Sodium Vapor															
9	70 Watt	293	21	10.88	4.46	0.00	18	12.81	4.61	0.00	20	12.81	4.61	0.00	20	12.81
10	100 Watt	8,829	883	10.88	4.46	0.00	768	12.81	4.61	0.00	872	12.81	4.61	0.00	872	12.81
11	150 Watt	1,669	250	10.88	4.46	0.00	215	12.81	4.61	0.00	244	12.81	4.61	0.00	244	12.81
12	250 Watt	986	247	10.88	4.46	0.00	194	12.81	4.61	0.00	220	12.81	4.61	0.00	220	12.81
13	310 Watt	28	9	10.88	4.46	0.00	7	12.81	4.61	0.00	8	12.81	4.61	0.00	8	12.81
14	360 Watt	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
15	400 Watt	423	169	10.88	4.46	0.00	127	12.81	4.61	0.00	144	12.81	4.61	0.00	144	12.81
16	1,000 Watt	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
17		0														
18	Metal Halide	0														
19	70 Watt	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
20	100 Watt	90	9	10.88	4.46	0.00	7	12.81	4.61	0.00	8	12.81	4.61	0.00	8	12.81
21	150 Watt	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
22	175 Watt	135	24	10.88	4.46	0.00	18	12.81	4.61	0.00	21	12.81	4.61	0.00	21	12.81
23	250 Watt	34	9	10.88	4.46	0.00	7	12.81	4.61	0.00	7	12.81	4.61	0.00	7	12.81
24	320 Watt	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
25	400 Watt	33	13	10.88	4.46	0.00	10	12.81	4.61	0.00	11	12.81	4.61	0.00	11	12.81
26	1,000 Watt	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
27	Energy Subtotal	12,857	1,724				1,437									1,632
28																
29	LED															
30	20 - 29 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
31	30 - 39 W	4,585	160	10.88	4.46	0.00	103	12.81	4.61	0.00	117	12.81	4.61	0.00	117	12.81
32	40 - 49 W	155	7	10.88	4.46	0.00	4	12.81	4.61	0.00	5	12.81	4.61	0.00	5	12.81
33	50 - 59 W	1,166	64	10.88	4.46	0.00	41	12.81	4.61	0.00	47	12.81	4.61	0.00	47	12.81
34	60 - 69 W	721	47	10.88	4.46	0.00	30	12.81	4.61	0.00	34	12.81	4.61	0.00	34	12.81
35	70 - 79 W	198	15	10.88	4.46	0.00	10	12.81	4.61	0.00	11	12.81	4.61	0.00	11	12.81
36	80 - 89 W	14,235	1,210	10.88	4.46	0.00	780	12.81	4.61	0.00	885	12.81	4.61	0.00	885	12.81
37	90 - 99 W	205	19	10.88	4.46	0.00	13	12.81	4.61	0.00	14	12.81	4.61	0.00	14	12.81
38	100 - 109 W	14,602	1,533	10.88	4.46	0.00	988	12.81	4.61	0.00	1,122	12.81	4.61	0.00	1,122	12.81
39	110 - 119 W	14,436	1,660	10.88	4.46	0.00	1,070	12.81	4.61	0.00	1,215	12.81	4.61	0.00	1,215	12.81
40	120 - 129 W	931	116	10.88	4.46	0.00	75	12.81	4.61	0.00	85	12.81	4.61	0.00	85	12.81
41	130 - 139 W	7,962	1,075	10.88	4.46	0.00	693	12.81	4.61	0.00	787	12.81	4.61	0.00	787	12.81
42	140 - 149 W	4	1	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
43	150 - 159 W	1,251	194	10.88	4.46	0.00	125	12.81	4.61	0.00	142	12.81	4.61	0.00	142	12.81
44	160 - 169 W	465	77	10.88	4.46	0.00	49	12.81	4.61	0.00	56	12.81	4.61	0.00	56	12.81
45	170 - 179 W	96	17	10.88	4.46	0.00	11	12.81	4.61	0.00	12	12.81	4.61	0.00	12	12.81
46	180 - 189 W	87	16	10.88	4.46	0.00	10	12.81	4.61	0.00	12	12.81	4.61	0.00	12	12.81
47	190 - 199 W	9	2	10.88	4.46	0.00	1	12.81	4.61	0.00	1	12.81	4.61	0.00	1	12.81
48	200 - 209 W	190	39	10.88	4.46	0.00	25	12.81	4.61	0.00	29	12.81	4.61	0.00	29	12.81
49	210 - 219 W	3,084	663	10.88	4.46	0.00	427	12.81	4.61	0.00	485	12.81	4.61	0.00	485	12.81
50	220 - 229 W	269	61	10.88	4.46	0.00	39	12.81	4.61	0.00	44	12.81	4.61	0.00	44	12.81
51	230 - 239 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
52	240 - 249 W	1	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0	12.81	4.61	0.00	0	12.81
53	250 - 259 W	175	45	10.88	4.46	0.00	29	12.81	4.61	0.00	33	12.81	4.61	0.00	33	12.81
54	260 - 269 W	4,438	1,176	10.88	4.46	0.00	758	12.81	4.61	0.00	861	12.81	4.61	0.00	861	12.81
55	270 - 279 W	262	72	10.88	4.46	0.00	46	12.81	4.61	0.00	53	12.81	4.61	0.00	53	12.81

Michigan Public Service Commission
DTE Electric Company
Staff Present and Proposed Revenue by Rate Schedule
Municipal Street Lighting - E1 Option III - Energy Only (Cont'd)

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Line No.	(a) Description	(b) Billing Determinants	(c)	(d) Present	(e)	(f)	(g)	(h) Proposed	(i)	(j)	
				Non-Capacity Energy	Capacity Energy	Revenue	Dist Energy	Non-Capacity Energy	Capacity Energy	Revenue	
		Quantity	Load (kW)	(¢/kWh)	(¢/kWh)	(\$000)	(¢/kWh)	(¢/kWh)	(¢/kWh)	(\$000)	
56	Energy Only Service										
56	LED										
57	280 - 289 W	13	4	10.88	4.46	0.00	2	12.81	4.61	0.00	3
58	290 - 299 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0
59	300 - 309 W	5	2	10.88	4.46	0.00	1	12.81	4.61	0.00	1
60	310 - 319 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0
61	320 - 329 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0
62	330 - 339 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0
63	340 - 349 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0
64	350 - 359 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0
65	360 - 369 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0
66	370 - 379 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0
67	380 - 389 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0
68	390 - 399 W	0	0	10.88	4.46	0.00	0	12.81	4.61	0.00	0
69	LED Subtotal	69,545	8,275			5,331				6,054	
70											
71	PSCR	44,120	MWh	0		0	\$ -			0	
72	Subtotal	82,402				6,768				7,687	
73	IRM	44,120	MWh	0.005140		227	0.005140			227	
74	Nuclear Decommissioning	44,120	MWh	0.000882		39	0.000882			39	
75	Subtotal	44,120	MWh			7,034				7,952	
76											
77	Energy Optimization	40	Meters	\$ 5.50		2.65	\$ 5.50			2.65	
78											
79	Total E1 - Option III	44,120	MWh			7,036				7,955	
80	Increase/Decrease (\$)									919	
	Total E1 - Options I, II and III	123,056	MWh			63,859				66,184	

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Witness: D.W. Isakson

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DTE Electric Company
Case No. U-21534
Staff Comparison of Monthly Bills

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Non-Transmitting Meter - D1

Case No.: U-21534
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Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge **\$0.07809**

Capacity Charges:

First 17 KWH/Day **\$0.01128**

Excess **\$0.01626**

Power Supply Surcharges: **\$0.00000**

REPS **\$0.00**

Service Charge **\$8.50**

Distribution Charge: **\$0.08137**

Delivery Surcharges: **\$0.004375**

LIEAF **\$0.88**

Proposed Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge **\$0.05654**

Capacity Charges:

First 17 KWH/Day **\$0.03118**

Excess **\$0.04495**

Power Supply Surcharges: **\$0.00000**

REPS **\$0.00**

Service Charge: **\$8.50**

Distribution Charge: **\$0.08962**

Delivery Surcharges: **\$0.004375**

LIEAF **\$0.88**

Line No.	(a) Monthly kWh Use	(b) Present Net Monthly Bill	(c) Proposed Net Monthly Bill	(d) Increase		(f) Proposed Unit Cost
				Amount	Percent	
1	100	\$26.89	\$27.55	\$0.66	2.45%	27.55¢
2	120	\$30.39	\$31.19	\$0.79	2.61%	25.99¢
3	140	\$33.90	\$34.82	\$0.92	2.73%	24.87¢
4	160	\$37.40	\$38.45	\$1.06	2.82%	24.03¢
5	180	\$40.90	\$42.09	\$1.19	2.90%	23.38¢
6	200	\$44.40	\$45.72	\$1.32	2.97%	22.86¢
7	240	\$51.41	\$52.99	\$1.58	3.08%	22.08¢
8	280	\$58.41	\$60.26	\$1.85	3.16%	21.52¢
9	300	\$61.91	\$63.89	\$1.98	3.20%	21.30¢
10	350	\$70.67	\$72.98	\$2.31	3.27%	20.85¢
11	400	\$79.43	\$82.07	\$2.64	3.32%	20.52¢
12	450	\$88.18	\$91.15	\$2.97	3.37%	20.26¢
13	500	\$96.94	\$100.24	\$3.30	3.40%	20.05¢
14	550	\$105.89	\$109.87	\$3.98	3.76%	19.98¢
15	600	\$114.90	\$119.65	\$4.75	4.14%	19.94¢
16	650	\$123.90	\$129.42	\$5.52	4.46%	19.91¢
17	700	\$132.91	\$139.20	\$6.29	4.73%	19.89¢
18	750	\$141.91	\$148.97	\$7.06	4.97%	19.86¢
19	800	\$150.92	\$158.75	\$7.83	5.19%	19.84¢
20	850	\$159.92	\$168.52	\$8.60	5.38%	19.83¢
21	900	\$168.93	\$178.29	\$9.37	5.55%	19.81¢
22	950	\$177.93	\$188.07	\$10.14	5.70%	19.80¢
23	1,000	\$186.94	\$197.84	\$10.91	5.83%	19.78¢
24	1,100	\$204.94	\$217.39	\$12.45	6.07%	19.76¢
25	1,200	\$222.95	\$236.94	\$13.99	6.27%	19.74¢
26	1,300	\$240.96	\$256.49	\$15.52	6.44%	19.73¢
27	1,400	\$258.97	\$276.04	\$17.06	6.59%	19.72¢
28	1,500	\$276.98	\$295.58	\$18.60	6.72%	19.71¢
29	2,000	\$367.03	\$393.33	\$26.30	7.16%	19.67¢
30	2,750	\$502.10	\$539.94	\$37.84	7.54%	19.63¢
31	4,000	\$727.22	\$784.30	\$57.08	7.85%	19.61¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Interruptible Space-Conditioning Service Rate - D1.1 Residential
June thru October

Case No.: U-21534
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Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Non Capacity Charge \$0.06085

Capacity Charge \$0.01089

Power Supply Surcharges: \$0.00000

Distribution Charges:

Service Charge: \$1.95

Distribution Energy \$0.08137

Delivery Surcharges: \$0.004375

Proposed Rates and Current Surcharges:

Power Supply Charges:

Non Capacity Charge \$0.04414

Capacity Charge \$0.02976

Power Supply Surcharges: \$0.00000

Distribution Charges:

Service Charge: \$1.95

Distribution Energy \$0.08962

Delivery Surcharges: \$0.004375

Line No.	(a) Monthly kWh Use	(b) Present Net Monthly Bill	(c) Proposed Net Monthly Bill	(d) Increase		(f) Proposed Unit Cost
				Amount	Percent	
1	100	\$17.70	\$18.74	\$1.04	5.88%	18.74¢
2	120	\$20.85	\$22.10	\$1.25	5.99%	18.41¢
3	140	\$24.00	\$25.46	\$1.46	6.07%	18.18¢
4	160	\$27.15	\$28.81	\$1.67	6.14%	18.01¢
5	180	\$30.30	\$32.17	\$1.87	6.18%	17.87¢
6	200	\$33.45	\$35.53	\$2.08	6.22%	17.76¢
7	240	\$39.75	\$42.24	\$2.50	6.29%	17.60¢
8	280	\$46.05	\$48.96	\$2.91	6.33%	17.49¢
9	300	\$49.20	\$52.32	\$3.12	6.35%	17.44¢
10	350	\$57.07	\$60.71	\$3.64	6.38%	17.35¢
11	400	\$64.94	\$69.11	\$4.16	6.41%	17.28¢
12	450	\$72.82	\$77.50	\$4.68	6.43%	17.22¢
13	500	\$80.69	\$85.90	\$5.21	6.45%	17.18¢
14	550	\$88.57	\$94.29	\$5.73	6.46%	17.14¢
15	600	\$96.44	\$102.69	\$6.25	6.48%	17.11¢
16	650	\$104.32	\$111.08	\$6.77	6.49%	17.09¢
17	700	\$112.19	\$119.48	\$7.29	6.50%	17.07¢
18	750	\$120.06	\$127.87	\$7.81	6.50%	17.05¢
19	800	\$127.94	\$136.27	\$8.33	6.51%	17.03¢
20	850	\$135.81	\$144.66	\$8.85	6.52%	17.02¢
21	900	\$143.69	\$153.06	\$9.37	6.52%	17.01¢
22	950	\$151.56	\$161.45	\$9.89	6.53%	16.99¢
23	1,000	\$159.44	\$169.85	\$10.41	6.53%	16.98¢
24	1,100	\$175.18	\$186.63	\$11.45	6.54%	16.97¢
25	1,200	\$190.93	\$203.42	\$12.49	6.54%	16.95¢
26	1,300	\$206.68	\$220.21	\$13.53	6.55%	16.94¢
27	1,400	\$222.43	\$237.00	\$14.57	6.55%	16.93¢
28	1,500	\$238.18	\$253.79	\$15.62	6.56%	16.92¢
29	2,000	\$316.92	\$337.74	\$20.82	6.57%	16.89¢
30	3,000	\$474.41	\$505.64	\$31.23	6.58%	16.85¢
31	4,000	\$631.89	\$673.53	\$41.64	6.59%	16.84¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Interruptible Space-Conditioning Service Rate - D1.1 Residential
November thru May

Case No.: U-21534
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Witness: D.W. Isakson
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Present Rates and Current Surcharges:
Power Supply Charges:

Non Capacity Charge \$0.06085

Capacity Charge \$0.00270

Power Supply Surcharges: \$0.00000

Distribution Charges:
Service Charge: \$0.00

Distribution Energy \$0.08137

Delivery Surcharges: \$0.004375

Proposed Rates and Current Surcharges:
Power Supply Charges:

Non Capacity Charge \$0.04414

Capacity Charge \$0.00738

Power Supply Surcharges: \$0.00000

Distribution Charges:
Service Charge: \$0.00

Distribution Energy \$0.08962

Delivery Surcharges: \$0.004375

Line No.	(a) Monthly kWh Use	(b) Present Net Monthly Bill	(c) Proposed Net Monthly Bill	(d) Increase		(f) Proposed Unit Cost
				Amount	Percent	
1	100	\$14.93	\$14.55	-\$0.38	-2.53%	14.55¢
2	120	\$17.92	\$17.46	-\$0.45	-2.53%	14.55¢
3	140	\$20.90	\$20.37	-\$0.53	-2.53%	14.55¢
4	160	\$23.89	\$23.28	-\$0.60	-2.53%	14.55¢
5	180	\$26.87	\$26.19	-\$0.68	-2.53%	14.55¢
6	200	\$29.86	\$29.10	-\$0.76	-2.53%	14.55¢
7	240	\$35.83	\$34.92	-\$0.91	-2.53%	14.55¢
8	280	\$41.80	\$40.74	-\$1.06	-2.53%	14.55¢
9	300	\$44.79	\$43.65	-\$1.13	-2.53%	14.55¢
10	350	\$52.25	\$50.93	-\$1.32	-2.53%	14.55¢
11	400	\$59.72	\$58.21	-\$1.51	-2.53%	14.55¢
12	450	\$67.18	\$65.48	-\$1.70	-2.53%	14.55¢
13	500	\$74.65	\$72.76	-\$1.89	-2.53%	14.55¢
14	550	\$82.11	\$80.03	-\$2.08	-2.53%	14.55¢
15	600	\$89.58	\$87.31	-\$2.27	-2.53%	14.55¢
16	650	\$97.04	\$94.58	-\$2.46	-2.53%	14.55¢
17	700	\$104.51	\$101.86	-\$2.65	-2.53%	14.55¢
18	750	\$111.97	\$109.14	-\$2.84	-2.53%	14.55¢
19	800	\$119.44	\$116.41	-\$3.02	-2.53%	14.55¢
20	850	\$126.90	\$123.69	-\$3.21	-2.53%	14.55¢
21	900	\$134.37	\$130.96	-\$3.40	-2.53%	14.55¢
22	950	\$141.83	\$138.24	-\$3.59	-2.53%	14.55¢
23	1,000	\$149.30	\$145.52	-\$3.78	-2.53%	14.55¢
24	1,100	\$164.22	\$160.07	-\$4.16	-2.53%	14.55¢
25	1,200	\$179.15	\$174.62	-\$4.54	-2.53%	14.55¢
26	1,300	\$194.08	\$189.17	-\$4.91	-2.53%	14.55¢
27	1,400	\$209.01	\$203.72	-\$5.29	-2.53%	14.55¢
28	1,500	\$223.94	\$218.27	-\$5.67	-2.53%	14.55¢
29	2,000	\$298.59	\$291.03	-\$7.56	-2.53%	14.55¢
30	3,000	\$447.89	\$436.55	-\$11.34	-2.53%	14.55¢
31	4,000	\$597.18	\$582.06	-\$15.12	-2.53%	14.55¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Rate Enhanced TOU - D1.2
June thru October

Case No.: U-21534
Exhibit: S-6
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Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge
On-Peak Energy Rate: **\$0.13949**
Off-Peak Energy Rate: **\$0.04696**

Capacity Charges:
On-Peak Energy Rate: **\$0.01690**
Off-Peak Energy Rate: **\$0.00569**

Power Supply Surcharges: **\$0.00000**
REPS **\$0.00**

Distribution Charges:
Service Charge: **\$8.50**
Distribution Energy **\$0.08137**

Delivery Surcharges: **\$0.004375**
LIEAF **\$0.88**

Proposed Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge
On-Peak Energy Rate: **\$0.11146**
Off-Peak Energy Rate: **\$0.03752**

Capacity Charges:
On-Peak Energy Rate: **\$0.04758**
Off-Peak Energy Rate: **\$0.01602**

Power Supply Surcharges: **\$0.00000**
REPS **\$0.00**

Distribution Charges:
Service Charge: **\$8.50**
Distribution Energy **\$0.08962**

Delivery Surcharges: **\$0.004375**
LIEAF **\$0.88**

Line No.	(a) Monthly kWh Use	(b) On-Peak Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Increase Percent	(g) Proposed Unit Cost
1	100	20%	\$25.29	\$26.24	\$0.95	3.75%	26.24¢
2	100	25%	\$25.81	\$26.77	\$0.96	3.71%	26.77¢
3	100	30%	\$26.33	\$27.30	\$0.97	3.67%	27.30¢
4							
5	200	20%	\$41.21	\$43.11	\$1.90	4.61%	21.55¢
6	200	25%	\$42.25	\$44.16	\$1.92	4.54%	22.08¢
7	200	30%	\$43.28	\$45.22	\$1.93	4.47%	22.61¢
8							
9	300	20%	\$57.12	\$59.97	\$2.85	4.99%	19.99¢
10	300	25%	\$58.68	\$61.55	\$2.87	4.90%	20.52¢
11	300	30%	\$60.24	\$63.14	\$2.90	4.82%	21.05¢
12							
13	400	20%	\$73.04	\$76.83	\$3.80	5.20%	19.21¢
14	400	25%	\$75.11	\$78.94	\$3.83	5.10%	19.74¢
15	400	30%	\$77.19	\$81.05	\$3.87	5.01%	20.26¢
16							
17	500	20%	\$88.95	\$93.70	\$4.75	5.34%	18.74¢
18	500	25%	\$91.55	\$96.34	\$4.79	5.23%	19.27¢
19	500	30%	\$94.14	\$98.97	\$4.83	5.13%	19.79¢
20							
21	600	20%	\$104.87	\$110.56	\$5.70	5.43%	18.43¢
22	600	25%	\$107.98	\$113.73	\$5.75	5.32%	18.95¢
23	600	30%	\$111.09	\$116.89	\$5.80	5.22%	19.48¢
24							
25	700	20%	\$120.78	\$127.42	\$6.64	5.50%	18.20¢
26	700	25%	\$124.41	\$131.12	\$6.71	5.39%	18.73¢
27	700	30%	\$128.04	\$134.81	\$6.77	5.29%	19.26¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Rate Enhanced TOU - D1.2
June thru October

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Line No.	(a) Monthly kWh Use	(b) On-Peak Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Increase Percent	(g) Proposed Unit Cost
28	800	20%	\$136.69	\$144.29	\$7.59	5.56%	18.04¢
29	800	25%	\$140.84	\$148.51	\$7.66	5.44%	18.56¢
30	800	30%	\$144.99	\$152.73	\$7.73	5.33%	19.09¢
31							
32	1,000	20%	\$168.52	\$178.02	\$9.49	5.63%	17.80¢
33	1,000	25%	\$173.71	\$183.29	\$9.58	5.51%	18.33¢
34	1,000	30%	\$178.90	\$188.57	\$9.67	5.40%	18.86¢
35							
36	1,100	20%	\$184.44	\$194.88	\$10.44	5.66%	17.72¢
37	1,100	25%	\$190.14	\$200.68	\$10.54	5.54%	18.24¢
38	1,100	30%	\$195.85	\$206.48	\$10.63	5.43%	18.77¢
39							
40	1,200	20%	\$200.35	\$211.74	\$11.39	5.69%	17.65¢
41	1,200	25%	\$206.58	\$218.07	\$11.50	5.57%	18.17¢
42	1,200	30%	\$212.80	\$224.40	\$11.60	5.45%	18.70¢
43							
44	1,300	20%	\$216.27	\$228.61	\$12.34	5.71%	17.59¢
45	1,300	25%	\$223.01	\$235.46	\$12.45	5.58%	18.11¢
46	1,300	30%	\$229.75	\$242.32	\$12.57	5.47%	18.64¢
47							
48	1,400	20%	\$232.18	\$245.47	\$13.29	5.72%	17.53¢
49	1,400	25%	\$239.44	\$252.85	\$13.41	5.60%	18.06¢
50	1,400	30%	\$246.70	\$260.24	\$13.54	5.49%	18.59¢
51							
52	1,500	20%	\$248.09	\$262.33	\$14.24	5.74%	17.49¢
53	1,500	25%	\$255.88	\$270.25	\$14.37	5.62%	18.02¢
54	1,500	30%	\$263.66	\$278.16	\$14.50	5.50%	18.54¢
55							
56	2,000	20%	\$327.67	\$346.65	\$18.98	5.79%	17.33¢
57	2,000	25%	\$338.04	\$357.20	\$19.16	5.67%	17.86¢
58	2,000	30%	\$348.41	\$367.75	\$19.34	5.55%	18.39¢
59							
60	3,000	20%	\$486.81	\$515.29	\$28.48	5.85%	17.18¢
61	3,000	25%	\$502.37	\$531.11	\$28.74	5.72%	17.70¢
62	3,000	30%	\$517.93	\$546.94	\$29.00	5.60%	18.23¢
63							
64	4,000	20%	\$645.95	\$683.92	\$37.97	5.88%	17.10¢
65	4,000	25%	\$666.70	\$705.02	\$38.32	5.75%	17.63¢
66	4,000	30%	\$687.45	\$726.12	\$38.67	5.63%	18.15¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Rate Enhanced TOU - D1.2
November thru May

Case No.: U-21534
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Present Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge
On-Peak Energy Rate: **\$0.11783**
Off-Peak Energy Rate: **\$0.04512**

Capacity Charges:
On-Peak Energy Rate: **\$0.01427**
Off-Peak Energy Rate: **\$0.00547**

Power Supply Surcharges: **\$0.00000**
REPS **\$0.00**

Distribution Charges:
Service Charge: **\$8.50**

Distribution Energy **\$0.08137**

Delivery Surcharges: **\$0.004375**
LIEAF **\$0.88**

Proposed Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge
On-Peak Energy Rate: **\$0.09415**
Off-Peak Energy Rate: **\$0.03606**

Capacity Charges:
On-Peak Energy Rate: **\$0.04019**
Off-Peak Energy Rate: **\$0.01539**

Power Supply Surcharges: **\$0.00000**
REPS **\$0.00**

Distribution Charges:
Service Charge: **\$8.50**

Distribution Energy **\$0.08962**

Delivery Surcharges: **\$0.004375**
LIEAF **\$0.88**

Line No.	(a) Monthly kWh Use	(b) On-Peak Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Increase Percent	(g) Proposed Unit Cost
1	100	20%	\$24.64	\$25.58	\$0.94	3.81%	25.58¢
2	100	25%	\$25.05	\$26.00	\$0.95	3.77%	26.00¢
3	100	30%	\$25.46	\$26.41	\$0.95	3.74%	26.41¢
4							
5	200	20%	\$39.91	\$41.78	\$1.88	4.70%	20.89¢
6	200	25%	\$40.72	\$42.61	\$1.89	4.64%	21.31¢
7	200	30%	\$41.54	\$43.44	\$1.90	4.59%	21.72¢
8							
9	300	20%	\$55.17	\$57.99	\$2.82	5.10%	19.33¢
10	300	25%	\$56.39	\$59.23	\$2.84	5.03%	19.74¢
11	300	30%	\$57.62	\$60.47	\$2.86	4.96%	20.16¢
12							
13	400	20%	\$70.43	\$74.19	\$3.75	5.33%	18.55¢
14	400	25%	\$72.07	\$75.85	\$3.78	5.25%	18.96¢
15	400	30%	\$73.70	\$77.50	\$3.81	5.17%	19.38¢
16							
17	500	20%	\$85.70	\$90.39	\$4.69	5.48%	18.08¢
18	500	25%	\$87.74	\$92.46	\$4.73	5.39%	18.49¢
19	500	30%	\$89.77	\$94.54	\$4.76	5.30%	18.91¢
20							
21	600	20%	\$100.96	\$106.59	\$5.63	5.58%	17.77¢
22	600	25%	\$103.41	\$109.08	\$5.67	5.49%	18.18¢
23	600	30%	\$105.85	\$111.57	\$5.71	5.40%	18.59¢
24							
25	700	20%	\$116.23	\$122.80	\$6.57	5.65%	17.54¢
26	700	25%	\$119.08	\$125.70	\$6.62	5.56%	17.96¢
27	700	30%	\$121.93	\$128.60	\$6.67	5.47%	18.37¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Rate Enhanced TOU - D1.2
November thru May

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Line No.	(a) Monthly kWh Use	(b) On-Peak Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Increase Percent	(g) Proposed Unit Cost
28	800	20%	\$131.49	\$139.00	\$7.51	5.71%	17.37¢
29	800	25%	\$134.75	\$142.31	\$7.56	5.61%	17.79¢
30	800	30%	\$138.01	\$145.63	\$7.62	5.52%	18.20¢
31							
32	1,000	20%	\$162.02	\$171.40	\$9.39	5.79%	17.14¢
33	1,000	25%	\$166.09	\$175.55	\$9.45	5.69%	17.55¢
34	1,000	30%	\$170.17	\$179.69	\$9.52	5.60%	17.97¢
35							
36	1,100	20%	\$177.28	\$187.61	\$10.32	5.82%	17.06¢
37	1,100	25%	\$181.76	\$192.16	\$10.40	5.72%	17.47¢
38	1,100	30%	\$186.25	\$196.72	\$10.48	5.63%	17.88¢
39							
40	1,200	20%	\$192.54	\$203.81	\$11.26	5.85%	16.98¢
41	1,200	25%	\$197.44	\$208.78	\$11.35	5.75%	17.40¢
42	1,200	30%	\$202.33	\$213.75	\$11.43	5.65%	17.81¢
43							
44	1,300	20%	\$207.81	\$220.01	\$12.20	5.87%	16.92¢
45	1,300	25%	\$213.11	\$225.40	\$12.29	5.77%	17.34¢
46	1,300	30%	\$218.40	\$230.79	\$12.38	5.67%	17.75¢
47							
48	1,400	20%	\$223.07	\$236.21	\$13.14	5.89%	16.87¢
49	1,400	25%	\$228.78	\$242.01	\$13.24	5.79%	17.29¢
50	1,400	30%	\$234.48	\$247.82	\$13.33	5.69%	17.70¢
51							
52	1,500	20%	\$238.34	\$252.41	\$14.08	5.91%	16.83¢
53	1,500	25%	\$244.45	\$258.63	\$14.18	5.80%	17.24¢
54	1,500	30%	\$250.56	\$264.85	\$14.29	5.70%	17.66¢
55							
56	2,000	20%	\$314.65	\$333.43	\$18.77	5.97%	16.67¢
57	2,000	25%	\$322.81	\$341.72	\$18.91	5.86%	17.09¢
58	2,000	30%	\$330.96	\$350.00	\$19.05	5.76%	17.50¢
59							
60	3,000	20%	\$467.29	\$495.45	\$28.16	6.03%	16.51
61	3,000	25%	\$479.52	\$507.88	\$28.37	5.92%	16.93
62	3,000	30%	\$491.74	\$520.32	\$28.57	5.81%	17.34
63							
64	4,000	20%	\$619.93	\$657.47	\$37.54	6.06%	16.44
65	4,000	25%	\$636.23	\$674.05	\$37.82	5.94%	16.85
66	4,000	30%	\$652.53	\$690.63	\$38.10	5.84%	17.27

Michigan Public Service Commission
DTE Electric Company
Comparison of Present and Proposed Monthly Bills
Residential Service Rate Special Low Income Pilot - D1.6

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Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge: \$0.07809

Capacity Charges:

First 17 KWH/Day \$0.01128

Excess \$0.01626

Power Supply Surcharges: **\$0.00000**
REPS **\$0.00**

Service Charge \$8.50
Distribution Charge: \$0.08137
Income Assistance **(\$40.00)**

Delivery Surcharges: \$0.004375
LIEAF \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge: \$0.05654

Capacity Charges:

First 17 KWH/Day \$0.03118

Excess \$0.04495

Power Supply Surcharges: **\$0.00000**
REPS **\$0.00**

Service Charge: \$8.50
Distribution Charge: \$0.08962
Income Assistance **(\$50.00)**

Delivery Surcharges: \$0.004375
LIEAF \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line No.	Monthly kWh Use	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed Unit Cost
				Amount	Percent	
1	300	\$21.91	\$13.89	-\$8.02	-36.60%	4.63¢
2	350	\$30.67	\$22.98	-\$7.69	-25.07%	6.57¢
3	400	\$39.43	\$32.07	-\$7.36	-18.67%	8.02¢
4	450	\$48.18	\$41.15	-\$7.03	-14.59%	9.14¢
5	500	\$56.94	\$50.24	-\$6.70	-11.77%	10.05¢
6	550	\$65.89	\$59.87	-\$6.02	-9.13%	10.89¢
7	600	\$74.90	\$69.65	-\$5.25	-7.01%	11.61¢
8	650	\$83.90	\$79.42	-\$4.48	-5.34%	12.22¢
9	700	\$92.91	\$89.20	-\$3.71	-3.99%	12.74¢
10	750	\$101.91	\$98.97	-\$2.94	-2.89%	13.20¢
11	800	\$110.92	\$108.75	-\$2.17	-1.96%	13.59¢
12	850	\$119.92	\$118.52	-\$1.40	-1.17%	13.94¢
13	900	\$128.93	\$128.29	-\$0.63	-0.49%	14.25¢
14	950	\$137.93	\$138.07	\$0.14	0.10%	14.53¢
15	1,000	\$146.94	\$147.84	\$0.91	0.62%	14.78¢
16	1,100	\$164.94	\$167.39	\$2.45	1.48%	15.22¢
17	1,200	\$182.95	\$186.94	\$3.99	2.18%	15.58¢
18	1,300	\$200.96	\$206.49	\$5.52	2.75%	15.88¢
19	1,400	\$218.97	\$226.04	\$7.06	3.23%	16.15¢
20	1,500	\$236.98	\$245.58	\$8.60	3.63%	16.37¢
21	2,000	\$327.03	\$343.33	\$16.30	4.98%	17.17¢
22	2,750	\$462.10	\$489.94	\$27.84	6.02%	17.82¢
23	4,000	\$687.22	\$734.30	\$47.08	6.85%	18.36¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Geothermal Time of Day Rate - D1.7 Residential
June thru September

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Present Rates and Current Surcharges:

Power Supply Charges

Non-Capacity Charge: \$0.04582

Capacity Charges:

On-Peak Energy Rate \$0.04248

Off-Peak Energy Rate \$0.00001

Power Supply Surcharges \$0.00000

Distribution Charges

Service Charge \$2.01

Distribution Energy \$0.08137

Delivery Surcharges \$0.004375

Proposed Rates and Current Surcharges:

Power Supply Charges

Non-Capacity Charge:

On-Peak Energy Rate \$0.08439

Off-Peak Energy Rate \$0.02795

Capacity Charges:

On-Peak Energy Rate \$0.05409

Off-Peak Energy Rate \$0.01792

Power Supply Surcharges \$0.00000

Distribution Charges

Service Charge \$2.01

Distribution Energy \$0.08962

Delivery Surcharges \$0.004375

Line No.	(a) Monthly kWh Use	(b) On-Peak Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	Increase		(g) Proposed Unit Cost
					Amount	Percent	
1	100	20%	\$16.02	\$17.85	\$1.83	11.44%	17.85¢
2	100	25%	\$16.23	\$18.31	\$2.08	12.83%	18.31¢
3	100	30%	\$16.44	\$18.77	\$2.33	14.19%	18.77¢
4							
5	200	20%	\$30.02	\$33.69	\$3.66	12.20%	16.84¢
6	200	25%	\$30.45	\$34.61	\$4.17	13.68%	17.31¢
7	200	30%	\$30.87	\$35.54	\$4.67	15.11%	17.77¢
8							
9	300	20%	\$44.03	\$49.53	\$5.50	12.48%	16.51¢
10	300	25%	\$44.67	\$50.92	\$6.25	13.99%	16.97¢
11	300	30%	\$45.30	\$52.30	\$7.00	15.45%	17.43¢
12							
13	400	20%	\$58.04	\$65.36	\$7.33	12.62%	16.34¢
14	400	25%	\$58.89	\$67.22	\$8.33	14.15%	16.80¢
15	400	30%	\$59.74	\$69.07	\$9.33	15.62%	17.27¢
16							
17	500	20%	\$72.04	\$81.20	\$9.16	12.71%	16.24¢
18	500	25%	\$73.11	\$83.52	\$10.41	14.24%	16.70¢
19	500	30%	\$74.17	\$85.83	\$11.67	15.73%	17.17¢
20							
21	600	20%	\$86.05	\$97.04	\$10.99	12.77%	16.17¢
22	600	25%	\$87.33	\$99.82	\$12.50	14.31%	16.64¢
23	600	30%	\$88.60	\$102.60	\$14.00	15.80%	17.10¢
24							
25	700	20%	\$100.06	\$112.88	\$12.82	12.82%	16.13¢
26	700	25%	\$101.54	\$116.12	\$14.58	14.36%	16.59¢
27	700	30%	\$103.03	\$119.36	\$16.33	15.85%	17.05¢
28							
29	800	20%	\$114.07	\$128.72	\$14.65	12.85%	16.09¢
30	800	25%	\$115.76	\$132.42	\$16.66	14.39%	16.55¢
31	800	30%	\$117.46	\$136.13	\$18.67	15.89%	17.02¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Geothermal Time of Day Rate - D1.7 Residential
June thru September

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Line No.	(a) Monthly kWh Use	(b) On-Peak Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase		(f) Proposed Unit Cost
					Amount	Percent	
32	1,000	20%	\$142.08	\$160.40	\$18.32	12.89%	16.04¢
33	1,000	25%	\$144.20	\$165.03	\$20.83	14.44%	16.50¢
34	1,000	30%	\$146.33	\$169.66	\$23.33	15.95%	16.97¢
35							
36	1,100	20%	\$156.09	\$176.24	\$20.15	12.91%	16.02¢
37	1,100	25%	\$158.42	\$181.33	\$22.91	14.46%	16.48¢
38	1,100	30%	\$160.76	\$186.42	\$25.67	15.97%	16.95¢
39							
40	1,200	20%	\$170.09	\$192.07	\$21.98	12.92%	16.01¢
41	1,200	25%	\$172.64	\$197.63	\$24.99	14.48%	16.47¢
42	1,200	30%	\$175.19	\$203.19	\$28.00	15.98%	16.93¢
43							
44	1,300	20%	\$184.10	\$207.91	\$23.81	12.94%	15.99¢
45	1,300	25%	\$186.86	\$213.93	\$27.07	14.49%	16.46¢
46	1,300	30%	\$189.62	\$219.95	\$30.33	16.00%	16.92¢
47							
48	1,400	20%	\$198.11	\$223.75	\$25.65	12.95%	15.98¢
49	1,400	25%	\$201.08	\$230.23	\$29.16	14.50%	16.45¢
50	1,400	30%	\$204.05	\$236.72	\$32.66	16.01%	16.91¢
51							
52	1,500	20%	\$212.11	\$239.59	\$27.48	12.95%	15.97¢
53	1,500	25%	\$215.30	\$246.54	\$31.24	14.51%	16.44¢
54	1,500	30%	\$218.48	\$253.48	\$35.00	16.02%	16.90¢
55							
56	2,000	20%	\$282.15	\$318.78	\$36.64	12.98%	15.94¢
57	2,000	25%	\$286.40	\$328.05	\$41.65	14.54%	16.40¢
58	2,000	30%	\$290.64	\$337.31	\$46.66	16.06%	16.87¢
59							
60	3,000	20%	\$422.22	\$477.17	\$54.95	13.02%	15.91¢
61	3,000	25%	\$428.59	\$491.06	\$62.48	14.58%	16.37¢
62	3,000	30%	\$434.96	\$504.95	\$70.00	16.09%	16.83¢
63							
64	4,000	20%	\$562.29	\$635.56	\$73.27	13.03%	15.89¢
65	4,000	25%	\$570.78	\$654.08	\$83.30	14.59%	16.35¢
66	4,000	30%	\$579.27	\$672.60	\$93.33	16.11%	16.82¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Geothermal Time of Day Rate - D1.7 Residential
October thru May

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Present Rates and Current Surcharges:

Power Supply Charges

Non-Capacity Charge: 0.04582
On-Peak Energy Rate
Off-Peak Energy Rate

Capacity Charges:
On-Peak Energy Rate \$0.01717
Off-Peak Energy Rate \$0.00369

Power Supply Surcharges \$0.00000

Distribution Charges

Service Charge \$2.01
Distribution Energy \$0.08137

Delivery Surcharges \$0.004375

Proposed Rates and Current Surcharges:

Power Supply Charges

Non-Capacity Charge:
On-Peak Energy Rate \$0.03646
Off-Peak Energy Rate \$0.02865

Capacity Charges:
On-Peak Energy Rate \$0.02337
Off-Peak Energy Rate \$0.01836

Power Supply Surcharges \$0.00000

Distribution Charges

Service Charge \$2.01
Distribution Energy \$0.08962

Delivery Surcharges \$0.004375

Line No.	(a) Monthly kWh Use	(b) On-Peak Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Increase Percent	(g) Proposed Unit Cost
1	100	20%	\$15.81	\$16.37	\$0.56	3.55%	16.37¢
2	100	25%	\$15.87	\$16.43	\$0.56	3.52%	16.43¢
3	100	30%	\$15.94	\$16.50	\$0.56	3.48%	16.50¢
4							
5	200	20%	\$29.60	\$30.72	\$1.12	3.80%	15.36¢
6	200	25%	\$29.74	\$30.85	\$1.12	3.76%	15.43¢
7	200	30%	\$29.87	\$30.98	\$1.11	3.72%	15.49¢
8							
9	300	20%	\$43.40	\$45.08	\$1.69	3.88%	15.03¢
10	300	25%	\$43.60	\$45.27	\$1.68	3.84%	15.09¢
11	300	30%	\$43.80	\$45.47	\$1.67	3.80%	15.16¢
12							
13	400	20%	\$57.19	\$59.44	\$2.25	3.93%	14.86¢
14	400	25%	\$57.46	\$59.69	\$2.23	3.89%	14.92¢
15	400	30%	\$57.73	\$59.95	\$2.22	3.85%	14.99¢
16							
17	500	20%	\$70.99	\$73.79	\$2.81	3.96%	14.76¢
18	500	25%	\$71.32	\$74.12	\$2.79	3.92%	14.82¢
19	500	30%	\$71.66	\$74.44	\$2.78	3.87%	14.89¢
20							
21	600	20%	\$84.78	\$88.15	\$3.37	3.98%	14.69¢
22	600	25%	\$85.19	\$88.54	\$3.35	3.93%	14.76¢
23	600	30%	\$85.59	\$88.92	\$3.33	3.89%	14.82¢
24							
25	700	20%	\$98.58	\$102.51	\$3.93	3.99%	14.64¢
26	700	25%	\$99.05	\$102.96	\$3.91	3.95%	14.71¢
27	700	30%	\$99.52	\$103.41	\$3.89	3.91%	14.77¢
28							
29	800	20%	\$112.37	\$116.87	\$4.49	4.00%	14.61¢
30	800	25%	\$112.91	\$117.38	\$4.47	3.96%	14.67¢
31	800	30%	\$113.45	\$117.89	\$4.44	3.92%	14.74¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Geothermal Time of Day Rate - D1.7 Residential
October thru May

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Line No.	(a) Monthly kWh Use	(b) On-Peak Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase		(f) Proposed Unit Cost
					Amount	Percent	
32	1,000	20%	\$139.96	\$145.58	\$5.62	4.01%	14.56¢
33	1,000	25%	\$140.64	\$146.22	\$5.59	3.97%	14.62¢
34	1,000	30%	\$141.31	\$146.86	\$5.55	3.93%	14.69¢
35							
36	1,100	20%	\$153.76	\$159.94	\$6.18	4.02%	14.54¢
37	1,100	25%	\$154.50	\$160.64	\$6.14	3.98%	14.60¢
38	1,100	30%	\$155.24	\$161.35	\$6.11	3.93%	14.67¢
39							
40	1,200	20%	\$167.55	\$174.29	\$6.74	4.02%	14.52¢
41	1,200	25%	\$168.36	\$175.06	\$6.70	3.98%	14.59¢
42	1,200	30%	\$169.17	\$175.83	\$6.66	3.94%	14.65¢
43							
44	1,300	20%	\$181.35	\$188.65	\$7.30	4.03%	14.51¢
45	1,300	25%	\$182.22	\$189.48	\$7.26	3.98%	14.58¢
46	1,300	30%	\$183.10	\$190.32	\$7.22	3.94%	14.64¢
47							
48	1,400	20%	\$195.14	\$203.01	\$7.87	4.03%	14.50¢
49	1,400	25%	\$196.09	\$203.90	\$7.82	3.99%	14.56¢
50	1,400	30%	\$197.03	\$204.80	\$7.77	3.95%	14.63¢
51							
52	1,500	20%	\$208.94	\$217.36	\$8.43	4.03%	14.49¢
53	1,500	25%	\$209.95	\$218.33	\$8.38	3.99%	14.56¢
54	1,500	30%	\$210.96	\$219.29	\$8.33	3.95%	14.62¢
55							
56	2,000	20%	\$277.91	\$289.15	\$11.24	4.04%	14.46¢
57	2,000	25%	\$279.26	\$290.43	\$11.17	4.00%	14.52¢
58	2,000	30%	\$280.61	\$291.71	\$11.10	3.96%	14.59¢
59							
60	3,000	20%	\$415.86	\$432.72	\$16.85	4.05%	14.42¢
61	3,000	25%	\$417.89	\$434.64	\$16.76	4.01%	14.49¢
62	3,000	30%	\$419.91	\$436.56	\$16.66	3.97%	14.55¢
63							
64	4,000	20%	\$553.81	\$576.29	\$22.47	4.06%	14.41¢
65	4,000	25%	\$556.51	\$578.85	\$22.34	4.01%	14.47¢
66	4,000	30%	\$559.21	\$581.41	\$22.21	3.97%	14.54¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Rate Dynamic Peak Pricing - D1.8

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Present Rates and Current Surcharges:
Power Supply Charges

Non-Capacity Charge:
Off-Peak Energy Rate \$0.03940
Mid-Peak Energy Rate \$0.07635
On-Peak Energy Rate \$0.14747
Critical Peak Rate \$0.14747

Capacity Charges:
Off-Peak Energy Rate \$0.00590
Mid-Peak Energy Rate \$0.01144
On-Peak Energy Rate \$0.02067
Critical Peak Rate \$0.80253

Power Supply Surcharges \$0.00000
REPS \$0.00

Distribution Charges
Service Charge \$8.50
Distribution Energy \$0.08137

Delivery Surcharges \$0.004375
LIEAF \$0.88

Proposed Rates and Current Surcharges:
Power Supply Charges

Non-Capacity Charge:
Off-Peak Energy Rate \$0.02808
Mid-Peak Energy Rate \$0.05443
On-Peak Energy Rate \$0.10608
Critical Peak Rate \$0.10608

Capacity Charges:
Off-Peak Energy Rate \$0.01786
Mid-Peak Energy Rate \$0.03461
On-Peak Energy Rate \$0.06630
Critical Peak Rate \$0.08439

Power Supply Surcharges \$0.00000
REPS \$0.00

Distribution Charges
Service Charge \$8.50
Distribution Energy \$0.08962

Delivery Surcharges \$0.004375
LIEAF \$0.88

Line No.	(a) Monthly kWh Use	(b) Present Net Monthly Bill	(c) Proposed Net Monthly Bill	(d) Increase		(e) Percent	(f) Proposed Unit Cost
				Amount			
1	100	\$25.61	\$26.53	\$0.92		3.59%	26.53¢
2	120	\$28.85	\$29.96	\$1.10		3.82%	24.96¢
3	160	\$35.35	\$36.82	\$1.47		4.16%	23.01¢
4	180	\$38.59	\$40.25	\$1.65		4.29%	22.36¢
5	200	\$41.84	\$43.68	\$1.84		4.39%	21.84¢
6	240	\$48.33	\$50.54	\$2.21		4.57%	21.06¢
7	280	\$54.82	\$57.39	\$2.57		4.70%	20.50¢
8	300	\$58.07	\$60.82	\$2.76		4.75%	20.27¢
9	350	\$66.18	\$69.40	\$3.22		4.86%	19.83¢
10	400	\$74.29	\$77.97	\$3.68		4.95%	19.49¢
11	450	\$82.41	\$86.55	\$4.14		5.02%	19.23¢
12	500	\$90.52	\$95.12	\$4.60		5.08%	19.02¢
13	550	\$98.64	\$103.69	\$5.06		5.13%	18.85¢
14	600	\$106.75	\$112.27	\$5.52		5.17%	18.71¢
15	650	\$114.87	\$120.84	\$5.98		5.20%	18.59¢
16	700	\$122.98	\$129.42	\$6.44		5.23%	18.49¢
17	750	\$131.09	\$137.99	\$6.89		5.26%	18.40¢
18	800	\$139.21	\$146.56	\$7.35		5.28%	18.32¢
19	850	\$147.32	\$155.14	\$7.81		5.30%	18.25¢
20	900	\$155.44	\$163.71	\$8.27		5.32%	18.19¢
21	950	\$163.55	\$172.29	\$8.73		5.34%	18.14¢
22	1,000	\$171.67	\$180.86	\$9.19		5.36%	18.09¢
23	1,100	\$187.89	\$198.01	\$10.11		5.38%	18.00¢
24	1,200	\$204.12	\$215.16	\$11.03		5.40%	17.93¢
25	1,300	\$220.35	\$232.30	\$11.95		5.42%	17.87¢
26	1,400	\$236.58	\$249.45	\$12.87		5.44%	17.82¢
27	1,500	\$252.81	\$266.60	\$13.79		5.45%	17.77¢
28	2,000	\$333.95	\$352.34	\$18.39		5.51%	17.62¢
29	3,000	\$496.24	\$523.82	\$27.58		5.56%	17.46¢
30	4,000	\$658.52	\$695.30	\$36.77		5.58%	17.38¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Electric Vehicle Rate - D1.9

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Present Rates and Current Surcharges:

Power Supply Charges	
Non-Capacity Charges	
On-Peak Energy Rate	\$0.14635
Off-Peak Energy Rate	\$0.03657
Capacity Charges:	
On-Peak Energy Rate	\$0.02470
Off-Peak Energy Rate	\$0.00618
Power Supply Surcharges	
	\$0.00000
Distribution Charges	
Service Charge	\$1.95
Distribution Energy	\$0.08137
Delivery Surcharges	
	\$0.004375

Proposed Rates and Current Surcharges:

Power Supply Charges	
Non-Capacity Charges	
On-Peak Energy Rate	\$0.10606
Off-Peak Energy Rate	\$0.02650
Capacity Charges:	
On-Peak Energy Rate	\$0.06793
Off-Peak Energy Rate	\$0.01700
Power Supply Surcharges	
	\$0.00000
Distribution Charges	
Service Charge	\$1.95
Distribution Energy	\$0.08962
Delivery Surcharges	
	\$0.004375

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Line No.	Monthly kWh Use	On-Peak Use	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed Unit Cost
					Amount	Percent	
1	100	20%	\$17.37	\$18.31	\$0.94	5.43%	18.31¢
2	100	25%	\$18.01	\$18.96	\$0.95	5.30%	18.96¢
3	100	30%	\$18.65	\$19.61	\$0.97	5.18%	19.61¢
4							
5	200	20%	\$32.78	\$34.67	\$1.89	5.76%	17.33¢
6	200	25%	\$34.06	\$35.97	\$1.91	5.61%	17.99¢
7	200	30%	\$35.35	\$37.28	\$1.93	5.46%	18.64¢
8							
9	300	20%	\$48.20	\$51.03	\$2.83	5.87%	17.01¢
10	300	25%	\$50.12	\$52.99	\$2.86	5.71%	17.66¢
11	300	30%	\$52.05	\$54.94	\$2.90	5.57%	18.31¢
12							
13	400	20%	\$63.61	\$67.39	\$3.78	5.93%	16.85¢
14	400	25%	\$66.18	\$70.00	\$3.82	5.77%	17.50¢
15	400	30%	\$68.74	\$72.61	\$3.86	5.62%	18.15¢
16							
17	500	20%	\$79.03	\$83.75	\$4.72	5.97%	16.75¢
18	500	25%	\$82.24	\$87.01	\$4.77	5.81%	17.40¢
19	500	30%	\$85.44	\$90.27	\$4.83	5.65%	18.05¢
20							
21	600	20%	\$94.44	\$100.11	\$5.66	6.00%	16.68¢
22	600	25%	\$98.29	\$104.02	\$5.73	5.83%	17.34¢
23	600	30%	\$102.14	\$107.94	\$5.79	5.67%	17.99¢
24							
25	700	20%	\$109.86	\$116.47	\$6.61	6.01%	16.64¢
26	700	25%	\$114.35	\$121.03	\$6.68	5.84%	17.29¢
27	700	30%	\$118.84	\$125.60	\$6.76	5.69%	17.94¢
28							
29	800	20%	\$125.27	\$132.82	\$7.55	6.03%	16.60¢
30	800	25%	\$130.41	\$138.04	\$7.64	5.86%	17.26¢
31	800	30%	\$135.54	\$143.26	\$7.73	5.70%	17.91¢
32							
33	1,000	20%	\$156.11	\$165.54	\$9.44	6.05%	16.55¢
34	1,000	25%	\$162.52	\$172.07	\$9.55	5.87%	17.21¢
35	1,000	30%	\$168.94	\$178.59	\$9.66	5.72%	17.86¢

Michigan Public Service Commission

DTE Electric Company

Staff Comparison of Present and Proposed Monthly Bills

Residential Service Rate Standard TOU - D1.11

June Thru September

Case No.: U-21534

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Witness: D.W. Isakson

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Present Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge

June-Sept On Peak **\$0.12201**

June-Sept Off Peak **\$0.07354**

Capacity Charges:

June-Sept On Peak **\$0.02060**

June-Sept Off Peak **\$0.01241**

Power Supply Surcharges:

REPS \$0.00000

Service Charge: \$8.50

Distribution Charge: \$0.08137

Delivery Surcharges: \$0.004375

LIEAF \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge

June-Sept On Peak **\$0.08837**

June-Sept Off Peak **\$0.05324**

Capacity Charges:

June-Sept On Peak **\$0.05664**

June-Sept Off Peak **\$0.03412**

Power Supply Surcharges:

REPS \$0.00000

Service Charge: \$8.50

Distribution Charge: \$0.08962

Delivery Surcharges: \$0.004375

LIEAF \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line	Monthly	Present Net	Proposed Net	Increase		Proposed
No.	kWh Use	Monthly Bill	Monthly Bill	Amount	Percent	Unit Cost
1	100	\$27.48	\$28.46	\$0.98	3.57%	28.46¢
2	120	\$31.10	\$32.27	\$1.18	3.79%	26.90¢
3	140	\$34.72	\$36.09	\$1.38	3.96%	25.78¢
4	160	\$38.33	\$39.91	\$1.57	4.10%	24.94¢
5	180	\$41.95	\$43.72	\$1.77	4.21%	24.29¢
6	200	\$45.57	\$47.54	\$1.96	4.31%	23.77¢
7	240	\$52.81	\$55.17	\$2.36	4.46%	22.99¢
8	280	\$60.05	\$62.80	\$2.75	4.58%	22.43¢
9	300	\$63.67	\$66.62	\$2.95	4.63%	22.21¢
10	350	\$72.72	\$76.16	\$3.44	4.73%	21.76¢
11	400	\$81.77	\$85.69	\$3.93	4.80%	21.42¢
12	450	\$90.81	\$95.23	\$4.42	4.87%	21.16¢
13	500	\$99.86	\$104.77	\$4.91	4.92%	20.95¢
14	550	\$108.91	\$114.31	\$5.40	4.96%	20.78¢
15	600	\$117.96	\$123.85	\$5.89	5.00%	20.64¢
16	650	\$127.01	\$133.39	\$6.38	5.03%	20.52¢
17	700	\$136.06	\$142.93	\$6.88	5.05%	20.42¢
18	750	\$145.10	\$152.47	\$7.37	5.08%	20.33¢
19	800	\$154.15	\$162.01	\$7.86	5.10%	20.25¢
20	850	\$163.20	\$171.55	\$8.35	5.12%	20.18¢
21	900	\$172.25	\$181.09	\$8.84	5.13%	20.12¢
22	950	\$181.30	\$190.63	\$9.33	5.15%	20.07¢
23	1,000	\$190.34	\$200.17	\$9.82	5.16%	20.02¢
24	1,100	\$208.44	\$219.25	\$10.80	5.18%	19.93¢
25	1,200	\$226.54	\$238.32	\$11.79	5.20%	19.86¢
26	1,300	\$244.63	\$257.40	\$12.77	5.22%	19.80¢
27	1,400	\$262.73	\$276.48	\$13.75	5.23%	19.75¢
28	1,500	\$280.83	\$295.56	\$14.73	5.25%	19.70¢
29	2,000	\$371.31	\$390.95	\$19.64	5.29%	19.55¢
30	2,750	\$507.03	\$534.04	\$27.01	5.33%	19.42¢
31	4,000	\$733.24	\$772.53	\$39.29	5.36%	19.31¢

Assumes ~16% of June-September usage is on peak (per rate design billing determinants)

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Rate Standard TOU - D1.11
October thru May

Case No.: U-21534
Exhibit: S-6
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Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge
Oct-May On Peak \$0.08518
Oct-May Off Peak \$0.07354

Capacity Charges:
Oct-May On Peak \$0.01438
Oct-May Off Peak \$0.01241

Power Supply Surcharges: \$0.00000
REPS \$0.00

Service Charge \$8.50
Distribution Charge: \$0.08137

Delivery Surcharges: \$0.004375
LIEAF \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge
Oct-May On Peak \$0.06232
Oct-May Off Peak \$0.05324

Capacity Charges:
Oct-May On Peak \$0.03994
Oct-May Off Peak \$0.03412

Power Supply Surcharges: \$0.00000
REPS \$0.00

Service Charge: \$8.50
Distribution Charge: \$0.08962

Delivery Surcharges: \$0.004375
LIEAF \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line	Monthly	Present Net	Proposed Net	Increase		Proposed
No.	kWh Use	Monthly Bill	Monthly Bill	Amount	Percent	Unit Cost
1	100	\$26.73	\$27.71	\$0.98	3.68%	27.71¢
2	120	\$30.19	\$31.37	\$1.18	3.91%	26.15¢
3	140	\$33.66	\$35.04	\$1.38	4.09%	25.03¢
4	160	\$37.13	\$38.71	\$1.57	4.23%	24.19¢
5	180	\$40.60	\$42.37	\$1.77	4.36%	23.54¢
6	200	\$44.07	\$46.04	\$1.97	4.46%	23.02¢
7	240	\$51.01	\$53.37	\$2.36	4.62%	22.24¢
8	280	\$57.95	\$60.70	\$2.75	4.75%	21.68¢
9	300	\$61.42	\$64.37	\$2.95	4.80%	21.46¢
10	350	\$70.09	\$73.53	\$3.44	4.91%	21.01¢
11	400	\$78.76	\$82.69	\$3.93	4.99%	20.67¢
12	450	\$87.44	\$91.86	\$4.42	5.06%	20.41¢
13	500	\$96.11	\$101.02	\$4.91	5.11%	20.20¢
14	550	\$104.78	\$110.19	\$5.40	5.16%	20.03¢
15	600	\$113.45	\$119.35	\$5.90	5.20%	19.89¢
16	650	\$122.13	\$128.51	\$6.39	5.23%	19.77¢
17	700	\$130.80	\$137.68	\$6.88	5.26%	19.67¢
18	750	\$139.47	\$146.84	\$7.37	5.28%	19.58¢
19	800	\$148.15	\$156.01	\$7.86	5.31%	19.50¢
20	850	\$156.82	\$165.17	\$8.35	5.33%	19.43¢
21	900	\$165.49	\$174.34	\$8.84	5.34%	19.37¢
22	950	\$174.16	\$183.50	\$9.34	5.36%	19.32¢
23	1,000	\$182.84	\$192.66	\$9.83	5.37%	19.27¢
24	1,100	\$200.18	\$210.99	\$10.81	5.40%	19.18¢
25	1,200	\$217.53	\$229.32	\$11.79	5.42%	19.11¢
26	1,300	\$234.87	\$247.65	\$12.78	5.44%	19.05¢
27	1,400	\$252.22	\$265.98	\$13.76	5.45%	19.00¢
28	1,500	\$269.57	\$284.31	\$14.74	5.47%	18.95¢
29	2,000	\$356.29	\$375.95	\$19.65	5.52%	18.80¢
30	2,750	\$486.39	\$513.41	\$27.02	5.56%	18.67¢
31	4,000	\$703.21	\$742.51	\$39.31	5.59%	18.56¢

Assumes ~13% of Oct-May usage is on peak (per rate design billing determinants)

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Rate Overnight Savers - D1.13
June Thru September

Case No.: U-21534
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Present Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge
June-Sept On Peak \$0.13470
June-Sept Off Peak \$0.09031
June-Sept Super Off Peak \$0.05816

Capacity Charges:

June-Sept On Peak \$0.02274
June-Sept Off Peak \$0.01525
June-Sept Super Off Peak \$0.00982

Power Supply Surcharges: \$0.00000
REPS \$0.00000

Service Charge: \$8.50
Distribution Charge:
June-Sept On Peak \$0.16298
June-Sept Off Peak \$0.12224
June-Sept Super Off Peak \$0.04075

Delivery Surcharges: \$0.004375
LIEAF \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge
June-Sept On Peak \$0.09832
June-Sept Off Peak \$0.06616
June-Sept Super Off Peak \$0.04178

Capacity Charges:

June-Sept On Peak \$0.06301
June-Sept Off Peak \$0.04240
June-Sept Super Off Peak \$0.02678

Power Supply Surcharges: \$0.00000
REPS \$0.00

Service Charge: \$8.50
Distribution Charge:
June-Sept On Peak \$0.18050
June-Sept Off Peak \$0.13537
June-Sept Super Off Peak \$0.04512

Delivery Surcharges: \$0.004375
LIEAF \$0.88

Line No.	(a) Monthly kWh Use	(b) Present Net Monthly Bill	(c) Proposed Net Monthly Bill	(d) Increase		(f) Proposed Unit Cost
				Amount	Percent	
1	100	\$31.95	\$33.45	\$1.50	4.68%	33.45¢
2	120	\$36.47	\$38.26	\$1.80	4.93%	31.89¢
3	140	\$40.98	\$43.08	\$2.10	5.11%	30.77¢
4	160	\$45.50	\$47.89	\$2.40	5.26%	29.93¢
5	180	\$50.01	\$52.71	\$2.69	5.39%	29.28¢
6	200	\$54.53	\$57.52	\$2.99	5.49%	28.76¢
7	240	\$63.56	\$67.15	\$3.59	5.65%	27.98¢
8	280	\$72.59	\$76.78	\$4.19	5.77%	27.42¢
9	300	\$77.10	\$81.59	\$4.49	5.82%	27.20¢
10	350	\$88.39	\$93.63	\$5.24	5.93%	26.75¢
11	400	\$99.68	\$105.66	\$5.99	6.01%	26.42¢
12	450	\$110.96	\$117.70	\$6.74	6.07%	26.16¢
13	500	\$122.25	\$129.73	\$7.49	6.12%	25.95¢
14	550	\$133.54	\$141.77	\$8.23	6.17%	25.78¢
15	600	\$144.82	\$153.80	\$8.98	6.20%	25.63¢
16	650	\$156.11	\$165.84	\$9.73	6.23%	25.51¢
17	700	\$167.40	\$177.88	\$10.48	6.26%	25.41¢
18	750	\$178.68	\$189.91	\$11.23	6.28%	25.32¢
19	800	\$189.97	\$201.95	\$11.98	6.30%	25.24¢
20	850	\$201.26	\$213.98	\$12.72	6.32%	25.17¢
21	900	\$212.54	\$226.02	\$13.47	6.34%	25.11¢
22	950	\$223.83	\$238.05	\$14.22	6.35%	25.06¢
23	1,000	\$235.12	\$250.09	\$14.97	6.37%	25.01¢
24	1,100	\$257.69	\$274.16	\$16.47	6.39%	24.92¢
25	1,200	\$280.27	\$298.23	\$17.96	6.41%	24.85¢
26	1,300	\$302.84	\$322.30	\$19.46	6.43%	24.79¢
27	1,400	\$325.41	\$346.37	\$20.96	6.44%	24.74¢
28	1,500	\$347.99	\$370.44	\$22.46	6.45%	24.70¢
29	2,000	\$460.86	\$490.80	\$29.94	6.50%	24.54¢
30	2,750	\$630.16	\$671.33	\$41.17	6.53%	24.41¢
31	4,000	\$912.33	\$972.21	\$59.88	6.56%	24.31¢

Assumes June-Sept is 16% on peak, 66% off peak, and 18% super off peak (per rate design billing determinants)

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Rate Overnight Savers - D1.13
October thru May

Case No.: U-21534
Exhibit: S-6
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Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge
Oct-May On Peak \$0.07692
Oct-May Off Peak \$0.06967
Oct-May Super Off Peak \$0.05816

Capacity Charges:

Oct-May On Peak \$0.01298
Oct-May Off Peak \$0.01176
Oct-May Super Off Peak \$0.00982

Power Supply Surcharges: \$0.00000
REPS \$0.00

Service Charge \$8.50
Distribution Charge:
Oct-May On Peak \$0.08149
Oct-May Off Peak \$0.06112
Oct-May Super Off Peak \$0.04075

Delivery Surcharges: \$0.004375
LIEAF \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge
Oct-May On Peak \$0.05608
Oct-May Off Peak \$0.05033
Oct-May Super Off Peak \$0.04178

Capacity Charges:

Oct-May On Peak \$0.03594
Oct-May Off Peak \$0.32260
Oct-May Super Off Peak \$0.02678

Power Supply Surcharges: \$0.00000
REPS \$0.00

Service Charge \$8.50
Distribution Charge:
Oct-May On Peak \$0.09025
Oct-May Off Peak \$0.06769
Oct-May Super Off Peak \$0.04512

Delivery Surcharges: \$0.004375
LIEAF \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line No.	Monthly kWh Use	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase Amount	Percent	Proposed Unit Cost
1	100	\$23.70	\$43.42	\$19.72	83.19%	43.42¢
2	120	\$26.57	\$50.23	\$23.66	89.07%	41.86¢
3	140	\$29.43	\$57.04	\$27.61	93.80%	40.74¢
4	160	\$32.30	\$63.85	\$31.55	97.69%	39.91¢
5	180	\$35.16	\$70.66	\$35.50	100.95%	39.25¢
6	200	\$38.03	\$77.47	\$39.44	103.71%	38.73¢
7	240	\$43.76	\$91.08	\$47.33	108.16%	37.95¢
8	280	\$49.49	\$104.70	\$55.22	111.58%	37.39¢
9	300	\$52.35	\$111.51	\$59.16	113.01%	37.17¢
10	350	\$59.51	\$128.53	\$69.02	115.97%	36.72¢
11	400	\$66.67	\$145.55	\$78.88	118.31%	36.39¢
12	450	\$73.84	\$162.57	\$88.74	120.18%	36.13¢
13	500	\$81.00	\$179.60	\$98.60	121.73%	35.92¢
14	550	\$88.16	\$196.62	\$108.46	123.03%	35.75¢
15	600	\$95.32	\$213.64	\$118.32	124.13%	35.61¢
16	650	\$102.48	\$230.66	\$128.18	125.07%	35.49¢
17	700	\$109.64	\$247.68	\$138.04	125.90%	35.38¢
18	750	\$116.81	\$264.70	\$147.90	126.62%	35.29¢
19	800	\$123.97	\$281.73	\$157.76	127.26%	35.22¢
20	850	\$131.13	\$298.75	\$167.62	127.83%	35.15¢
21	900	\$138.29	\$315.77	\$177.48	128.34%	35.09¢
22	950	\$145.45	\$332.79	\$187.34	128.80%	35.03¢
23	1,000	\$152.61	\$349.81	\$197.20	129.21%	34.98¢
24	1,100	\$166.94	\$383.86	\$216.92	129.94%	34.90¢
25	1,200	\$181.26	\$417.90	\$236.64	130.55%	34.82¢
26	1,300	\$195.59	\$451.94	\$256.36	131.07%	34.76¢
27	1,400	\$209.91	\$485.99	\$276.08	131.52%	34.71¢
28	1,500	\$224.23	\$520.03	\$295.80	131.91%	34.67¢
29	2,000	\$295.85	\$690.24	\$394.39	133.31%	34.51¢
30	2,750	\$403.28	\$945.57	\$542.29	134.47%	34.38¢
31	4,000	\$582.32	\$1,371.11	\$788.79	135.46%	34.28¢

Assumes Oct-May is 13% on peak, 65% off peak, and 22% super off peak (per rate design billing determinants)

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Rate Space Heating - D2
June thru October

Case No.: U-21534
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Witness: D.W. Isakson
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Present Rates and Current Surcharges:
Power Supply Charges:

Non-Capacity Charge: \$0.06274

Capacity Charges:
First 17 KWH/Day \$0.01059
Excess \$0.01514

Power Supply Surcharges \$0.00000
REPS \$0.00

Service Charge \$8.50
Distribution Charge \$0.08137

Delivery Surcharges \$0.004375
LIEAF \$0.88

Proposed Rates and Current Surcharges:
Power Supply Charges:

Non-Capacity Charge: \$0.05166

Capacity Charges:
First 17 KWH/Day \$0.02996
Excess \$0.04283

Power Supply Surcharges \$0.00000
REPS \$0.00

Service Charge \$8.50
Distribution Charge \$0.08962

Delivery Surcharges \$0.004375
LIEAF \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line No.	Monthly kWh Use	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed Unit Cost
				Amount	Percent	
1	100	\$25.29	\$26.94	\$1.65	6.54%	26.94¢
2	120	\$28.47	\$30.45	\$1.98	6.97%	25.38¢
3	160	\$34.83	\$37.48	\$2.65	7.60%	23.42¢
4	180	\$38.01	\$40.99	\$2.98	7.83%	22.77¢
5	200	\$41.20	\$44.50	\$3.31	8.03%	22.25¢
6	240	\$47.56	\$51.53	\$3.97	8.35%	21.47¢
7	280	\$53.92	\$58.55	\$4.63	8.59%	20.91¢
8	300	\$57.10	\$62.06	\$4.96	8.69%	20.69¢
9	350	\$65.06	\$70.85	\$5.79	8.90%	20.24¢
10	400	\$73.01	\$79.63	\$6.62	9.06%	19.91¢
11	450	\$80.96	\$88.41	\$7.44	9.19%	19.65¢
12	500	\$88.92	\$97.19	\$8.27	9.30%	19.44¢
13	550	\$97.05	\$106.48	\$9.43	9.72%	19.36¢
14	600	\$105.23	\$115.91	\$10.67	10.14%	19.32¢
15	650	\$113.42	\$125.33	\$11.92	10.51%	19.28¢
16	700	\$121.60	\$134.76	\$13.16	10.82%	19.25¢
17	750	\$129.78	\$144.18	\$14.40	11.10%	19.22¢
18	800	\$137.96	\$153.60	\$15.64	11.34%	19.20¢
19	850	\$146.14	\$163.03	\$16.89	11.56%	19.18¢
20	900	\$154.32	\$172.45	\$18.13	11.75%	19.16¢
21	950	\$162.50	\$181.88	\$19.37	11.92%	19.14¢
22	1,000	\$170.68	\$191.30	\$20.62	12.08%	19.13¢
23	1,100	\$187.05	\$210.15	\$23.10	12.35%	19.10¢
24	1,200	\$203.41	\$229.00	\$25.59	12.58%	19.08¢
25	1,300	\$219.77	\$247.85	\$28.07	12.77%	19.07¢
26	1,400	\$236.13	\$266.70	\$30.56	12.94%	19.05¢
27	1,500	\$252.50	\$285.54	\$33.05	13.09%	19.04¢
28	2,000	\$334.31	\$379.79	\$45.48	13.60%	18.99¢
29	3,000	\$497.93	\$568.27	\$70.34	14.13%	18.94¢
30	4,000	\$661.56	\$756.76	\$95.20	14.39%	18.92¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Residential Service Rate Space Heating - D2
November thru May

Case No.: U-21534
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Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge: \$0.06274

Capacity Charges:

First 20 KWH/Day \$0.00624

Second Block: \$0.00244

Power Supply Surcharges \$0.00000

REPS \$0.00

Service Charge \$8.50

Distribution Charge \$0.08137

Delivery Surcharges \$0.004375

LIEAF \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Non-Capacity Charge: \$0.05166

Capacity Charges:

First 20 KWH/Day \$0.01765

Excess \$0.00690

Power Supply Surcharges \$0.00000

REPS \$0.00

Service Charge \$8.50

Distribution Charge \$0.08962

Delivery Surcharges \$0.004375

LIEAF \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line No.	Monthly kWh Use	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed Unit Cost
				Amount	Percent	
1	100	\$24.85	\$25.71	\$0.86	3.45%	25.71¢
2	120	\$27.95	\$28.98	\$1.03	3.68%	24.15¢
3	160	\$34.14	\$35.51	\$1.37	4.02%	22.19¢
4	180	\$37.23	\$38.77	\$1.54	4.15%	21.54¢
5	200	\$40.33	\$42.04	\$1.72	4.26%	21.02¢
6	240	\$46.51	\$48.57	\$2.06	4.43%	20.24¢
7	280	\$52.70	\$55.11	\$2.40	4.56%	19.68¢
8	300	\$55.80	\$58.37	\$2.57	4.61%	19.46¢
9	350	\$63.53	\$66.54	\$3.00	4.73%	19.01¢
10	400	\$71.27	\$74.70	\$3.43	4.82%	18.68¢
11	450	\$79.01	\$82.87	\$3.86	4.89%	18.41¢
12	500	\$86.74	\$91.03	\$4.29	4.95%	18.21¢
13	550	\$94.48	\$99.20	\$4.72	4.99%	18.04¢
14	600	\$102.22	\$107.36	\$5.15	5.04%	17.89¢
15	650	\$109.76	\$114.99	\$5.23	4.76%	17.69¢
16	700	\$117.31	\$122.62	\$5.31	4.53%	17.52¢
17	750	\$124.85	\$130.25	\$5.39	4.32%	17.37¢
18	800	\$132.40	\$137.87	\$5.47	4.13%	17.23¢
19	850	\$139.95	\$145.50	\$5.56	3.97%	17.12¢
20	900	\$147.49	\$153.13	\$5.64	3.82%	17.01¢
21	950	\$155.04	\$160.76	\$5.72	3.69%	16.92¢
22	1,000	\$162.59	\$168.39	\$5.80	3.57%	16.84¢
23	1,100	\$177.68	\$183.64	\$5.96	3.36%	16.69¢
24	1,200	\$192.77	\$198.90	\$6.13	3.18%	16.57¢
25	1,300	\$207.86	\$214.15	\$6.29	3.03%	16.47¢
26	1,400	\$222.96	\$229.41	\$6.45	2.89%	16.39¢
27	1,500	\$238.05	\$244.66	\$6.62	2.78%	16.31¢
28	2,000	\$313.51	\$320.94	\$7.43	2.37%	16.05¢
29	3,000	\$464.44	\$473.50	\$9.06	1.95%	15.78¢
30	4,000	\$615.36	\$626.05	\$10.69	1.74%	15.65¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Water Heating Service Rate - D5 Residential

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Present Rates and Current Surcharges:

Power Supply Charges

Non-Capacity Charge **\$0.04132**

Capacity Charge **\$0.00698**

Power Supply Surcharges **\$0.00000**

Distribution Charges
Service Charge **\$1.95**

Distribution Energy \$0.08137

Delivery Surcharges \$0.004375

Proposed Rates and Current Surcharges:

Power Supply Charges

Non-Capacity Charge **\$0.02994**

Capacity Charge **\$0.01919**

Power Supply Surcharges **\$0.00000**

Distribution Charges
Service Charge **\$1.95**

Distribution Energy \$0.08962

Delivery Surcharges \$0.004375

Line No.	(a) Monthly kWh Use	(b) Present Net Monthly Bill	(c) Proposed Net Monthly Bill	Increase		(f) Proposed Unit Cost
				(d) Amount	(e) Percent	
1	100	\$15.35	\$16.26	\$0.91	5.91%	16.26¢
2	200	\$28.76	\$30.58	\$1.82	6.31%	15.29¢
3	300	\$42.16	\$44.89	\$2.72	6.46%	14.96¢
4	400	\$55.57	\$59.20	\$3.63	6.54%	14.80¢
5	500	\$68.97	\$73.51	\$4.54	6.58%	14.70¢
6	600	\$82.38	\$87.83	\$5.45	6.61%	14.64¢
7	700	\$95.78	\$102.14	\$6.36	6.64%	14.59¢
8	800	\$109.19	\$116.45	\$7.26	6.65%	14.56¢
9	900	\$122.59	\$130.76	\$8.17	6.67%	14.53¢
10	1,000	\$136.00	\$145.08	\$9.08	6.68%	14.51¢
10	1,100	\$149.40	\$159.39	\$9.99	6.69%	14.49¢
10	1,200	\$162.80	\$173.70	\$10.90	6.69%	14.48¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
General Service Rate - D3

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Present Rates and Current Surcharges:

Power Supply Charges:

Capacity Energy Charge **\$0.01010**
Non-capacity energy charge **\$0.07096**

Power Supply Surcharges: **\$0.000000**

Distribution Charges:

Service Charge **\$11.25**

Distribution Energy **\$0.05288**

Distribution Surcharges: **\$0.001477**

Energy Waste Reduction **\$5.50**

LIEAF Factor **\$0.88**

Proposed Rates and Current Surcharges:

Power Supply Charges:

Capacity Energy Charge **\$0.02770**
Non-capacity energy charge **\$0.05413**

Power Supply Surcharges: **\$0.000000**

Distribution Charges:

Service Charge **\$11.25**

Distribution Energy **\$0.05917**

Distribution Surcharges: **\$0.001477**

Energy Waste Reduction **\$5.50**

LIEAF Factor **\$0.88**

Line No.	(a) Monthly kWh Use	(b) Present Net Monthly Bill	(c) Proposed Net Monthly Bill	(d) Increase		(f) Proposed Unit Cost
				Amount	Percent	
1	400	\$71.80	\$74.62	\$2.82	3.93%	18.66¢
2	600	\$98.88	\$103.12	\$4.24	4.28%	17.19¢
3	800	\$125.96	\$131.61	\$5.65	4.48%	16.45¢
4	1,000	\$153.05	\$160.11	\$7.06	4.61%	16.01¢
5	1,200	\$180.13	\$188.60	\$8.47	4.70%	15.72¢
6	1,400	\$207.21	\$217.10	\$9.88	4.77%	15.51¢
7	1,600	\$234.30	\$245.59	\$11.30	4.82%	15.35¢
8	1,800	\$261.38	\$274.09	\$12.71	4.86%	15.23¢
9	2,000	\$288.46	\$302.58	\$14.12	4.89%	15.13¢
10	2,200	\$315.55	\$331.08	\$15.53	4.92%	15.05¢
11	2,400	\$342.63	\$359.57	\$16.94	4.95%	14.98¢
12	2,500	\$356.17	\$373.82	\$17.65	4.96%	14.95¢
13	3,000	\$423.88	\$445.06	\$21.18	5.00%	14.84¢
14	3,500	\$491.59	\$516.30	\$24.71	5.03%	14.75¢
15	4,000	\$559.30	\$587.54	\$28.24	5.05%	14.69¢
16	4,500	\$627.01	\$658.78	\$31.77	5.07%	14.64¢
17	5,000	\$694.72	\$730.02	\$35.30	5.08%	14.60¢
18	5,500	\$762.42	\$801.25	\$38.83	5.09%	14.57¢
19	6,000	\$830.13	\$872.49	\$42.36	5.10%	14.54¢
20	6,500	\$897.84	\$943.73	\$45.89	5.11%	14.52¢
21	7,000	\$965.55	\$1,014.97	\$49.42	5.12%	14.50¢
22	7,500	\$1,033.26	\$1,086.21	\$52.95	5.12%	14.48¢
23	8,000	\$1,100.97	\$1,157.45	\$56.48	5.13%	14.47¢
24	8,500	\$1,168.67	\$1,228.68	\$60.01	5.13%	14.46¢
25	9,000	\$1,236.38	\$1,299.92	\$63.54	5.14%	14.44¢
26	9,500	\$1,304.09	\$1,371.16	\$67.07	5.14%	14.43¢
27	10,000	\$1,371.80	\$1,442.40	\$70.60	5.15%	14.42¢
28	12,000	\$1,642.63	\$1,727.35	\$84.72	5.16%	14.39¢
29	15,000	\$2,048.89	\$2,154.79	\$105.90	5.17%	14.37¢
30	18,000	\$2,455.14	\$2,582.22	\$127.08	5.18%	14.35¢
31	21,000	\$2,861.39	\$3,009.65	\$148.26	5.18%	14.33¢
32	24,000	\$3,267.64	\$3,437.08	\$169.44	5.19%	14.32¢
33	27,000	\$3,673.89	\$3,864.51	\$190.62	5.19%	14.31¢
34	30,000	\$4,080.14	\$4,291.94	\$211.80	5.19%	14.31¢
35	35,000	\$4,757.23	\$5,004.33	\$247.10	5.19%	14.30¢
36	40,000	\$5,434.31	\$5,716.71	\$282.40	5.20%	14.29¢
37	45,000	\$6,111.40	\$6,429.10	\$317.70	5.20%	14.29¢
38	50,000	\$6,788.48	\$7,141.48	\$353.00	5.20%	14.28¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Secondary Educational Institute Rate - D3.2

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Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Capacity Energy Charge \$0.00939
Non-capacity energy \$0.06937

Power Supply Surcharges: \$0.000000

Distribution Charges:

Service Charge \$11.25

Distribution Energy \$0.05288

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Capacity Energy Charge \$0.02580
Non-capacity energy \$0.05335

Power Supply Surcharges: \$0.000000

Distribution Charges:

Service Charge \$11.25

Distribution Energy \$0.05917

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line	Monthly	Present Net	Proposed Net	Increase		Proposed
No.	kWh Use	Monthly Bill	Monthly Bill	Amount	Percent	Unit Cost
1	400	\$70.88	\$73.55	\$2.67	3.77%	18.39¢
2	600	\$97.50	\$101.51	\$4.01	4.11%	16.92¢
3	800	\$124.12	\$129.47	\$5.34	4.31%	16.18¢
4	1,000	\$150.75	\$157.43	\$6.68	4.43%	15.74¢
5	1,200	\$177.37	\$185.39	\$8.02	4.52%	15.45¢
6	1,400	\$203.99	\$213.35	\$9.35	4.58%	15.24¢
7	1,600	\$230.62	\$241.31	\$10.69	4.63%	15.08¢
8	1,800	\$257.24	\$269.26	\$12.02	4.67%	14.96¢
9	2,000	\$283.86	\$297.22	\$13.36	4.71%	14.86¢
10	2,200	\$310.49	\$325.18	\$14.70	4.73%	14.78¢
11	2,400	\$337.11	\$353.14	\$16.03	4.76%	14.71¢
12	2,500	\$350.42	\$367.12	\$16.70	4.77%	14.68¢
13	3,000	\$416.98	\$437.02	\$20.04	4.81%	14.57¢
14	3,500	\$483.54	\$506.92	\$23.38	4.84%	14.48¢
15	4,000	\$550.10	\$576.82	\$26.72	4.86%	14.42¢
16	4,500	\$616.66	\$646.72	\$30.06	4.87%	14.37¢
17	5,000	\$683.22	\$716.62	\$33.40	4.89%	14.33¢
18	5,500	\$749.77	\$786.51	\$36.74	4.90%	14.30¢
19	6,000	\$816.33	\$856.41	\$40.08	4.91%	14.27¢
20	6,500	\$882.89	\$926.31	\$43.42	4.92%	14.25¢
21	7,000	\$949.45	\$996.21	\$46.76	4.92%	14.23¢
22	7,500	\$1,016.01	\$1,066.11	\$50.10	4.93%	14.21¢
23	8,000	\$1,082.57	\$1,136.01	\$53.44	4.94%	14.20¢
24	8,500	\$1,149.12	\$1,205.90	\$56.78	4.94%	14.19¢
25	9,000	\$1,215.68	\$1,275.80	\$60.12	4.95%	14.18¢
26	9,500	\$1,282.24	\$1,345.70	\$63.46	4.95%	14.17¢
27	10,000	\$1,348.80	\$1,415.60	\$66.80	4.95%	14.16¢
28	12,000	\$1,615.03	\$1,695.19	\$80.16	4.96%	14.13¢
29	15,000	\$2,014.39	\$2,114.59	\$100.20	4.97%	14.10¢
30	18,000	\$2,413.74	\$2,533.98	\$120.24	4.98%	14.08¢
31	21,000	\$2,813.09	\$2,953.37	\$140.28	4.99%	14.06¢
32	24,000	\$3,212.44	\$3,372.76	\$160.32	4.99%	14.05¢
33	27,000	\$3,611.79	\$3,792.15	\$180.36	4.99%	14.04¢
34	30,000	\$4,011.14	\$4,211.54	\$200.40	5.00%	14.04¢
35	35,000	\$4,676.73	\$4,910.53	\$233.80	5.00%	14.03¢
36	40,000	\$5,342.31	\$5,609.51	\$267.20	5.00%	14.02¢
37	45,000	\$6,007.90	\$6,308.50	\$300.60	5.00%	14.02¢
38	50,000	\$6,673.48	\$7,007.48	\$334.00	5.00%	14.01¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Interruptible General Service Rate - D3.3

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Present Rates and Current Surcharges:

Power Supply Charges:

Capacity Energy Charge \$0.00844
Non-capacity energy \$0.05929

Power Supply Surcharges: \$0.000000

Distribution Charges:

Service Charge \$11.25

Distribution Energy \$0.05288

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Capacity Energy Charge \$0.02315
Non-capacity energy \$0.05423

Power Supply Surcharges: \$0.000000

Distribution Charges:

Service Charge \$11.25

Distribution Energy \$0.05917

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

Line No.	(a) Monthly kWh Use	(b) Present Net Monthly Bill	(c) Proposed Net Monthly Bill	(d) Increase		(e)	(f) Proposed Unit Cost
				Amount	Percent		
1	400	\$66.46	\$72.84	\$6.38	9.59%		18.21¢
2	600	\$90.88	\$100.45	\$9.56	10.52%		16.74¢
3	800	\$115.30	\$128.05	\$12.75	11.06%		16.01¢
4	1,000	\$139.72	\$155.66	\$15.94	11.41%		15.57¢
5	1,200	\$164.13	\$183.26	\$19.13	11.65%		15.27¢
6	1,400	\$188.55	\$210.87	\$22.32	11.84%		15.06¢
7	1,600	\$212.97	\$238.47	\$25.50	11.98%		14.90¢
8	1,800	\$237.39	\$266.08	\$28.69	12.09%		14.78¢
9	2,000	\$261.80	\$293.68	\$31.88	12.18%		14.68¢
10	2,200	\$286.22	\$321.29	\$35.07	12.25%		14.60¢
11	2,400	\$310.64	\$348.89	\$38.26	12.32%		14.54¢
12	2,500	\$322.85	\$362.70	\$39.85	12.34%		14.51¢
13	3,000	\$383.89	\$431.71	\$47.82	12.46%		14.39¢
14	3,500	\$444.93	\$500.72	\$55.79	12.54%		14.31¢
15	4,000	\$505.98	\$569.74	\$63.76	12.60%		14.24¢
16	4,500	\$567.02	\$638.75	\$71.73	12.65%		14.19¢
17	5,000	\$628.07	\$707.77	\$79.70	12.69%		14.16¢
18	5,500	\$689.11	\$776.78	\$87.67	12.72%		14.12¢
19	6,000	\$750.15	\$845.79	\$95.64	12.75%		14.10¢
20	6,500	\$811.20	\$914.81	\$103.61	12.77%		14.07¢
21	7,000	\$872.24	\$983.82	\$111.58	12.79%		14.05¢
22	7,500	\$933.28	\$1,052.83	\$119.55	12.81%		14.04¢
23	8,000	\$994.33	\$1,121.85	\$127.52	12.82%		14.02¢
24	8,500	\$1,055.37	\$1,190.86	\$135.49	12.84%		14.01¢
25	9,000	\$1,116.41	\$1,259.87	\$143.46	12.85%		14.00¢
26	9,500	\$1,177.46	\$1,328.89	\$151.43	12.86%		13.99¢
27	10,000	\$1,238.50	\$1,397.90	\$159.40	12.87%		13.98¢
28	12,000	\$1,482.67	\$1,673.95	\$191.28	12.90%		13.95¢
29	15,000	\$1,848.94	\$2,088.04	\$239.10	12.93%		13.92¢
30	18,000	\$2,215.20	\$2,502.12	\$286.92	12.95%		13.90¢
31	21,000	\$2,581.46	\$2,916.20	\$334.74	12.97%		13.89¢
32	24,000	\$2,947.72	\$3,330.28	\$382.56	12.98%		13.88¢
33	27,000	\$3,313.98	\$3,744.36	\$430.38	12.99%		13.87¢
34	30,000	\$3,680.24	\$4,158.44	\$478.20	12.99%		13.86¢
35	33,000	\$4,046.50	\$4,572.52	\$526.02	13.00%		13.86¢
36	36,000	\$4,412.76	\$4,986.60	\$573.84	13.00%		13.85¢
37	39,000	\$4,779.02	\$5,400.68	\$621.66	13.01%		13.85¢
38	42,000	\$5,145.28	\$5,814.76	\$669.48	13.01%		13.84¢
39	45,000	\$5,511.55	\$6,228.85	\$717.30	13.01%		13.84¢
40	50,000	\$6,121.98	\$6,918.98	\$797.00	13.02%		13.84¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Large General Service Rate - D4

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Capacity Charge:

Demand Charge **\$3.57**

Non-capacity Charges:

Demand Charge **\$13.02**
Energy Charges:
First 200kWh/kW **\$0.04012**
Over 200kWh/kW **\$0.03097**

Power Supply Surcharges: **\$0.000000**

Distribution Charges:

Service Charge: **\$13.67**
Demand Charge: **\$21.80**
Distribution Energy: **\$0.00000**

Distribution Surcharges: **\$0.000882**
Energy Waste Reduction **\$140.21**
LIEAF Factor **\$0.88**
IRM **\$0.2454**

Proposed Rates and Current Surcharges:

Power Supply Charges:

Capacity Charges:

Demand Charge **\$9.76**

Non-capacity Charges:

Demand Charge **\$6.92**
Energy Charges:
First 200kWh/kW **\$0.04033**
Over 200kWh/kW **\$0.03113**

Power Supply Surcharges: **\$0.000000**

Distribution Charges:

Service Charge: **\$13.67**
Demand Charge: **\$24.23**
Distribution Energy: **\$0.00000**

Distribution Surcharges: **\$0.000882**
Energy Waste Reduction **\$140.21**
LIEAF Factor **\$0.88**
IRM **\$0.2454**

Line No.	(a) Monthly kWh Use	(b) On-Peak Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Amount	(f) Increase Percent	(g) Proposed Unit Cost
1	5	300	\$404.87	\$417.76	\$12.89	3.18%	27.85¢
2	5	400	\$420.79	\$433.76	\$12.97	3.08%	21.69¢
3	5	500	\$436.72	\$449.77	\$13.05	2.99%	17.99¢
4							
5	10	300	\$654.97	\$680.75	\$25.78	3.94%	22.69¢
6	10	400	\$686.82	\$712.76	\$25.94	3.78%	17.82¢
7	10	500	\$718.67	\$744.77	\$26.10	3.63%	14.90¢
8							
9	25	300	\$1,405.29	\$1,469.74	\$64.45	4.59%	19.60¢
10	25	400	\$1,484.92	\$1,549.77	\$64.85	4.37%	15.50¢
11	25	500	\$1,564.55	\$1,629.80	\$65.25	4.17%	13.04¢
12							
13	50	300	\$2,655.81	\$2,784.71	\$128.90	4.85%	18.56¢
14	50	400	\$2,815.07	\$2,944.77	\$129.70	4.61%	14.72¢
15	50	500	\$2,974.33	\$3,104.83	\$130.50	4.39%	12.42¢
16							
17	75	300	\$3,906.34	\$4,099.69	\$193.35	4.95%	18.22¢
18	75	400	\$4,145.23	\$4,339.78	\$194.55	4.69%	14.47¢
19	75	500	\$4,384.12	\$4,579.87	\$195.75	4.46%	12.21¢
20							
21	100	300	\$5,156.86	\$5,414.66	\$257.80	5.00%	18.05¢
22	100	400	\$5,475.38	\$5,734.78	\$259.40	4.74%	14.34¢
23	100	500	\$5,793.90	\$6,054.90	\$261.00	4.50%	12.11¢
24							
25	200	300	\$10,158.96	\$10,674.56	\$515.60	5.08%	17.79¢
26	200	400	\$10,796.00	\$11,314.80	\$518.80	4.81%	14.14¢
27	200	500	\$11,433.04	\$11,955.04	\$522.00	4.57%	11.96¢
28							
29	300	300	\$15,161.06	\$15,934.46	\$773.40	5.10%	17.70¢
30	300	400	\$16,116.62	\$16,894.82	\$778.20	4.83%	14.08¢
31	300	500	\$17,072.18	\$17,855.18	\$783.00	4.59%	11.90¢
32							
33	400	300	\$20,163.16	\$21,194.36	\$1,031.20	5.11%	17.66¢
34	400	400	\$21,437.24	\$22,474.84	\$1,037.60	4.84%	14.05¢
35	400	500	\$22,711.32	\$23,755.32	\$1,044.00	4.60%	11.88¢
36							
37	500	300	\$25,165.26	\$26,454.26	\$1,289.00	5.12%	17.64¢
38	500	400	\$26,757.86	\$28,054.86	\$1,297.00	4.85%	14.03¢
39	500	500	\$28,350.46	\$29,655.46	\$1,305.00	4.60%	11.86¢
40							
41	750	300	\$37,670.51	\$39,604.01	\$1,933.50	5.13%	17.60¢
42	750	400	\$40,059.41	\$42,004.91	\$1,945.50	4.86%	14.00¢
43	750	500	\$42,448.31	\$44,405.81	\$1,957.50	4.61%	11.84¢
44							
45	1000	300	\$50,175.76	\$52,753.76	\$2,578.00	5.14%	17.58¢
46	1000	400	\$53,360.96	\$55,954.96	\$2,594.00	4.86%	13.99¢
47	1000	500	\$56,546.16	\$59,156.16	\$2,610.00	4.62%	11.83¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Water Heating Service Rate - D5 Commercial

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Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Capacity Energy \$0.00595
Non-capacity Energy \$0.04178

Power Supply Surcharges: \$0.000000

Distribution Charges:

Service Charge \$1.95

Distribution Energy \$0.05288

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Capacity Energy \$0.01631
Non-capacity Energy \$0.03187

Power Supply Surcharges: \$0.000000

Distribution Charges:

Service Charge \$1.95

Distribution Energy \$0.05917

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line	Monthly	Present Net	Proposed Net	Increase		Proposed
No.	kWh Use	Monthly Bill	Monthly Bill	Amount	Percent	Unit Cost
1	100	\$18.54	\$19.21	\$0.67	3.64%	19.21¢
2	200	\$28.75	\$30.10	\$1.35	4.69%	15.05¢
3	300	\$38.96	\$40.98	\$2.02	5.19%	13.66¢
4	400	\$49.16	\$51.86	\$2.70	5.48%	12.97¢
5	500	\$59.37	\$62.74	\$3.37	5.68%	12.55¢
6	600	\$69.58	\$73.63	\$4.04	5.81%	12.27¢
7	700	\$79.79	\$84.51	\$4.72	5.91%	12.07¢
8	800	\$90.00	\$95.39	\$5.39	5.99%	11.92¢
9	900	\$100.21	\$106.27	\$6.07	6.05%	11.81¢
10	1,000	\$110.42	\$117.16	\$6.74	6.10%	11.72¢
11	1,100	\$120.63	\$128.04	\$7.41	6.15%	11.64¢
12	1,200	\$130.83	\$138.92	\$8.09	6.18%	11.58¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Greenhouse Lighting Service Rate - Standard Contract Rider No. R7

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:
Power Supply Charges:

Capacity energy \$0.00577
Non-capacity energy \$0.04054

Power Supply Surcharges: \$0.000000

Distribution Charges:
Service Charge: \$1.95

Distribution Energy \$0.05288

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

Proposed Rates and Current Surcharges:
Power Supply Charges:

Capacity energy \$0.01583
Non-capacity energy \$0.03092

Power Supply Surcharges: \$0.000000

Distribution Charges:
Service Charge: \$1.95

Distribution Energy \$0.05917

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line	Monthly	Present Net	Proposed Net	Increase		Proposed
No.	kWh Use	Monthly Bill	Monthly Bill	Amount	Percent	Unit Cost
1	400	\$48.60	\$51.29	\$2.69	5.54%	12.82¢
2	600	\$68.73	\$72.77	\$4.04	5.88%	12.13¢
3	800	\$88.86	\$94.25	\$5.38	6.06%	11.78¢
4	1,000	\$109.00	\$115.73	\$6.73	6.17%	11.57¢
5	1,200	\$129.13	\$137.21	\$8.08	6.25%	11.43¢
6	1,400	\$149.26	\$158.69	\$9.42	6.31%	11.33¢
7	1,600	\$169.40	\$180.17	\$10.77	6.36%	11.26¢
8	1,800	\$189.53	\$201.64	\$12.11	6.39%	11.20¢
9	2,000	\$209.66	\$223.12	\$13.46	6.42%	11.16¢
10	2,500	\$260.00	\$276.82	\$16.83	6.47%	11.07¢
11	3,000	\$310.33	\$330.52	\$20.19	6.51%	11.02¢
12	4,000	\$411.00	\$437.92	\$26.92	6.55%	10.95¢
13	5,000	\$511.67	\$545.32	\$33.65	6.58%	10.91¢
14	6,000	\$612.33	\$652.71	\$40.38	6.59%	10.88¢
15	7,000	\$713.00	\$760.11	\$47.11	6.61%	10.86¢
16	8,000	\$813.67	\$867.51	\$53.84	6.62%	10.84¢
17	9,000	\$914.33	\$974.90	\$60.57	6.62%	10.83¢
18	10,000	\$1,015.00	\$1,082.30	\$67.30	6.63%	10.82¢
19	12,000	\$1,216.33	\$1,297.09	\$80.76	6.64%	10.81¢
20	15,000	\$1,518.34	\$1,619.29	\$100.95	6.65%	10.80¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Commercial Space Conditioning Rate - Standard Contract Rider No. R8
June Thru October

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Capacity energy **\$0.01539**
Non-capacity energy **\$0.06173**

Power Supply Surcharges: **\$0.000000**

Distribution Charges:

Service Charge: **\$11.25**

Distribution Energy \$0.05288

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Capacity energy **\$0.04268**
Non-capacity energy **\$0.04702**

Power Supply Surcharges: **\$0.000000**

Distribution Charges:

Service Charge: **\$11.25**

Distribution Energy \$0.05917

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line No.	Monthly kWh Use	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed Unit Cost
				Amount	Percent	
1	1,000	\$149.11	\$167.98	\$18.87	12.66%	16.80¢
2	3,000	\$412.06	\$468.67	\$56.61	13.74%	15.62¢
3	5,000	\$675.02	\$769.37	\$94.35	13.98%	15.39¢
4	7,000	\$937.97	\$1,070.06	\$132.09	14.08%	15.29¢
5	8,000	\$1,069.45	\$1,220.41	\$150.96	14.12%	15.26¢
6	9,000	\$1,200.92	\$1,370.75	\$169.83	14.14%	15.23¢
7	10,000	\$1,332.40	\$1,521.10	\$188.70	14.16%	15.21¢
8	12,000	\$1,595.35	\$1,821.79	\$226.44	14.19%	15.18¢
9	13,000	\$1,726.83	\$1,972.14	\$245.31	14.21%	15.17¢
10	15,000	\$1,989.79	\$2,272.84	\$283.05	14.23%	15.15¢
11	17,000	\$2,252.74	\$2,573.53	\$320.79	14.24%	15.14¢
12	20,000	\$2,647.17	\$3,024.57	\$377.40	14.26%	15.12¢
13	28,000	\$3,698.99	\$4,227.35	\$528.36	14.28%	15.10¢
14	30,000	\$3,961.94	\$4,528.04	\$566.10	14.29%	15.09¢
15	35,000	\$4,619.33	\$5,279.78	\$660.45	14.30%	15.09¢
16	40,000	\$5,276.71	\$6,031.51	\$754.80	14.30%	15.08¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Commercial Space Heating - Standard Contract Rider No. R8
November Thru May

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply Charges:

Capacity energy
1st 1,000 kWh \$0.01539
Excess \$0.00510
Non-capacity energy \$0.06173

Power Supply Surcharges: \$0.000000

Distribution Charges:

Service Charge: \$11.25

Distribution Energy \$0.05288

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

Proposed Rates and Current Surcharges:

Power Supply Charges:

Capacity energy
1st 1,000 kWh \$0.04268
Excess \$0.01414
Non-capacity energy \$0.04702

Power Supply Surcharges: \$0.000000

Distribution Charges:

Service Charge: \$11.25

Distribution Energy \$0.05917

Distribution Surcharges: \$0.001477
Energy Waste Reduction \$5.50
LIEAF Factor \$0.88

	(a)	(b)	(c)	(d)	(e)	(f)
Line No.	Monthly kWh Use	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed Unit Cost
				Amount	Percent	
1	1,000	149.107	\$167.98	\$18.87	12.66%	16.80¢
2	3,000	\$391.48	\$411.59	\$20.11	5.14%	13.72¢
3	5,000	\$633.86	\$655.21	\$21.35	3.37%	13.10¢
4	7,000	\$876.23	\$898.82	\$22.59	2.58%	12.84¢
5	8,000	\$997.42	\$1,020.63	\$23.21	2.33%	12.76¢
6	9,000	\$1,118.60	\$1,142.43	\$23.83	2.13%	12.69¢
7	10,000	\$1,239.79	\$1,264.24	\$24.45	1.97%	12.64¢
8	12,000	\$1,482.16	\$1,507.85	\$25.69	1.73%	12.57¢
9	13,000	\$1,603.35	\$1,629.66	\$26.31	1.64%	12.54¢
10	15,000	\$1,845.73	\$1,873.28	\$27.55	1.49%	12.49¢
11	17,000	\$2,088.10	\$2,116.89	\$28.79	1.38%	12.45¢
12	20,000	\$2,451.66	\$2,482.31	\$30.65	1.25%	12.41¢
13	28,000	\$3,421.16	\$3,456.77	\$35.61	1.04%	12.35¢
14	30,000	\$3,663.53	\$3,700.38	\$36.85	1.01%	12.33¢
15	35,000	\$4,269.47	\$4,309.42	\$39.95	0.94%	12.31¢
16	40,000	\$4,875.40	\$4,918.45	\$43.05	0.88%	12.30¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Primary Supply Rate - D11
Primary Less Than 24kV

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$3.56
Voltage Level Discount \$0.00

Non-Capacity:

Power Supply Demand \$13.33
Voltage Level Discount \$0.00

Energy

On-Peak Rate \$0.04257
Off-Peak Rate \$0.03257
Voltage Discount

Surcharges:

PSCR \$0.00000
REPS >41,500kWh, \$0.00
11,501-41,50 \$0.00

Distribution

Service Charge: \$70
Distribution Charges:
Demand \$6.15
Energy
Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.0727

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$9.77
Voltage Level Adjustment \$0.00

Non-Capacity:

Power Supply Demand \$7.24
Voltage Level Discount \$0.00

Energy

On-Peak Rate \$0.04278
Off-Peak Rate \$0.03278
Voltage Discount

Surcharges:

PSCR \$0.00000
REPS \$0.00
\$0.00

Distribution

Service Charge: \$70
Distribution Charges:
Demand \$6.36
Energy
Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.0727

	(a)	(b)		(c)	(d)	(e)	(f)	(g)	(h)
Line	Monthly	Hours			Present Net	Proposed Net	Increase		Proposed
No.	kW Demand	Use		Percent	Monthly Bill	Monthly Bill	Amount	Percent	Unit Cost
1	50	300	@	30%	\$3,010	\$3,030	\$20	0.65%	20.20¢
2	50	400	@	30%	\$3,193	\$3,213	\$21	0.65%	16.07¢
3	50	500	@	25%	\$3,362	\$3,384	\$22	0.65%	13.54¢
4	50	600	@	25%	\$3,542	\$3,565	\$23	0.64%	11.88¢
5	50	650	@	25%	\$3,632	\$3,655	\$23	0.64%	11.25¢
6									
7	100	300	@	30%	\$4,713	\$4,752	\$39	0.83%	15.84¢
8	100	400	@	30%	\$5,077	\$5,119	\$41	0.82%	12.80¢
9	100	500	@	25%	\$5,417	\$5,460	\$43	0.80%	10.92¢
10	100	600	@	25%	\$5,776	\$5,822	\$46	0.79%	9.70¢
11	100	650	@	25%	\$5,956	\$6,003	\$47	0.78%	9.24¢
12									
13	500	300	@	30%	\$18,332	\$18,529	\$197	1.07%	12.35¢
14	500	400	@	30%	\$20,155	\$20,362	\$207	1.03%	10.18¢
15	500	500	@	25%	\$21,852	\$22,070	\$218	1.00%	8.83¢
16	500	600	@	25%	\$23,650	\$23,878	\$228	0.96%	7.96¢
17	500	650	@	25%	\$24,549	\$24,782	\$233	0.95%	7.63¢
18									
19	1,000	300	@	30%	\$35,356	\$35,749	\$393	1.11%	11.92¢
20	1,000	400	@	30%	\$39,001	\$39,415	\$414	1.06%	9.85¢
21	1,000	500	@	25%	\$42,397	\$42,832	\$435	1.03%	8.57¢
22	1,000	600	@	25%	\$45,992	\$46,448	\$456	0.99%	7.74¢
23	1,000	650	@	25%	\$47,789	\$48,256	\$467	0.98%	7.42¢
24									
25	5,000	300	@	30%	\$171,549	\$173,514	\$1,965	1.15%	11.57¢
26	5,000	400	@	30%	\$189,775	\$191,845	\$2,070	1.09%	9.59¢
27	5,000	500	@	25%	\$206,751	\$208,926	\$2,175	1.05%	8.36¢
28	5,000	600	@	25%	\$224,727	\$227,007	\$2,280	1.01%	7.57¢
29	5,000	650	@	25%	\$233,715	\$236,048	\$2,333	1.00%	7.26¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Primary Supply Rate - D11
Subtransmission 24 to 41.6kV

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$3.56
Voltage Level Discount (\$0.07)

Non-Capacity:

Power Supply Demand \$13.33
Voltage Level Discount (\$0.24)

Energy

On-Peak Rate \$0.04257
Off-Peak Rate \$0.03257
Voltage Discount (\$0.00062)

Surcharges:

PSCR \$0.00000
REPS >41,500kWh/month \$0.00
11,501-41,500 kWh/month \$0.00

Distribution

Service Charge: \$375

Distribution Charges:

Demand \$1.96
Energy

Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.0312

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$9.77
Voltage Level Adjustment (\$0.20)

Non-Capacity:

Power Supply Demand \$7.24
Voltage Level Discount (\$0.15)

Energy

On-Peak Rate \$0.04278
Off-Peak Rate \$0.03278
Voltage Discount (\$0.00062)

Surcharges:

PSCR \$0.00000
REPS \$0.00
\$0.00

Distribution

Service Charge: \$375

Distribution Charges:

Demand \$1.74
Energy

Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.0312

	(a)	(b)		(c)	(d)	(e)	(f)	(g)	(h)
Line No.	Monthly kW Demand	Hours Use		Percent	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase Amount	Percent	Proposed Unit Cost
1	1,000	300	@	30%	\$30,934	\$30,857	-\$77	-0.25%	10.29¢
2	1,000	400	@	30%	\$34,517	\$34,461	-\$56	-0.16%	8.62¢
3	1,000	500	@	25%	\$37,850	\$37,815	-\$35	-0.09%	7.56¢
4	1,000	600	@	25%	\$41,383	\$41,369	-\$14	-0.03%	6.89¢
5	1,000	650	@	25%	\$43,150	\$43,146	-\$4	-0.01%	6.64¢
6									
7	5,000	300	@	30%	\$148,217	\$147,832	-\$385	-0.26%	9.86¢
8	5,000	400	@	30%	\$166,133	\$165,853	-\$280	-0.17%	8.29¢
9	5,000	500	@	25%	\$182,799	\$182,624	-\$175	-0.10%	7.30¢
10	5,000	600	@	25%	\$200,465	\$200,395	-\$70	-0.03%	6.68¢
11	5,000	650	@	25%	\$209,298	\$209,280	-\$18	-0.01%	6.44¢
12									
13	10,000	300	@	30%	\$294,821	\$294,051	-\$770	-0.26%	9.80¢
14	10,000	400	@	30%	\$330,653	\$330,093	-\$560	-0.17%	8.25¢
15	10,000	500	@	25%	\$363,985	\$363,635	-\$350	-0.10%	7.27¢
16	10,000	600	@	25%	\$399,317	\$399,177	-\$140	-0.04%	6.65¢
17	10,000	650	@	25%	\$416,983	\$416,948	-\$35	-0.01%	6.41¢
18									
19	50,000	300	@	30%	\$1,467,653	\$1,463,803	-\$3,850	-0.26%	9.76¢
20	50,000	400	@	30%	\$1,646,813	\$1,644,013	-\$2,800	-0.17%	8.22¢
21	50,000	500	@	25%	\$1,813,473	\$1,811,723	-\$1,750	-0.10%	7.25¢
22	50,000	600	@	25%	\$1,990,133	\$1,989,433	-\$700	-0.04%	6.63¢
23	50,000	650	@	25%	\$2,078,463	\$2,078,288	-\$175	-0.01%	6.39¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Primary Supply Rate - D11
Transmission 120kV and above

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 33 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$3.56
Voltage Level Discount (\$0.15)

Non-Capacity:

Power Supply Demand \$13.33
Voltage Level Discount (\$0.53)

Energy

On-Peak Rate \$0.04257
Off-Peak Rate \$0.03257
Voltage Discount (\$0.00138)

Surcharges:

PSCR \$0.00000
REPS >41,500kWh/month \$0.00
11,501-41,500 kWh/month \$0.00

Distribution

Service Charge: \$375

Distribution Charges:

Demand \$0.86
Energy

Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.0000

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$9.77
Voltage Level Adjustment (\$0.41)

Non-Capacity:

Power Supply Demand \$7.24
Voltage Level Discount (\$0.31)

Energy

On-Peak Rate \$0.04278
Off-Peak Rate \$0.03278
Voltage Level Adjustment (\$0.00139)

Surcharges:

PSCR \$0.00000
REPS \$0.00
\$0.00

Distribution

Service Charge: \$375

Distribution Charges:

Demand \$0.94
Energy

Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.0000

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Percent	(d) Present Net Monthly Bill	(e) Proposed Net Monthly Bill	(f) Increase Amount	(g) Percent	(h) Proposed Unit Cost
1	1,000	300	@ 30%	\$29,205	\$29,425	\$220	0.75%	9.81¢
2	1,000	400	@ 30%	\$32,712	\$32,952	\$240	0.73%	8.24¢
3	1,000	500	@ 25%	\$35,969	\$36,229	\$260	0.72%	7.25¢
4	1,000	600	@ 25%	\$39,426	\$39,706	\$280	0.71%	6.62¢
5	1,000	650	@ 25%	\$41,155	\$41,445	\$290	0.70%	6.38¢
6								
7	5,000	300	@ 30%	\$139,571	\$140,671	\$1,100	0.79%	9.38¢
8	5,000	400	@ 30%	\$157,107	\$158,307	\$1,200	0.76%	7.92¢
9	5,000	500	@ 25%	\$173,393	\$174,693	\$1,300	0.75%	6.99¢
10	5,000	600	@ 25%	\$190,679	\$192,079	\$1,400	0.73%	6.40¢
11	5,000	650	@ 25%	\$199,322	\$200,772	\$1,450	0.73%	6.18¢
12								
13	10,000	300	@ 30%	\$277,529	\$279,729	\$2,200	0.79%	9.32¢
14	10,000	400	@ 30%	\$312,601	\$315,001	\$2,400	0.77%	7.88¢
15	10,000	500	@ 25%	\$345,173	\$347,773	\$2,600	0.75%	6.96¢
16	10,000	600	@ 25%	\$379,745	\$382,545	\$2,800	0.74%	6.38¢
17	10,000	650	@ 25%	\$397,031	\$399,931	\$2,900	0.73%	6.15¢
18								
19	50,000	300	@ 30%	\$1,381,193	\$1,392,193	\$11,000	0.80%	9.28¢
20	50,000	400	@ 30%	\$1,556,553	\$1,568,553	\$12,000	0.77%	7.84¢
21	50,000	500	@ 25%	\$1,719,413	\$1,732,413	\$13,000	0.76%	6.93¢
22	50,000	600	@ 25%	\$1,892,273	\$1,906,273	\$14,000	0.74%	6.35¢
23	50,000	650	@ 25%	\$1,978,703	\$1,993,203	\$14,500	0.73%	6.13¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Primary Educational Institution Rate - D6.2
Primary Less Than 24kV

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 34 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$3.58
Voltage Level Adjustment

Non-Capacity:

Power Supply Demand \$10.04
Voltage Level Discount

Energy

On-Peak Rate \$0.04322
Off-Peak Rate \$0.04022
Voltage Discount \$0.00000

Surcharges:

PSCR \$0.00000
REPS >41,500kWh/month \$0.00
11,501-41,500 kWh/month \$0.00

Distribution

Service Charge: \$70

Distribution Charges:

Demand \$6.15
Energy

Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.0727

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$11.47
Voltage Level Adjustment

Non-Capacity:

Power Supply Demand \$3.33
Voltage Level Discount

Energy

On-Peak Rate \$0.04673
Off-Peak Rate \$0.04373
Voltage Discount \$0.00000

Surcharges:

PSCR \$0.00000
REPS \$0.00
\$0.00

Distribution

Service Charge: \$70

Distribution Charges:

Demand \$6.36
Energy

Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
\$0.0727

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Percent	(d) Present Net Monthly Bill	(e) Proposed Net Monthly Bill	(f) Increase Amount	(g) Percent	(h) Proposed Unit Cost
1	50	300	@ 30%	\$2,930	\$3,052	\$122	4.17%	20.35¢
2	50	400	@ 30%	\$3,140	\$3,280	\$140	4.45%	16.40¢
3	50	500	@ 25%	\$3,346	\$3,504	\$157	4.70%	14.01¢
4	50	600	@ 25%	\$3,556	\$3,730	\$175	4.92%	12.43¢
5	50	650	@ 25%	\$3,660	\$3,844	\$184	5.02%	11.83¢
6								
7	100	300	@ 30%	\$4,552	\$4,797	\$244	5.37%	15.99¢
8	100	400	@ 30%	\$4,972	\$5,252	\$279	5.62%	13.13¢
9	100	500	@ 25%	\$5,385	\$5,699	\$315	5.84%	11.40¢
10	100	600	@ 25%	\$5,803	\$6,153	\$350	6.02%	10.25¢
11	100	650	@ 25%	\$6,013	\$6,380	\$367	6.11%	9.82¢
12								
13	500	300	@ 30%	\$17,530	\$18,751	\$1,222	6.97%	12.50¢
14	500	400	@ 30%	\$19,630	\$21,027	\$1,397	7.12%	10.51¢
15	500	500	@ 25%	\$21,692	\$23,265	\$1,573	7.25%	9.31¢
16	500	600	@ 25%	\$23,785	\$25,533	\$1,748	7.35%	8.51¢
17	500	650	@ 25%	\$24,831	\$26,667	\$1,836	7.39%	8.21¢
18								
19	1,000	300	@ 30%	\$33,751	\$36,194	\$2,443	7.24%	12.06¢
20	1,000	400	@ 30%	\$37,951	\$40,745	\$2,794	7.36%	10.19¢
21	1,000	500	@ 25%	\$42,077	\$45,222	\$3,145	7.47%	9.04¢
22	1,000	600	@ 25%	\$46,262	\$49,758	\$3,496	7.56%	8.29¢
23	1,000	650	@ 25%	\$48,354	\$52,026	\$3,672	7.59%	8.00¢
24								
25	5,000	300	@ 30%	\$163,524	\$175,739	\$12,215	7.47%	11.72¢
26	5,000	400	@ 30%	\$184,525	\$198,495	\$13,970	7.57%	9.92¢
27	5,000	500	@ 25%	\$205,151	\$220,876	\$15,725	7.67%	8.84¢
28	5,000	600	@ 25%	\$226,077	\$243,557	\$17,480	7.73%	8.12¢
29	5,000	650	@ 25%	\$236,540	\$254,898	\$18,358	7.76%	7.84¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Primary Educational Institution Rate - D6.2
Subtransmission 24 to 41.6kV

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 35 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$3.58
Voltage Level Discount (\$0.07)

Non-Capacity:

Power Supply Demand \$10.04
Voltage Level Discount (\$0.18)

Energy

On-Peak Rate \$0.04322
Off-Peak Rate \$0.04022
Voltage Discount (\$0.00073)

Surcharges:

PSCR \$0.00000
REPS >41,500kWh/month \$0.00
11,501-41,500 kWh/month \$0.00

Distribution

Service Charge: \$375

Distribution Charges:

Demand \$1.96
Energy

Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.0312

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$11.47
Voltage Level Adjustment (\$0.23)

Non-Capacity:

Power Supply Demand \$3.33
Voltage Level Discount (\$0.07)

Energy

On-Peak Rate \$0.04673
Off-Peak Rate \$0.04373
Voltage Discount (\$0.00079)

Surcharges:

PSCR \$0.00000
REPS \$0.00
\$0.00

Distribution

Service Charge: \$375

Distribution Charges:

Demand \$1.74
Energy

Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
\$0.0312

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Percent	(d) Present Net Monthly Bill	(e) Proposed Net Monthly Bill	(f) Increase Amount	(g) Percent	(h) Proposed Unit Cost
1	1,000	300	@ 30%	\$29,356	\$31,301	\$1,945	6.63%	10.43¢
2	1,000	400	@ 30%	\$33,483	\$35,773	\$2,290	6.84%	8.94¢
3	1,000	500	@ 25%	\$37,535	\$40,170	\$2,635	7.02%	8.03¢
4	1,000	600	@ 25%	\$41,647	\$44,627	\$2,980	7.16%	7.44¢
5	1,000	650	@ 25%	\$43,703	\$46,856	\$3,153	7.21%	7.21¢
6								
7	5,000	300	@ 30%	\$140,327	\$150,052	\$9,725	6.93%	10.00¢
8	5,000	400	@ 30%	\$160,963	\$172,413	\$11,450	7.11%	8.62¢
9	5,000	500	@ 25%	\$181,224	\$194,399	\$13,175	7.27%	7.78¢
10	5,000	600	@ 25%	\$201,785	\$216,685	\$14,900	7.38%	7.22¢
11	5,000	650	@ 25%	\$212,065	\$227,828	\$15,763	7.43%	7.01¢
12								
13	10,000	300	@ 30%	\$279,041	\$298,491	\$19,450	6.97%	9.95¢
14	10,000	400	@ 30%	\$320,313	\$343,213	\$22,900	7.15%	8.58¢
15	10,000	500	@ 25%	\$360,835	\$387,185	\$26,350	7.30%	7.74¢
16	10,000	600	@ 25%	\$401,957	\$431,757	\$29,800	7.41%	7.20¢
17	10,000	650	@ 25%	\$422,518	\$454,043	\$31,525	7.46%	6.99¢
18								
19	50,000	300	@ 30%	\$1,388,753	\$1,486,003	\$97,250	7.00%	9.91¢
20	50,000	400	@ 30%	\$1,595,113	\$1,709,613	\$114,500	7.18%	8.55¢
21	50,000	500	@ 25%	\$1,797,723	\$1,929,473	\$131,750	7.33%	7.72¢
22	50,000	600	@ 25%	\$2,003,333	\$2,152,333	\$149,000	7.44%	7.17¢
23	50,000	650	@ 25%	\$2,106,138	\$2,263,763	\$157,625	7.48%	6.97¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Primary Educational Institution Rate - D6.2
Transmission 120kV and above

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$3.58
Voltage Level Discount (\$0.15)

Non-Capacity:

Power Supply Demand \$10.04
Voltage Level Discount (\$0.40)

Energy

On-Peak Rate \$0.04322
Off-Peak Rate \$0.04022
Voltage Discount (\$0.00162)

Surcharges:

PSCR \$0.00000
REPS >41,500kWh/month \$0.00
11,501-41,500 kWh/month \$0.00

Distribution

Service Charge: \$375

Distribution Charges:

Demand \$0.86
Energy

Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.0000

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand \$11.47
Voltage Level Adjustment (\$0.48)

Non-Capacity:

Power Supply Demand \$3.33
Voltage Level Discount (\$0.14)

Energy

On-Peak Rate \$0.04673
Off-Peak Rate \$0.04373
Voltage Discount (\$0.00176)

Surcharges:

PSCR \$0.00000
REPS \$0.00
\$0.00

Distribution

Service Charge: \$375

Distribution Charges:

Demand \$0.94
Energy

Substation Credit \$0.00

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.0000

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Percent	(d) Present Net Monthly Bill	(e) Proposed Net Monthly Bill	(f) Increase Amount	(g) Percent	(h) Proposed Unit Cost
1	1,000	300	@ 30%	\$27,658	\$29,859	\$2,201	7.96%	9.95¢
2	1,000	400	@ 30%	\$31,696	\$34,234	\$2,538	8.01%	8.56¢
3	1,000	500	@ 25%	\$35,659	\$38,534	\$2,875	8.06%	7.71¢
4	1,000	600	@ 25%	\$39,682	\$42,894	\$3,212	8.09%	7.15¢
5	1,000	650	@ 25%	\$41,694	\$45,074	\$3,381	8.11%	6.93¢
6								
7	5,000	300	@ 30%	\$131,836	\$142,841	\$11,005	8.35%	9.52¢
8	5,000	400	@ 30%	\$152,027	\$164,717	\$12,690	8.35%	8.24¢
9	5,000	500	@ 25%	\$171,843	\$186,218	\$14,375	8.37%	7.45¢
10	5,000	600	@ 25%	\$191,959	\$208,019	\$16,060	8.37%	6.93¢
11	5,000	650	@ 25%	\$202,017	\$218,919	\$16,903	8.37%	6.74¢
12								
13	10,000	300	@ 30%	\$262,059	\$284,069	\$22,010	8.40%	9.47¢
14	10,000	400	@ 30%	\$302,441	\$327,821	\$25,380	8.39%	8.20¢
15	10,000	500	@ 25%	\$342,073	\$370,823	\$28,750	8.40%	7.42¢
16	10,000	600	@ 25%	\$382,305	\$414,425	\$32,120	8.40%	6.91¢
17	10,000	650	@ 25%	\$402,421	\$436,226	\$33,805	8.40%	6.71¢
18								
19	50,000	300	@ 30%	\$1,303,843	\$1,413,893	\$110,050	8.44%	9.43¢
20	50,000	400	@ 30%	\$1,505,753	\$1,632,653	\$126,900	8.43%	8.16¢
21	50,000	500	@ 25%	\$1,703,913	\$1,847,663	\$143,750	8.44%	7.39¢
22	50,000	600	@ 25%	\$1,905,073	\$2,065,673	\$160,600	8.43%	6.89¢
23	50,000	650	@ 25%	\$2,005,653	\$2,174,678	\$169,025	8.43%	6.69¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Interruptible Supply Rate - D8
Primary Less Than 24kV

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand	\$1.62
Voltage Level Discount	\$0.00
Product Protection	\$3.56
Voltage Level Discount	\$0.00

Non-Capacity:

Power Supply Demand	\$8.50
Voltage Level Discount	\$0.00
Product Protection	\$13.33
Voltage Level Discount	\$0.00

Energy

On-Peak Rate	\$0.04257
Off-Peak Rate	\$0.03257
Voltage Discount	\$0.00000

Surcharges:

PSCR	\$0.00000
REPS >41,500kWh/month	\$0.00
11,501-41,500 kWh/month	\$0.00

Distribution

Service Charge:	\$70
Distribution Charges:	
Demand	\$6.15

Substation Credit \$0.00

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.0727

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand	\$4.51
Voltage Level Adjustment	\$0.00
Product Protection	\$9.77
Voltage Level Adjustment	\$0.00

Non-Capacity:

Power Supply Demand	\$5.62
Voltage Level Adjustment	\$0.00
Product Protection	\$7.24
Voltage Level Adjustment	\$0.00

Energy

On-Peak Rate	\$0.04278
Off-Peak Rate	\$0.03278
Voltage Discount	\$0.00000

Surcharges:

PSCR	\$0.00000
REPS	\$0.00
	\$0.00

Distribution

Service Charge:	\$70
Distribution Charges:	
Demand	\$6.36

Substation Credit \$0.00

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.0727

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) @ Percent	(d) Present Net Monthly Bill	(e) Proposed Net Monthly Bill	(f) Increase Amount	(g) Percent	(h) Proposed Unit Cost
1	50	300	@ 30%	\$2,740	\$2,755	\$15	0.56%	18.37¢
2	50	400	@ 25%	\$2,912	\$2,928	\$16	0.56%	14.64¢
3	50	500	@ 25%	\$3,092	\$3,109	\$17	0.56%	12.44¢
4	50	600	@ 25%	\$3,271	\$3,290	\$18	0.56%	10.97¢
5								
6	100	300	@ 30%	\$4,171	\$4,202	\$30	0.73%	14.01¢
7	100	400	@ 25%	\$4,516	\$4,548	\$33	0.72%	11.37¢
8	100	500	@ 25%	\$4,875	\$4,910	\$35	0.71%	9.82¢
9	100	600	@ 25%	\$5,235	\$5,272	\$37	0.70%	8.79¢
10								
11	500	300	@ 30%	\$15,624	\$15,777	\$152	0.98%	10.52¢
12	500	400	@ 25%	\$17,347	\$17,510	\$163	0.94%	8.75¢
13	500	500	@ 25%	\$19,144	\$19,318	\$173	0.91%	7.73¢
14	500	600	@ 25%	\$20,942	\$21,126	\$184	0.88%	7.04¢
15								
16	1,000	300	@ 30%	\$29,940	\$30,245	\$305	1.02%	10.08¢
17	1,000	400	@ 25%	\$33,385	\$33,711	\$326	0.98%	8.43¢
18	1,000	500	@ 25%	\$36,981	\$37,328	\$347	0.94%	7.47¢
19	1,000	600	@ 25%	\$40,576	\$40,944	\$368	0.91%	6.82¢
20								
21	5,000	300	@ 30%	\$144,469	\$145,994	\$1,525	1.06%	9.73¢
22	5,000	400	@ 25%	\$161,695	\$163,325	\$1,630	1.01%	8.17¢
23	5,000	500	@ 25%	\$179,671	\$181,406	\$1,735	0.97%	7.26¢
24	5,000	600	@ 25%	\$197,647	\$199,487	\$1,840	0.93%	6.65¢

1. The above bill comparison includes 20% product protection to better represent the total site bill versus only the interruptible portion.
2. The Hours-Use categories were changed to better reflect actual load characteristics

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Interruptible Supply Rate - D8
Subtransmission 24 to 41.6kV

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand	\$1.62
Voltage Level Discount	(\$0.03)
Product Protection	\$3.56
Voltage Level Discount	(\$0.07)

Non-Capacity:

Power Supply Demand	\$8.50
Voltage Level Discount	(\$0.15)
Product Protection	\$13.33
Voltage Level Discount	(\$0.24)

Energy

On-Peak Rate	\$0.04257
Off-Peak Rate	\$0.03257
Voltage Discount	(\$0.00062)

Surcharges:

PSCR	\$0.00000
REPS >41,500kWh/month	\$0.00
11,501-41,500 kWh	\$0.00

Distribution

Service Charge:	\$375
Distribution Charges:	
Demand	\$1.96

Substation Credit \$0.00

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.0312

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand	\$4.51
Voltage Level Adjustment	(\$0.09)
Product Protection	\$9.77
Voltage Level Adjustment	(\$0.20)

Non-Capacity:

Power Supply Demand	\$5.62
Voltage Level Adjustment	(\$0.11)
Product Protection	\$7.24
Voltage Level Adjustment	(\$0.15)

Energy

On-Peak Rate	\$0.04278
Off-Peak Rate	\$0.03278
Voltage Discount	(\$0.00062)

Surcharges:

PSCR	\$0.00000
REPS	\$0.00
	\$0.00

Distribution

Service Charge:	\$375
Distribution Charges:	
Demand	\$1.74

Substation Credit \$0.00

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.0312

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Line No.	Monthly kW Demand	Hours Use	Percent	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase Amount	Percent	Proposed Unit Cost
1	1,000	300	@ 30%	\$25,622	\$25,473	-\$149	-0.58%	8.49¢
2	1,000	400	@ 25%	\$29,005	\$28,877	-\$128	-0.44%	7.22¢
3	1,000	500	@ 25%	\$32,538	\$32,431	-\$107	-0.33%	6.49¢
4	1,000	600	@ 25%	\$36,071	\$35,985	-\$86	-0.24%	6.00¢
5								
6	5,000	300	@ 30%	\$121,657	\$120,912	-\$745	-0.61%	8.06¢
7	5,000	400	@ 25%	\$138,573	\$137,933	-\$640	-0.46%	6.90¢
8	5,000	500	@ 25%	\$156,239	\$155,704	-\$535	-0.34%	6.23¢
9	5,000	600	@ 25%	\$173,905	\$173,475	-\$430	-0.25%	5.78¢
10								
11	10,000	300	@ 30%	\$241,701	\$240,211	-\$1,490	-0.62%	8.01¢
12	10,000	400	@ 25%	\$275,533	\$274,253	-\$1,280	-0.46%	6.86¢
13	10,000	500	@ 25%	\$310,865	\$309,795	-\$1,070	-0.34%	6.20¢
14	10,000	600	@ 25%	\$346,197	\$345,337	-\$860	-0.25%	5.76¢
15								
16	50,000	300	@ 30%	\$1,202,053	\$1,194,603	-\$7,450	-0.62%	7.96¢
17	50,000	400	@ 25%	\$1,371,213	\$1,364,813	-\$6,400	-0.47%	6.82¢
18	50,000	500	@ 25%	\$1,547,873	\$1,542,523	-\$5,350	-0.35%	6.17¢
19	50,000	600	@ 25%	\$1,724,533	\$1,720,233	-\$4,300	-0.25%	5.73¢

1. The above bill comparison includes 20% product protection to better represent the total site bill versus only the interruptible portion.
2. The Hours-Use categories were changed to better reflect actual load characteristics

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Interruptible Supply Rate - D8
Transmission 120kV and above

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand	\$1.62
Voltage Level Discount	(\$0.07)
Product Protection	\$3.56
Voltage Level Discount	(\$0.15)

Non-Capacity:

Power Supply Demand	\$8.50
Voltage Level Discount	(\$0.33)
Product Protection	\$13.33
Voltage Level Discount	(\$0.53)

Energy

On-Peak Rate	\$0.04257
Off-Peak Rate	\$0.03257
Voltage Discount	(\$0.00138)

Surcharges:

PSCR	\$0.00000
REPS >41,500kWh/month	\$0.00
11,501-41,500 kWh	\$0.00

Distribution

Service Charge:	\$375
Distribution Charges:	
Demand	\$0.86

Substation Credit \$0.00

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.0000

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Power Supply Demand	\$4.51
Voltage Level Adjustment	(\$0.19)
Product Protection	\$9.77
Voltage Level Adjustment	(\$0.41)

Non-Capacity:

Power Supply Demand	\$5.62
Voltage Level Adjustment	(\$0.24)
Product Protection	\$7.24
Voltage Level Adjustment	(\$0.31)

Energy

On-Peak Rate	\$0.04278
Off-Peak Rate	\$0.03278
Voltage Discount	(\$0.00139)

Surcharges:

PSCR	\$0.00000
REPS	\$0.00
	\$0.00

Distribution

Service Charge:	\$375
Distribution Charges:	
Demand	\$0.94

Substation Credit \$0.00

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.0000

	(a)	(b)		(c)	(d)	(e)	(f)	(g)	(h)
Line No.	Monthly kW Demand	Hours Use		Percent	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase Amount	Percent	Proposed Unit Cost
1	1,000	300	@	30%	\$24,013	\$24,153	\$140	0.58%	8.05¢
2	1,000	400	@	25%	\$27,320	\$27,480	\$160	0.59%	6.87¢
3	1,000	500	@	25%	\$30,777	\$30,957	\$180	0.58%	6.19¢
4	1,000	600	@	25%	\$34,234	\$34,434	\$200	0.58%	5.74¢
5									
6	5,000	300	@	30%	\$113,611	\$114,311	\$700	0.62%	7.62¢
7	5,000	400	@	25%	\$130,147	\$130,947	\$800	0.61%	6.55¢
8	5,000	500	@	25%	\$147,433	\$148,333	\$900	0.61%	5.93¢
9	5,000	600	@	25%	\$164,719	\$165,719	\$1,000	0.61%	5.52¢
10									
11	10,000	300	@	30%	\$225,609	\$227,009	\$1,400	0.62%	7.57¢
12	10,000	400	@	25%	\$258,681	\$260,281	\$1,600	0.62%	6.51¢
13	10,000	500	@	25%	\$293,253	\$295,053	\$1,800	0.61%	5.90¢
14	10,000	600	@	25%	\$327,825	\$329,825	\$2,000	0.61%	5.50¢
15									
16	50,000	300	@	30%	\$1,121,593	\$1,128,593	\$7,000	0.62%	7.52¢
17	50,000	400	@	25%	\$1,286,953	\$1,294,953	\$8,000	0.62%	6.47¢
18	50,000	500	@	25%	\$1,459,813	\$1,468,813	\$9,000	0.62%	5.88¢
19	50,000	600	@	25%	\$1,632,673	\$1,642,673	\$10,000	0.61%	5.48¢

1. The above bill comparison includes 20% product protection to better represent the total site bill versus only the interruptible portion.
2. The Hours-Use categories were changed to better reflect actual load characteristics

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
All Electric School Buildings Rate - D10
November Thru May

Case No.: U-21534
 Exhibit: S-6
 Schedule: F4
 Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy Charge \$0.00094

Non-Capacity:

Energy Charge \$0.07430

Surcharges:

PSCR \$0.00000

REPS >41,500kWh/month \$0.00

11,501-41,500 kWh/month \$0.00

Distribution

Service Charge \$70

Distribution Energy Charge \$0.01968

Surcharges:

NDS \$0.000882

Energy Waste Reduction \$1,238

IRM \$0.000233

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy Charge \$0.01579

Non-Capacity:

Energy Charge \$0.05994

Surcharges:

PSCR \$0.00000

REPS \$0.00

\$0.00

Distribution

Service Charge \$70

Distribution Energy Charge \$0.01884

Surcharges:

NDS \$0.000882

Energy Waste Reduction \$1,238

IRM \$0.000233

Line No.	(a) Monthly kWh Use	(b) Present Net Monthly Bill	(c) Proposed Net Monthly Bill	Increase		(f) Proposed Unit Cost
				Amount	Percent	
1	40,000	\$5,149	\$5,135	-\$14.00	-0.27%	12.84¢
2	50,000	\$6,110	\$6,092	-\$17.50	-0.29%	12.18¢
3	60,000	\$7,070	\$7,049	-\$21.00	-0.30%	11.75¢
4	70,000	\$8,030	\$8,006	-\$24.50	-0.31%	11.44¢
5	80,000	\$8,991	\$8,963	-\$28.00	-0.31%	11.20¢
6	90,000	\$9,951	\$9,920	-\$31.50	-0.32%	11.02¢
7	100,000	\$10,911	\$10,876	-\$35.00	-0.32%	10.88¢
8	110,000	\$11,872	\$11,833	-\$38.50	-0.32%	10.76¢
9	120,000	\$12,832	\$12,790	-\$42.00	-0.33%	10.66¢
10	130,000	\$13,793	\$13,747	-\$45.50	-0.33%	10.57¢
11	140,000	\$14,753	\$14,704	-\$49.00	-0.33%	10.50¢

**Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
All Electric School Buildings Rate - D10
June Thru October**

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy Charge \$0.02107

Non-Capacity:

Energy Charge \$0.07430

Surcharges:

PSCR \$0.00000

REPS >41,500kWh/month \$0.00

11,501-41,500 kWh/month \$0.00

Distribution

Service Charge \$70

Distribution Energy Charge \$0.01968

Surcharges:

NDS \$0.000882

Energy Waste Reduction \$1,238

IRM \$0.000233

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy Charge \$0.03592

Non-Capacity:

Energy Charge \$0.05994

Surcharges:

PSCR \$0.00000

REPS \$0.00

\$0.00

Distribution

Service Charge \$70

Distribution Energy Charge \$0.01884

Surcharges:

NDS \$0.000882

Energy Waste Reduction \$1,238

\$0.000233

Line No.	(a) Monthly kWh Use	(b) Present Net Monthly Bill	(c) Proposed Net Monthly Bill	(d) Increase Amount	(e) Percent	(f) Proposed Unit Cost
1	40,000	\$5,955	\$5,941	-\$14.00	-0.24%	14.85¢
2	60,000	\$8,278	\$8,257	-\$21.00	-0.25%	13.76¢
3	80,000	\$10,601	\$10,573	-\$28.00	-0.26%	13.22¢
4	100,000	\$12,924	\$12,889	-\$35.00	-0.27%	12.89¢
5	120,000	\$15,248	\$15,206	-\$42.00	-0.28%	12.67¢
6	140,000	\$17,571	\$17,522	-\$49.00	-0.28%	12.52¢
7	160,000	\$19,894	\$19,838	-\$56.00	-0.28%	12.40¢
8	180,000	\$22,218	\$22,155	-\$63.00	-0.28%	12.31¢
9	200,000	\$24,541	\$24,471	-\$70.00	-0.29%	12.24¢
10	220,000	\$26,864	\$26,787	-\$77.00	-0.29%	12.18¢
11	240,000	\$29,188	\$29,104	-\$84.00	-0.29%	12.13¢
12	260,000	\$31,511	\$31,420	-\$91.00	-0.29%	12.08¢
13	280,000	\$33,834	\$33,736	-\$98.00	-0.29%	12.05¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
XL High Load Factor Rate - D13
Primary

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 42 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy Charge \$0.01514

Non-Capacity:

Energy Charge \$0.03430

Transmission Charge \$0.00304

Surcharges:

REPS \$0.00

Distribution

Service Charge \$70

Distribution Energy Charge \$0.00936

Administration Charge \$0.00015

Surcharges:

Energy Waste Reduction \$1,237.99

IRM \$0.000133

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy Charge \$0.01514

Non-Capacity:

Energy Charge \$0.03287

Transmission Charge \$0.00308

Surcharges:

REPS \$0.00

Distribution

Service Charge \$70

Distribution Energy Charge \$0.00968

Administration Charge \$0.00015

Surcharges:

Energy Waste Reduction \$1,237.99

IRM \$0.000133

	(a)	(b)	(c)	(d)	(e)	(f)
Line No.	Monthly kWh Use	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed Unit Cost
				Amount	Percent	
1	27,000,000	\$1,678,629	\$1,649,739	-\$28,890	-1.72%	6.11¢
2	29,000,000	\$1,802,875	\$1,771,845	-\$31,030	-1.72%	6.11¢
3	31,000,000	\$1,927,121	\$1,893,951	-\$33,170	-1.72%	6.11¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
XL High Load Factor Rate - D13
Subtransmission

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 43 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy Charge \$0.01514

Non-Capacity:

Energy Charge \$0.03430

Transmission Charge \$0.00304

Surcharges:

REPS \$0.00

Distribution

Service Charge \$375

Distribution Energy Charge \$0.00298

Administration Charge \$0.00015

Surcharges:

Energy Waste Reduction \$1,237.99

IRM \$0.000057

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy Charge \$0.01514

Non-Capacity:

Energy Charge \$0.03287

Transmission Charge \$0.00308

Surcharges:

REPS \$0.00

Distribution

Service Charge \$375

Distribution Energy Charge \$0.00265

Administration Charge \$0.00015

Surcharges:

Energy Waste Reduction \$1,237.99

IRM \$0.000057

	(a)	(b)	(c)	(d)	(e)	(f)
Line No.	Monthly kWh Use	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed Unit Cost
				Amount	Percent	
1	27,000,000	\$1,504,622	\$1,458,182	-\$46,440	-3.09%	5.40¢
2	29,000,000	\$1,615,956	\$1,566,076	-\$49,880	-3.09%	5.40¢
3	31,000,000	\$1,727,290	\$1,673,970	-\$53,320	-3.09%	5.40¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
XL High Load Factor Rate - D13
Transmission

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy Charge \$0.01514

Non-Capacity:

Energy Charge \$0.03430

Transmission Charge \$0.00304

Surcharges:

REPS \$0.00

Distribution

Service Charge \$375

Distribution Energy Charge \$0.00131

Administration Charge \$0.00015

Surcharges:

Energy Waste Reduction \$1,237.99

IRM \$0.000000

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy Charge \$0.01514

Non-Capacity:

Energy Charge \$0.03287

Transmission Charge \$0.00308

Surcharges:

REPS \$0.00

Distribution

Service Charge \$375

Distribution Energy Charge \$0.00144

Administration Charge \$0.00015

Surcharges:

Energy Waste Reduction \$1,237.99

IRM \$0.000000

	(a)	(b)	(c)	(d)	(e)	(f)
Line No.	Monthly kWh Use	Present Net Monthly Bill	Proposed Net Monthly Bill	Increase		Proposed Unit Cost
				Amount	Percent	
1	27,000,000	\$1,457,993	\$1,423,973	-\$34,020	-2.33%	5.27¢
2	29,000,000	\$1,565,873	\$1,529,333	-\$36,540	-2.33%	5.27¢
3	31,000,000	\$1,673,753	\$1,634,693	-\$39,060	-2.33%	5.27¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Alternative Metal Melting - Standard Contract Rider No. R1.1
Secondary Voltage Level

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use \$0.00706
Excess Hrs. Use \$0.00267

Non-Capacity:

Energy \$0.05251

Surcharges:

PSCR \$0.00000
REPS \$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use \$0.05288
Excess Hrs. Use \$0.05288

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.000555

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use \$0.01902
Excess Hrs. Use \$0.00719

Non-Capacity:

Energy \$0.04723

Surcharges:

PSCR \$0.00000
REPS \$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use \$0.05917
Excess Hrs. Use \$0.05917

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
\$0.000555

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Line	Monthly	Hours	Present Net	Proposed Net	Increase		Proposed
No.	kW Demand	Use	Monthly Bill	Monthly Bill	Amount	Percent	Unit Cost
1	50	100	\$1,807	\$1,872	\$64.85	3.59%	37.45¢
2	50	200	\$2,355	\$2,447	\$92.50	3.93%	24.47¢
3	50	300	\$2,902	\$3,023	\$120.15	4.14%	20.15¢
4	50	400	\$3,450	\$3,598	\$147.80	4.28%	17.99¢
5	50	500	\$3,997	\$4,173	\$175.45	4.39%	16.69¢
6	50	600	\$4,545	\$4,748	\$203.10	4.47%	15.83¢
7	50	700	\$5,092	\$5,323	\$230.75	4.53%	15.21¢
8							
9	500	100	\$6,932	\$7,581	\$648.50	9.35%	15.16¢
10	500	200	\$12,407	\$13,332	\$925.00	7.46%	13.33¢
11	500	300	\$17,882	\$19,084	\$1,201.50	6.72%	12.72¢
12	500	400	\$23,357	\$24,835	\$1,478.00	6.33%	12.42¢
13	500	500	\$28,832	\$30,586	\$1,754.50	6.09%	12.23¢
14	500	600	\$34,307	\$36,338	\$2,031.00	5.92%	12.11¢
15	500	700	\$39,781	\$42,089	\$2,307.50	5.80%	12.03¢
16							
17	1000	100	\$12,627	\$13,924	\$1,297.00	10.27%	13.92¢
18	1,000	200	\$23,576	\$25,426	\$1,850.00	7.85%	12.71¢
19	1,000	300	\$34,526	\$36,929	\$2,403.00	6.96%	12.31¢
20	1,000	400	\$45,476	\$48,432	\$2,956.00	6.50%	12.11¢
21	1,000	500	\$56,425	\$59,934	\$3,509.00	6.22%	11.99¢
22	1,000	600	\$67,375	\$71,437	\$4,062.00	6.03%	11.91¢
23	1,000	700	\$78,325	\$82,940	\$4,615.00	5.89%	11.85¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Alternative Metal Melting - Standard Contract Rider No. R1.1
Primary Less Than 24kV

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 46 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use \$0.00525
Excess Hrs. Use \$0.00191

Non-Capacity:

Energy \$0.05251

Surcharges:

PSCR \$0.00000
REPS \$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use \$0.01832
Excess Hrs. Use \$0.01832

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.000229

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use \$0.01415
Excess Hrs. Use \$0.00515

Non-Capacity:

Energy \$0.04723

Surcharges:

PSCR \$0.00000
REPS \$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use \$0.01926
Excess Hrs. Use \$0.01926

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.000229

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Percent	(g) Proposed Unit Cost
1	50	100	\$1,624	\$1,647	\$22.80	1.40%	32.93¢
2	50	200	\$1,993	\$2,011	\$17.30	0.87%	20.11¢
3	50	300	\$2,362	\$2,374	\$11.80	0.50%	15.83¢
4	50	400	\$2,732	\$2,738	\$6.30	0.23%	13.69¢
5	50	500	\$3,101	\$3,102	\$0.80	0.03%	12.41¢
6	50	600	\$3,470	\$3,466	-\$4.70	-0.14%	11.55¢
7	50	700	\$3,839	\$3,829	-\$10.20	-0.27%	10.94¢
8							
9	500	100	\$5,098	\$5,326	\$228.00	4.47%	10.65¢
10	500	200	\$8,790	\$8,963	\$173.00	1.97%	8.96¢
11	500	300	\$12,483	\$12,601	\$118.00	0.95%	8.40¢
12	500	400	\$16,175	\$16,238	\$63.00	0.39%	8.12¢
13	500	500	\$19,868	\$19,876	\$8.00	0.04%	7.95¢
14	500	600	\$23,560	\$23,513	-\$47.00	-0.20%	7.84¢
15	500	700	\$27,253	\$27,151	-\$102.00	-0.37%	7.76¢
16							
17	1,000	100	\$8,957	\$9,413	\$456.00	5.09%	9.41¢
18	1,000	200	\$16,342	\$16,688	\$346.00	2.12%	8.34¢
19	1,000	300	\$23,727	\$23,963	\$236.00	0.99%	7.99¢
20	1,000	400	\$31,112	\$31,238	\$126.00	0.40%	7.81¢
21	1,000	500	\$38,497	\$38,513	\$16.00	0.04%	7.70¢
22	1,000	600	\$45,883	\$45,789	-\$94.00	-0.20%	7.63¢
23	1,000	700	\$53,268	\$53,064	-\$204.00	-0.38%	7.58¢
24							
25	5,000	100	\$39,833	\$42,113	\$2,280.00	5.72%	8.42¢
26	5,000	200	\$76,759	\$78,489	\$1,730.00	2.25%	7.85¢
27	5,000	300	\$113,684	\$114,864	\$1,180.00	1.04%	7.66¢
28	5,000	400	\$150,610	\$151,240	\$630.00	0.42%	7.56¢
29	5,000	500	\$187,535	\$187,615	\$80.00	0.04%	7.50¢
30	5,000	600	\$224,461	\$223,991	-\$470.00	-0.21%	7.47¢
31	5,000	700	\$261,386	\$260,366	-\$1,020.00	-0.39%	7.44¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Alternative Metal Melting - Standard Contract Rider No. R1.1
Subtransmission 24 to 41.6kV

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 47 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use \$0.00512
Excess Hrs. Use \$0.00178

Non-Capacity:

Energy \$0.05251

Surcharges:

PSCR \$0.00000
REPS \$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use \$0.00677
Excess Hrs. Use \$0.00677

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.000104

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use \$0.01380
Excess Hrs. Use \$0.00480

Non-Capacity:

Energy \$0.04723

Surcharges:

PSCR \$0.00000
REPS \$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use \$0.00510
Excess Hrs. Use \$0.00510

Surcharges:

NDS \$0.000882
Energy Waste Reduction \$1,238
IRM \$0.000104

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase		(f) Percent	(g) Proposed Unit Cost
					Amount			
1	50	100	\$1,565	\$1,574	\$8.65	0.55%		31.47¢
2	50	200	\$1,875	\$1,864	-\$11.00	-0.59%		18.64¢
3	50	300	\$2,185	\$2,155	-\$30.65	-1.40%		14.36¢
4	50	400	\$2,496	\$2,445	-\$50.30	-2.02%		12.23¢
5	50	500	\$2,806	\$2,736	-\$69.95	-2.49%		10.94¢
6	50	600	\$3,116	\$3,026	-\$89.60	-2.88%		10.09¢
7	50	700	\$3,426	\$3,317	-\$109.25	-3.19%		9.48¢
8								
9	500	100	\$4,507	\$4,594	\$86.50	1.92%		9.19¢
10	500	200	\$7,610	\$7,500	-\$110.00	-1.45%		7.50¢
11	500	300	\$10,712	\$10,405	-\$306.50	-2.86%		6.94¢
12	500	400	\$13,814	\$13,311	-\$503.00	-3.64%		6.66¢
13	500	500	\$16,916	\$16,217	-\$699.50	-4.14%		6.49¢
14	500	600	\$20,019	\$19,123	-\$896.00	-4.48%		6.37¢
15	500	700	\$23,121	\$22,029	-\$1,092.50	-4.73%		6.29¢
16								
17	1,000	100	\$7,777	\$7,950	\$173.00	2.22%		7.95¢
18	1,000	200	\$13,981	\$13,761	-\$220.00	-1.57%		6.88¢
19	1,000	300	\$20,186	\$19,573	-\$613.00	-3.04%		6.52¢
20	1,000	400	\$26,390	\$25,384	-\$1,006.00	-3.81%		6.35¢
21	1,000	500	\$32,595	\$31,196	-\$1,399.00	-4.29%		6.24¢
22	1,000	600	\$38,800	\$37,008	-\$1,792.00	-4.62%		6.17¢
23	1,000	700	\$45,004	\$42,819	-\$2,185.00	-4.86%		6.12¢
24								
25	5,000	100	\$33,931	\$34,796	\$865.00	2.55%		6.96¢
26	5,000	200	\$64,954	\$63,854	-\$1,100.00	-1.69%		6.39¢
27	5,000	300	\$95,977	\$92,912	-\$3,065.00	-3.19%		6.19¢
28	5,000	400	\$127,000	\$121,970	-\$5,030.00	-3.96%		6.10¢
29	5,000	500	\$158,023	\$151,028	-\$6,995.00	-4.43%		6.04¢
30	5,000	600	\$189,046	\$180,086	-\$8,960.00	-4.74%		6.00¢
31	5,000	700	\$220,069	\$209,144	-\$10,925.00	-4.96%		5.98¢
32								
33	10,000	100	\$66,624	\$68,354	\$1,730.00	2.60%		6.84¢
34	10,000	200	\$128,670	\$126,470	-\$2,200.00	-1.71%		6.32¢
35	10,000	300	\$190,716	\$184,586	-\$6,130.00	-3.21%		6.15¢
36	10,000	400	\$252,762	\$242,702	-\$10,060.00	-3.98%		6.07¢
37	10,000	500	\$314,808	\$300,818	-\$13,990.00	-4.44%		6.02¢
38	10,000	600	\$376,854	\$358,934	-\$17,920.00	-4.76%		5.98¢
39	10,000	700	\$438,900	\$417,050	-\$21,850.00	-4.98%		5.96¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Alternative Metal Melting - Standard Contract Rider No. R1.1
Transmission 120kV and above

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 48 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use	\$0.00434
Excess Hrs. Use	\$0.00144

Non-Capacity:

Energy	\$0.05251

Surcharges:

PSCR	\$0.00000
REPS	\$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use	\$0.00274
Excess Hrs. Use	\$0.00274

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.000000

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use	\$0.01169
Excess Hrs. Use	\$0.00388

Non-Capacity:

Energy	\$0.04723

Surcharges:

PSCR	\$0.00000
REPS	\$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use	\$0.00571
Excess Hrs. Use	\$0.00571

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.000000

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Line	Monthly	Hours	Present Net	Proposed Net	Increase		Proposed
No.	kW Demand	Use	Monthly Bill	Monthly Bill	Amount	Percent	Unit Cost
1	50	100	\$1,540	\$1,566	\$25.20	1.64%	31.31¢
2	50	200	\$1,828	\$1,854	\$25.85	1.41%	18.54¢
3	50	300	\$2,116	\$2,143	\$26.50	1.25%	14.28¢
4	50	400	\$2,404	\$2,431	\$27.15	1.13%	12.16¢
5	50	500	\$2,692	\$2,720	\$27.80	1.03%	10.88¢
6	50	600	\$2,980	\$3,008	\$28.45	0.95%	10.03¢
7	50	700	\$3,268	\$3,297	\$29.10	0.89%	9.42¢
8							
9	500	100	\$4,262	\$4,514	\$252.00	5.91%	9.03¢
10	500	200	\$7,140	\$7,399	\$258.50	3.62%	7.40¢
11	500	300	\$10,019	\$10,284	\$265.00	2.65%	6.86¢
12	500	400	\$12,897	\$13,169	\$271.50	2.11%	6.58¢
13	500	500	\$15,776	\$16,054	\$278.00	1.76%	6.42¢
14	500	600	\$18,655	\$18,939	\$284.50	1.53%	6.31¢
15	500	700	\$21,533	\$21,824	\$291.00	1.35%	6.24¢
16							
17	1,000	100	\$7,285	\$7,789	\$504.00	6.92%	7.79¢
18	1,000	200	\$13,042	\$13,559	\$517.00	3.96%	6.78¢
19	1,000	300	\$18,800	\$19,330	\$530.00	2.82%	6.44¢
20	1,000	400	\$24,557	\$25,100	\$543.00	2.21%	6.27¢
21	1,000	500	\$30,314	\$30,870	\$556.00	1.83%	6.17¢
22	1,000	600	\$36,071	\$36,640	\$569.00	1.58%	6.11¢
23	1,000	700	\$41,828	\$42,410	\$582.00	1.39%	6.06¢
24							
25	5,000	100	\$31,474	\$33,994	\$2,520.00	8.01%	6.80¢
26	5,000	200	\$60,260	\$62,845	\$2,585.00	4.29%	6.28¢
27	5,000	300	\$89,046	\$91,696	\$2,650.00	2.98%	6.11¢
28	5,000	400	\$117,832	\$120,547	\$2,715.00	2.30%	6.03¢
29	5,000	500	\$146,618	\$149,398	\$2,780.00	1.90%	5.98¢
30	5,000	600	\$175,404	\$178,249	\$2,845.00	1.62%	5.94¢
31	5,000	700	\$204,190	\$207,100	\$2,910.00	1.43%	5.92¢
32							
33	10,000	100	\$61,710	\$66,750	\$5,040.00	8.17%	6.67¢
34	10,000	200	\$119,282	\$124,452	\$5,170.00	4.33%	6.22¢
35	10,000	300	\$176,854	\$182,154	\$5,300.00	3.00%	6.07¢
36	10,000	400	\$234,426	\$239,856	\$5,430.00	2.32%	6.00¢
37	10,000	500	\$291,998	\$297,558	\$5,560.00	1.90%	5.95¢
38	10,000	600	\$349,570	\$355,260	\$5,690.00	1.63%	5.92¢
39	10,000	700	\$407,142	\$412,962	\$5,820.00	1.43%	5.90¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Electric Process Heat - Standard Contract Rider No. R1.2
Secondary Voltage Level

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
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Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use	\$0.00706
Excess Hrs. Use	\$0.00267

Non-Capacity:

Energy	\$0.05251

Surcharges:

PSCR	\$0.00000
REPS	\$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use	\$0.05288
Excess Hrs. Use	\$0.05288

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.000555

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use	\$0.01902
Excess Hrs. Use	\$0.00719

Non-Capacity:

Energy	\$0.04723

Surcharges:

PSCR	\$0.00000
REPS	\$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use	\$0.05917
Excess Hrs. Use	\$0.05917

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.000555

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Percent	(g) Proposed Unit Cost
1	50	100	\$1,807	\$1,872	\$64.85	3.59%	37.45¢
2	50	200	\$2,355	\$2,447	\$92.50	3.93%	24.47¢
3	50	300	\$2,902	\$3,023	\$120.15	4.14%	20.15¢
4	50	400	\$3,450	\$3,598	\$147.80	4.28%	17.99¢
5	50	500	\$3,997	\$4,173	\$175.45	4.39%	16.69¢
6	50	600	\$4,545	\$4,748	\$203.10	4.47%	15.83¢
7	50	700	\$5,092	\$5,323	\$230.75	4.53%	15.21¢
8							
9	500	100	\$6,932	\$7,581	\$648.50	9.35%	15.16¢
10	500	200	\$12,407	\$13,332	\$925.00	7.46%	13.33¢
11	500	300	\$17,882	\$19,084	\$1,201.50	6.72%	12.72¢
12	500	400	\$23,357	\$24,835	\$1,478.00	6.33%	12.42¢
13	500	500	\$28,832	\$30,586	\$1,754.50	6.09%	12.23¢
14	500	600	\$34,307	\$36,338	\$2,031.00	5.92%	12.11¢
15	500	700	\$39,781	\$42,089	\$2,307.50	5.80%	12.03¢
16							
17	1000	100	\$12,627	\$13,924	\$1,297.00	10.27%	13.92¢
18	1,000	200	\$23,576	\$25,426	\$1,850.00	7.85%	12.71¢
19	1,000	300	\$34,526	\$36,929	\$2,403.00	6.96%	12.31¢
20	1,000	400	\$45,476	\$48,432	\$2,956.00	6.50%	12.11¢
21	1,000	500	\$56,425	\$59,934	\$3,509.00	6.22%	11.99¢
22	1,000	600	\$67,375	\$71,437	\$4,062.00	6.03%	11.91¢
23	1,000	700	\$78,325	\$82,940	\$4,615.00	5.89%	11.85¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Electric Process Heat - Standard Contract Rider No. R1.2
Primary Less Than 24kV

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 50 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use	\$0.00525
Excess Hrs. Use	\$0.00191

Non-Capacity:

Energy	\$0.05251

Surcharges:

PSCR	\$0.00000
REPS	\$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use	\$0.01832
Excess Hrs. Use	\$0.01832

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.000229

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use	\$0.01415
Excess Hrs. Use	\$0.00515

Non-Capacity:

Energy	\$0.04723

Surcharges:

PSCR	\$0.00000
REPS	\$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use	\$0.01926
Excess Hrs. Use	\$0.01926

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.000229

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Percent	(g) Proposed Unit Cost
1	50	100	\$1,624	\$1,647	\$22.80	1.40%	32.93¢
2	50	200	\$1,993	\$2,011	\$17.30	0.87%	20.11¢
3	50	300	\$2,362	\$2,374	\$11.80	0.50%	15.83¢
4	50	400	\$2,732	\$2,738	\$6.30	0.23%	13.69¢
5	50	500	\$3,101	\$3,102	\$0.80	0.03%	12.41¢
6	50	600	\$3,470	\$3,466	-\$4.70	-0.14%	11.55¢
7	50	700	\$3,839	\$3,829	-\$10.20	-0.27%	10.94¢
8							
9	500	100	\$5,098	\$5,326	\$228.00	4.47%	10.65¢
10	500	200	\$8,790	\$8,963	\$173.00	1.97%	8.96¢
11	500	300	\$12,483	\$12,601	\$118.00	0.95%	8.40¢
12	500	400	\$16,175	\$16,238	\$63.00	0.39%	8.12¢
13	500	500	\$19,868	\$19,876	\$8.00	0.04%	7.95¢
14	500	600	\$23,560	\$23,513	-\$47.00	-0.20%	7.84¢
15	500	700	\$27,253	\$27,151	-\$102.00	-0.37%	7.76¢
16							
17	1,000	100	\$8,957	\$9,413	\$456.00	5.09%	9.41¢
18	1,000	200	\$16,342	\$16,688	\$346.00	2.12%	8.34¢
19	1,000	300	\$23,727	\$23,963	\$236.00	0.99%	7.99¢
20	1,000	400	\$31,112	\$31,238	\$126.00	0.40%	7.81¢
21	1,000	500	\$38,497	\$38,513	\$16.00	0.04%	7.70¢
22	1,000	600	\$45,883	\$45,789	-\$94.00	-0.20%	7.63¢
23	1,000	700	\$53,268	\$53,064	-\$204.00	-0.38%	7.58¢
24							
25	5,000	100	\$39,833	\$42,113	\$2,280.00	5.72%	8.42¢
26	5,000	200	\$76,759	\$78,489	\$1,730.00	2.25%	7.85¢
27	5,000	300	\$113,684	\$114,864	\$1,180.00	1.04%	7.66¢
28	5,000	400	\$150,610	\$151,240	\$630.00	0.42%	7.56¢
29	5,000	500	\$187,535	\$187,615	\$80.00	0.04%	7.50¢
30	5,000	600	\$224,461	\$223,991	-\$470.00	-0.21%	7.47¢
31	5,000	700	\$261,386	\$260,366	-\$1,020.00	-0.39%	7.44¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Electric Process Heat - Standard Contract Rider No. R1.2
Subtransmission 24 to 41.6kV

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 51 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use	\$0.00512
Excess Hrs. Use	\$0.00178

Non-Capacity:

Energy	\$0.05251

Surcharges:

PSCR	\$0.00000
REPS	\$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use	\$0.00677
Excess Hrs. Use	\$0.00677

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.000104

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use	\$0.01380
Excess Hrs. Use	\$0.00480

Non-Capacity:

Energy	\$0.04723

Surcharges:

PSCR	\$0.00000
REPS	\$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use	\$0.00510
Excess Hrs. Use	\$0.00510

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.000104

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Percent	(g) Proposed Unit Cost
1	50	100	\$1,565	\$1,574	\$8.65	0.55%	31.47¢
2	50	200	\$1,875	\$1,864	-\$11.00	-0.59%	18.64¢
3	50	300	\$2,185	\$2,155	-\$30.65	-1.40%	14.36¢
4	50	400	\$2,496	\$2,445	-\$50.30	-2.02%	12.23¢
5	50	500	\$2,806	\$2,736	-\$69.95	-2.49%	10.94¢
6	50	600	\$3,116	\$3,026	-\$89.60	-2.88%	10.09¢
7	50	700	\$3,426	\$3,317	-\$109.25	-3.19%	9.48¢
8							
9	500	100	\$4,507	\$4,594	\$86.50	1.92%	9.19¢
10	500	200	\$7,610	\$7,500	-\$110.00	-1.45%	7.50¢
11	500	300	\$10,712	\$10,405	-\$306.50	-2.86%	6.94¢
12	500	400	\$13,814	\$13,311	-\$503.00	-3.64%	6.66¢
13	500	500	\$16,916	\$16,217	-\$699.50	-4.14%	6.49¢
14	500	600	\$20,019	\$19,123	-\$896.00	-4.48%	6.37¢
15	500	700	\$23,121	\$22,029	-\$1,092.50	-4.73%	6.29¢
16							
17	1,000	100	\$7,777	\$7,950	\$173.00	2.22%	7.95¢
18	1,000	200	\$13,981	\$13,761	-\$220.00	-1.57%	6.88¢
19	1,000	300	\$20,186	\$19,573	-\$613.00	-3.04%	6.52¢
20	1,000	400	\$26,390	\$25,384	-\$1,006.00	-3.81%	6.35¢
21	1,000	500	\$32,595	\$31,196	-\$1,399.00	-4.29%	6.24¢
22	1,000	600	\$38,800	\$37,008	-\$1,792.00	-4.62%	6.17¢
23	1,000	700	\$45,004	\$42,819	-\$2,185.00	-4.86%	6.12¢
24							
25	5,000	100	\$33,931	\$34,796	\$865.00	2.55%	6.96¢
26	5,000	200	\$64,954	\$63,854	-\$1,100.00	-1.69%	6.39¢
27	5,000	300	\$95,977	\$92,912	-\$3,065.00	-3.19%	6.19¢
28	5,000	400	\$127,000	\$121,970	-\$5,030.00	-3.96%	6.10¢
29	5,000	500	\$158,023	\$151,028	-\$6,995.00	-4.43%	6.04¢
30	5,000	600	\$189,046	\$180,086	-\$8,960.00	-4.74%	6.00¢
31	5,000	700	\$220,069	\$209,144	-\$10,925.00	-4.96%	5.98¢
32							
33	10,000	100	\$66,624	\$68,354	\$1,730.00	2.60%	6.84¢
34	10,000	200	\$128,670	\$126,470	-\$2,200.00	-1.71%	6.32¢
35	10,000	300	\$190,716	\$184,586	-\$6,130.00	-3.21%	6.15¢
36	10,000	400	\$252,762	\$242,702	-\$10,060.00	-3.98%	6.07¢
37	10,000	500	\$314,808	\$300,818	-\$13,990.00	-4.44%	6.02¢
38	10,000	600	\$376,854	\$358,934	-\$17,920.00	-4.76%	5.98¢
39	10,000	700	\$438,900	\$417,050	-\$21,850.00	-4.98%	5.96¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Electric Process Heat - Standard Contract Rider No. R1.2
Transmission 120kV and above

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 52 of 53

Present Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use	\$0.00434
Excess Hrs. Use	\$0.00144

Non-Capacity:

Energy	\$0.05251

Surcharges:

PSCR	\$0.00000
REPS	\$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use	\$0.00274
Excess Hrs. Use	\$0.00274

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.000000

Proposed Rates and Current Surcharges:

Power Supply

Capacity:

Energy

1st 100 Hrs. Use	\$0.01169
Excess Hrs. Use	\$0.00388

Non-Capacity:

Energy	\$0.04723

Surcharges:

PSCR	\$0.00000
REPS	\$0.00

Distribution

Distribution Charges:

1st 100 Hrs. Use	\$0.00571
Excess Hrs. Use	\$0.00571

Surcharges:

NDS	\$0.000882
Energy Waste Reduction	\$1,238
IRM	\$0.000000

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Percent	(g) Proposed Unit Cost
1	50	100	\$1,540	\$1,566	\$25.20	1.64%	31.31¢
2	50	200	\$1,828	\$1,854	\$25.85	1.41%	18.54¢
3	50	300	\$2,116	\$2,143	\$26.50	1.25%	14.28¢
4	50	400	\$2,404	\$2,431	\$27.15	1.13%	12.16¢
5	50	500	\$2,692	\$2,720	\$27.80	1.03%	10.88¢
6	50	600	\$2,980	\$3,008	\$28.45	0.95%	10.03¢
7	50	700	\$3,268	\$3,297	\$29.10	0.89%	9.42¢
8							
9	500	100	\$4,262	\$4,514	\$252.00	5.91%	9.03¢
10	500	200	\$7,140	\$7,399	\$258.50	3.62%	7.40¢
11	500	300	\$10,019	\$10,284	\$265.00	2.65%	6.86¢
12	500	400	\$12,897	\$13,169	\$271.50	2.11%	6.58¢
13	500	500	\$15,776	\$16,054	\$278.00	1.76%	6.42¢
14	500	600	\$18,655	\$18,939	\$284.50	1.53%	6.31¢
15	500	700	\$21,533	\$21,824	\$291.00	1.35%	6.24¢
16							
17	1,000	100	\$7,285	\$7,789	\$504.00	6.92%	7.79¢
18	1,000	200	\$13,042	\$13,559	\$517.00	3.96%	6.78¢
19	1,000	300	\$18,800	\$19,330	\$530.00	2.82%	6.44¢
20	1,000	400	\$24,557	\$25,100	\$543.00	2.21%	6.27¢
21	1,000	500	\$30,314	\$30,870	\$556.00	1.83%	6.17¢
22	1,000	600	\$36,071	\$36,640	\$569.00	1.58%	6.11¢
23	1,000	700	\$41,828	\$42,410	\$582.00	1.39%	6.06¢
24							
25	5,000	100	\$31,474	\$33,994	\$2,520.00	8.01%	6.80¢
26	5,000	200	\$60,260	\$62,845	\$2,585.00	4.29%	6.28¢
27	5,000	300	\$89,046	\$91,696	\$2,650.00	2.98%	6.11¢
28	5,000	400	\$117,832	\$120,547	\$2,715.00	2.30%	6.03¢
29	5,000	500	\$146,618	\$149,398	\$2,780.00	1.90%	5.98¢
30	5,000	600	\$175,404	\$178,249	\$2,845.00	1.62%	5.94¢
31	5,000	700	\$204,190	\$207,100	\$2,910.00	1.43%	5.92¢
32							
33	10,000	100	\$61,710	\$66,750	\$5,040.00	8.17%	6.67¢
34	10,000	200	\$119,282	\$124,452	\$5,170.00	4.33%	6.22¢
35	10,000	300	\$176,854	\$182,154	\$5,300.00	3.00%	6.07¢
36	10,000	400	\$234,426	\$239,856	\$5,430.00	2.32%	6.00¢
37	10,000	500	\$291,998	\$297,558	\$5,560.00	1.90%	5.95¢
38	10,000	600	\$349,570	\$355,260	\$5,690.00	1.63%	5.92¢
39	10,000	700	\$407,142	\$412,962	\$5,820.00	1.43%	5.90¢

Michigan Public Service Commission
DTE Electric Company
Staff Comparison of Present and Proposed Monthly Bills
Interruptible Supply Rider - Standard Contract Rider No. R10

Case No.: U-21534
Exhibit: S-6
Schedule: F4
Witness: D.W. Isakson
Page: 53 of 53

Present Rates and Current Surcharges:
Power Supply

Non-Capacity:
Administrative Charge \$0.00000
MISO Energy Charge \$0.03935
Net Trans MISO Mkt \$0.00767

Voltage Level Service Adder:
Primary - 5.50% of HPSC \$0.00259
Subtransmission - 3.73% of HPSC \$0.00175
Transmission - 1.56% of HPSC \$0.00073

Surcharges:
REPS \$0.00

Distribution
Service Charge PV: \$70
Service Charge SV: \$375
Service Charge TV: \$375
Distribution Charges:
Primary \$6.15
Subtransmission \$1.96
Transmission \$0.86

Surcharges:
NDS \$0.000882
Energy Waste Reduction \$1,238
IRM
Primary \$0.0727
Subtrans \$0.0312
Transmission \$0.0000

Proposed Rates and Current Surcharges:
Power Supply

Non-Capacity:
Administrative Charge \$0.00000
MISO Energy Charge \$0.03935
Net Trans MISO Mkt \$0.00769

Voltage Level Service Adder:
Primary - 5.50% of HPSC \$0.00259
Subtransmission - 3.73% of HPSC \$0.00175
Transmission - 1.56% of HPSC \$0.00073

Surcharges:
REPS \$0.00

Distribution
Service Charge: \$70
Service Charge SV: \$375
Service Charge TV: \$375
Distribution Charges:
Demand \$6.36
Demand \$1.74
Demand \$0.94

Surcharges:
NDS \$0.000882
Energy Waste Reduction \$1,238
IRM
Primary \$0.0727
Subtrans \$0.0312
Transmission \$0.0000

Line No.	(a) Monthly kW Demand	(b) Hours Use	(c) Present Net Monthly Bill	(d) Proposed Net Monthly Bill	(e) Increase Amount	(f) Percent	(g) Proposed Unit Cost
Primary Less Than 24kV							
1	10,000	200	\$164,511	\$166,653	\$2,142	1.30%	8.33¢
2	10,000	300	\$214,999	\$217,163	\$2,163	1.01%	7.24¢
3	10,000	400	\$265,487	\$267,672	\$2,184	0.82%	6.69¢
4	10,000	500	\$315,975	\$318,181	\$2,206	0.70%	6.36¢
Subtransmission 24 to 41.6kV							
5	10,000	200	\$120,837	\$118,678	-\$2,159	-1.79%	5.93¢
6	10,000	300	\$170,493	\$168,355	-\$2,138	-1.25%	5.61¢
7	10,000	400	\$220,148	\$218,031	-\$2,117	-0.96%	5.45¢
8	10,000	500	\$269,804	\$267,708	-\$2,096	-0.78%	5.35¢
Transmission 120kV and Up							
9	10,000	200	\$107,484	\$108,325	\$841	0.78%	5.42¢
10	10,000	300	\$156,120	\$156,980	\$861	0.55%	5.23¢
11	10,000	400	\$204,755	\$205,636	\$881	0.43%	5.14¢
12	10,000	500	\$253,391	\$254,292	\$902	0.36%	5.09¢

Michigan Public Service Commission
DTE Electric Company
Staff Calculation of Voltage Level Distribution Charges

Case No.: U-21534
Exhibit: S-6
Schedule: F5
Witness: D.W. Isakson
Page: 1 of 1

Line No.	(a) Present Base Delivery Revenue (\$000)	(b) Exh A-16, Sch F-1.2 Line 28 Revenue Def/(Suf) (\$000)	(c) (a) + (b) Target Base Revenue (\$000)	(d) Proposed Service Charge Revenue (\$000)	(e) Substation Credit (\$000)	(f) Target Distribution Demand Rev (\$000)	(g) Distribution Demand kW	(h) (f) ÷ (g) Primary Voltage Distribution Charge \$/kW
1	Primary Voltage							
2	Rate							
3	D11	129,470					20,713,457	
4	D6.2	16,557					2,655,419	
5	D8	6,913					1,106,505	
6	D10	701					101,535	
7	R1.1/R1.2	5,771					937,466	
8	R3	492					78,089	
9	R10	1,110					178,736	
10	Primary Voltage Total	161,015	5,528	2,567	0	163,975	25,771,207	6.36
11								
12	Subtransmission Voltage							
13	Rate							
14	D11	7,200					3,677,382	
15	D6.2	1,983					999,979	
16	D8	409					196,004	
17	R1.1/R1.2	520					219,761	
18	R3	968					483,801	
19	R10	149					65,584	
20	Subtransmission Voltage Total	11,229	(1,313)	526	(439)	9,829	5,642,510	1.74
21								
22	Transmission Voltage							
23	Rate							
24	D11	7,993					10,297,494	
25	D6.2	0					0	
26	D8	170					277,821	
27	R1.1/R1.2	174					379,377	
28	R3	84					92,427	
29	R10	2,991					3,790,403	
30	Transmission Voltage Total	11,411	1,386	471	(1,663)	13,989	14,837,522	0.94

Staff Proposed Tariff Sheet Corrections

1. Sheet No. D-14.03:
 - a. Issue: "In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volts, three-wire service may be taken" (missing period at end of the sentence.)
 - b. Correction: "In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volts, three-wire service may be taken."
2. Sheet No. D-40.00:
 - a. Issue: "...Midwest ISO energy market are above the D8 energy rate..."
 - b. Correction: "Midwest ISO energy market are above the D8 energy rate..."
3. Sheet No. D-48.02:
 - a. Issue: Under Delivery Charges "Subtransmission" ("subtransmission" is spelled incorrectly.)
 - b. Correction: "Subtransmission."
4. Sheet No. D-48.12 (Company proposed tariff):
 - a. Issue: Under Delivery Charges "Subtransmission" ("subtransmission" is spelled incorrectly.)
 - b. Correction: "Subtransmission."
5. Sheet No. D-57.00:
 - a. Issue: Extra period after Notice of Interruption paragraph.
 - b. Correction: remove period.
6. Sheet No. D-67.00:
 - a. Issue: "Modeling standby and supplemental rate impacts is dependant on several factors including customer load profile and type of generator(s) and other considerations." ("dependent" is spelled incorrectly.)
 - b. Correction: "Modeling standby and supplemental rate impacts is dependent on several factors including customer load profile and type of generator(s) and other considerations."

MPSC Case No: U-21534

Requester: Staff

Question No.: TMS-1.1a

Respondent: M. Cooper

Page: 1 of 1

Question: Relating to incentive compensation for the projected test year:
a. If no financial metrics are achieved, and all non-financial (Operational) metrics are achieved at target, what would the total office and non-officer payout be that would be reflected in the Revenue Requirement? Please list both separately.

Answer: If all financial measures are below Threshold performance (i.e., no payouts) and Target performance is achieved for all non-financial measures (i.e., Operating measures), the expense included in the revenue requirements would be as reflected in the table below.

<u>Employee Classification</u>	<u>Operating Measures</u> (\$000's)
Non-Officers	17,867
Officers	<u>2,404</u>
Total	<u><u>20,271</u></u>

Attachment: None

Table 3

	<u>LTIP</u>	<u>AIP</u>	<u>REP</u>	<u>Total</u>
	(000's Omitted)			
Financial				
DTE Electric	\$5,858	\$615	\$7,029	\$13,502
Nuclear Gen	1,395	92	839	2,326
DTE LLC	13,154	3,509	6,741	23,404
	20,408	4,215	14,609	39,232
Operating				
DTE Electric	0	504	5,758	6,262
Nuclear Gen	0	200	2,527	2,727
DTE LLC	0	3,862	7,420	11,281
	0	4,566	15,705	20,271
Total				
DTE Electric	5,858	1,119	12,787	19,764
Nuclear Gen	1,395	292	3,367	5,054
DTE LLC	13,154	7,370	14,161	34,686
	\$20,408	\$8,781	\$30,315	\$59,504



DTE Energy®

Case No.:

U-21534

Exhibit No.:

S-7.2

Witness:

Theresa McMillan-Sepkoski

Page:

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Climbing Together *Toward Our Goals*



DTE Energy Company *Long-Term Incentive Plan*

Restricted Stock and Performance Shares

What's Inside

Building Value Together	2
Your LTIP Award	3
A Closer Look: Restricted Stock	4
A Closer Look: Performance Shares	5
If You Terminate Employment	6
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Building Value Together

Case No.: U-21534
Exhibit No.: S-7.2
Witness: Theresa McMillan-Sepkoski
Page: 2 of 8

As the energy industry changes, your role as a leader is more critical than ever to drive performance and deliver results that will contribute to our continued business success.

Our Long-Term Incentive Plan (LTIP) is designed to strengthen the link between meaningful, profitable growth for the company and financial rewards for you. The LTIP gives you an ownership stake in our company with an opportunity to build personal wealth.

In return, DTE Energy (Company) expects you to focus on creating long-term value for the organization in your role as a company leader.

When we succeed, both you and the Company benefit.

Long-Term Incentive Plan Objectives



The plan is intended to:

- Enable you to share in the value created for shareholders
- Reward you for sustaining the Company's profitable growth
- Link your rewards to long-term financial results
- Attract, motivate and retain high-performing talent
- Offer competitive long-term incentive opportunities

Nothing in this Plan Summary is intended to be interpreted as a promise or guarantee of future or continued benefits or employment or as stating provisions or terms of employment. The Company and its employees recognize their mutual right to end their employment relationship at any time and acknowledge that such relationship is one of employment at will. Except with respect to employment at will, the Company reserves the right to change (including, but not limited to, the right to amend, suspend or terminate) its Human Resources policies, procedures, and benefits, including those for retirees, at its discretion, at any time without notice. The vice president of Human Resources is the only officer authorized to communicate such changes.

Portions of this document constitute part of a prospectus covering shares that have been registered under the Securities Act of 1933.

Your Long-Term Incentive Plan (LTIP) Award

The LTIP rewards you for making decisions and taking actions that will bring the Company long-term success. Your LTIP grant may be delivered in the form of two components:

- **Restricted Stock** is a grant of ownership rights to DTE Energy Company stock that typically will vest three years from the date of grant, but may vest differently in special situations, (subject to continued employment).
- **Performance Shares** give you the opportunity to receive a range of shares of DTE Energy Company stock after three years, subject to continued employment and achievement of performance targets.



When you own shares in the Company, you benefit financially when DTE Energy Company stock increases as well as when the Board authorizes a dividend. As a leader, you have the ability to make decisions that result in meeting or exceeding both short-term and long-term goals. When we achieve our goals, we are more likely to see our stock price increase.

Determining Your LTIP Award Target

Your LTIP award target is based on your job level, scope and responsibilities, as well as a review of market competitiveness. The number of restricted stock shares and the target number of performance shares you receive at the time of the grant are based on:

- The target value of your LTIP award; and,
- The DTE Energy Company stock price used at the time of the grant.



Let's look at a very simple example.

Assume your base pay is \$200,000, your LTIP target is 50% and the stock price is \$100. This would result in 1,000 shares granted as your LTIP award.

This example is just to illustrate the formula. It is not intended to represent an actual LTIP target award or the current DTE Energy Company stock price. In addition, there can be separate special ad hoc grants that are not based on this formula.

$$\text{\$200,000} \times 50\% = \text{\$100,000}$$

$$\text{\$100,000} \div \text{\$100} = 1,000$$



The actual number of units you receive is detailed in your Grant Agreement, which is provided separately.

To qualify for an LTIP grant, you must be designated by the Organization & Compensation Committee, the CEO, or the President as eligible to receive a grant.

A Closer Look: Restricted Stock

This is a grant of ownership rights to DTE Energy Company stock that will vest as long as you are employed with the Company and its subsidiaries through the vesting date, which is typically three years from the date of grant. After this date, you have full ownership of the shares and can sell or hold them. Although the number of shares you receive is fixed at the grant date, the price per share can increase or decrease based on the Company's performance and the overall stock market.



At-a-Glance

Restricted stock provides greater value when the stock price increases—and the higher it climbs, the larger your potential return.



These basic principles explain how restricted stock works:

Grant Date:

In most cases, the date your award is approved by the CEO, President or Organization & Compensation Committee of the Board. Awards are officially given to you each year you are eligible and typically occur in the first quarter.



Vesting:

Time period over which you'll earn the right to receive your award. As long as you remain employed with DTE Energy and its subsidiaries, your award will vest in accordance with the vesting terms set forth in your Grant Agreement.



Ownership:

Holders of restricted stock (even prior to your vesting date) have nearly all the rights of a shareholder, including the right to vote the shares and receive cash dividends (when authorized by the Board of Directors). You have these rights at the grant date.



A Closer Look: Performance Shares

Performance shares give you the opportunity to receive a range of shares of DTE Energy Company stock, cash or a combination of the two after the completion of the performance period, subject to your continued employment and the achievement of the performance targets. Superior Company results lead to higher rewards—up to two times the sum of your target number of shares plus reinvested stock dividend equivalents.

At-a-Glance

The number of performance shares you earn increases if the Company meets or exceeds target performance on specific metrics. If your shares are paid in DTE Energy Company stock, you benefit when the stock price increases and when the Board issues dividends—and the higher it climbs, the larger your potential return.



These basic principles explain how performance shares work:

Grant Date:

The day your performance share grant is approved by the CEO, President or Organization & Compensation Committee of the Board.

Awards are officially given to you each year you are eligible and typically occur in the first quarter.



Performance Metrics:

The number of shares earned is determined based on the level of achievement against performance targets of the company you are assigned on the grant date. The performance objectives, weightings and payout percentages established with respect to the grant are available at www.dtelitip.com.



Performance Period:

Begins on the first day of the calendar year in which the grant is made and lasts three consecutive calendar years. The number of shares earned is based on Company performance during the three-year performance period. As long as you remain employed, your right to payment vests on the payment date subsequent to the end of the three-year performance period. Your performance share awards may be settled in the form of cash, DTE Energy Company stock or some combination of the two.



Payout Range:

Based on actual performance of the Company during the three-year performance period, you may earn up to two times the sum of your target number of shares plus reinvested stock dividend equivalents.



Ownership:

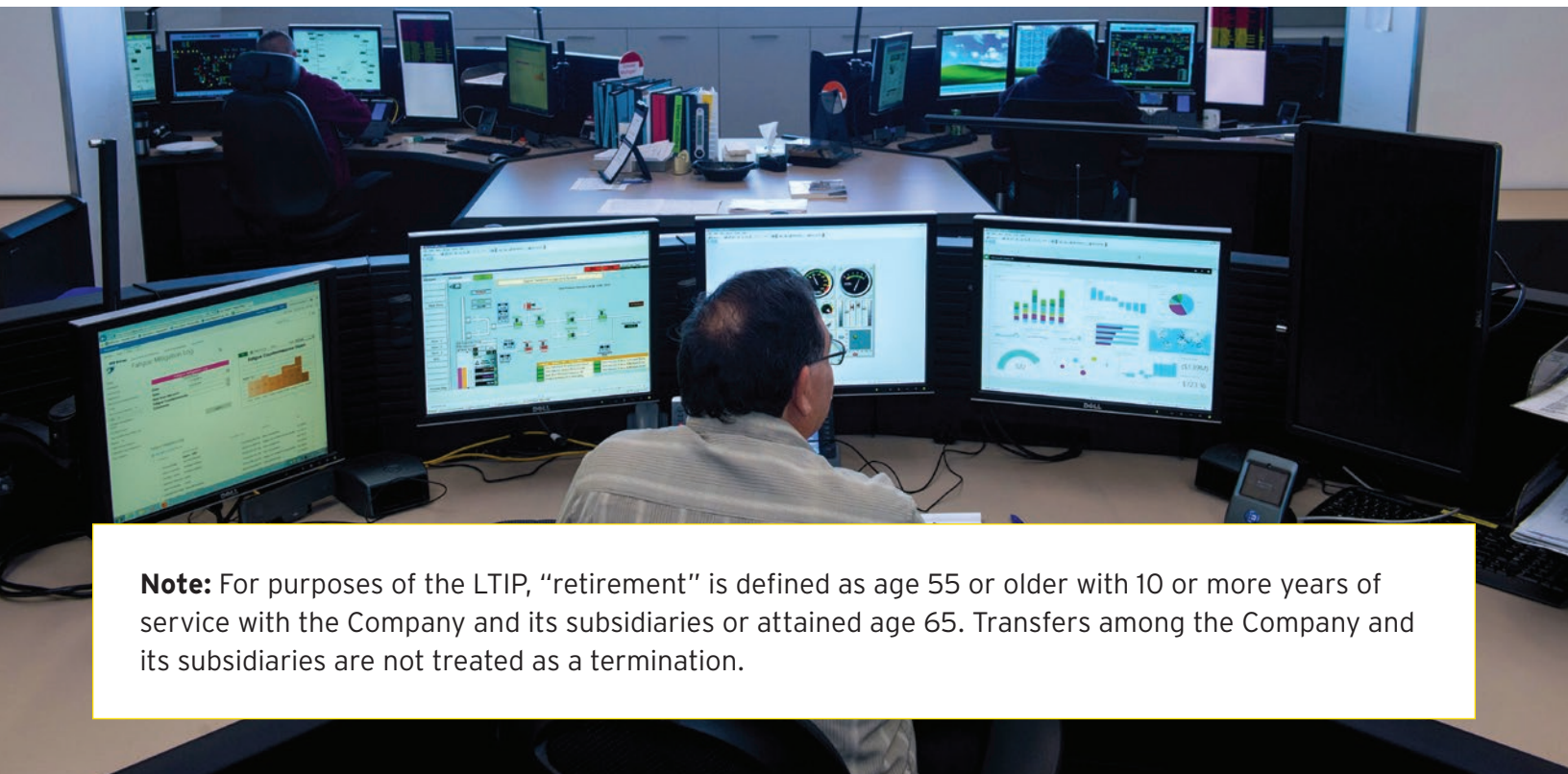
Holders of performance shares do not have voting rights. Dividend equivalents will be credited as additional shares during the three-year performance period.



What Happens If I Terminate Employment?

Generally, if your employment terminates before your stock grants have vested, the following guidelines will apply. However, the LTIP Plan Administrator retains the authority to take any other action it deems appropriate in its sole discretion.

	Restricted Stock	Performance Shares
Retirement, Death or Disability	You, or your designated beneficiary, will retain the rights to a pro-rated number of shares of restricted stock based on the actual number of days worked during the vesting period. Restrictions are lifted and stock is distributed after retirement, death or disability.	You, or your designated beneficiary, will retain the rights to a pro-rated number of performance shares based on the actual number of days worked during the performance period. Final payment, if any, will occur at the same time as for all other participants based on the pro-rated number of shares and actual results during the entire performance period.
Other Termination	Your rights to any unvested shares will be forfeited on the date of your termination.	Your rights to any future dividends and final payment will be forfeited on the date of your termination.



Note: For purposes of the LTIP, “retirement” is defined as age 55 or older with 10 or more years of service with the Company and its subsidiaries or attained age 65. Transfers among the Company and its subsidiaries are not treated as a termination.

Additional Information

Beneficiary Designation

You may name any beneficiary to inherit the right to these grants, according to the applicable terms. Beneficiaries may be designated at www.dteltip.com and each designation will revoke all prior designations.

Disability

Disability means you meet the definition of "Disability" or "Disabled" as defined in the current DTE Energy Company Long-Term Disability Plan certificate of coverage.

Transferability

These grants are nontransferable and are subject to risk of forfeiture. You may not sell, transfer, pledge, exchange or otherwise dispose of these grants or the right to receive cash or DTE Energy Company stock thereunder, except in the event of your death. If you have a valid beneficiary designation at www.dteltip.com, your rights under these grants will pass to your designated beneficiary. Otherwise, your rights under these grants will pass to the beneficiary designated in your will or, if your will does not designate a beneficiary or you do not have a will, your rights under these grants will pass to your estate. The LTIP Plan Administrator, in its sole discretion, may waive the restrictions on transferability with respect to all or a portion of the shares subject to these grants.

Hedging

You may not hedge or be involved in any similar transaction involving DTE Energy Company stock which has the effect of limiting or eliminating the full risks and rewards of ownership of DTE Energy Company stock.

No Right to Continued Employment

Neither the Grant Agreement, nor this Plan Summary, confers upon you any right with respect to continuance of employment by the Company or a subsidiary; nor shall it interfere in any way with the right of the Company or a subsidiary to terminate your employment at any time.

Participant Bound by Plan

You acknowledge that a copy of the DTE Energy Company Long-Term Incentive Plan has been made available to you, and you agree to be bound by all the terms and provisions thereof. All references herein to the Long-Term Incentive Plan and LTIP shall mean the equity plan as in effect on the date of grant.

Relation to Other Benefits

Grants under the Long-Term Incentive Plan are not considered compensation for purposes of the Company's qualified and non-qualified savings plans, the Company's qualified and non-qualified retirement plans, insurance or any other Company-sponsored qualified or non-qualified employee benefit programs.

Taxes

The Company is required to withhold any applicable federal, state, local or FICA tax in connection with the vesting and payment of your long-term grants. It shall be a condition to such vesting or payment that you pay all such taxes.

The value of restricted stock on the vesting date and the value of payment under a performance share award are taxed as compensation at ordinary income tax rates.



This Plan Summary provides information related to the DTE Energy Long-Term Incentive Plan. It does not contain all of the rules and governing terms included in the incentive programs' documents that may be applicable to you. If there are any differences between the information in this booklet and the program's documents, the program documents will govern.

MPSC Case No: U-21534

Requester: Staff

Question No.: TMS-2.1a

Respondent: M. Cooper

Page: 1 of 1

Question: Is there any Restricted Stock included in the Revenue Requirement for the current case?

a. If so, please provide the amount included

Answer: Yes. The amount of Restricted Stock expense for the projected test year is \$8.960 million.

Attachment: None

Michigan Public Service Commission
Projected Operation and Maintenance Expenses
Regulated Marketing
(\$000)

Case No.: U-21534
Exhibit: S-7.4
Witness: Theresa McMillan-Sepkoski
Page: 1 of 1

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
							Projected Adjustments				
			1/1/22 - 12/31/22 Historical Test Period	Rate Case Adjustments	Adjusted Historical Test Period	Adjusted Historical 1/23-12/23	1/1/24 - 12/31/24 Inflation 3/	1/1/25 - 12/31/25 Inflation 3/	Other Adjustments 4/	Total Projected Adjustments	Projected Test Period
Line No.	Description	Account									
1	Customer Service and Informational Expenses				sum (c) thru (d)					sum (f) thru (i)	(e) + (j)
2	Operation										
3	Supervision	907	713	-	713	678	20	20	-	40	718
4	Customer Assistance Expenses	908	6,927	-	6,927	6,715	195	200	-	395	7,110
5	Total Customer Service (Major Account Services)		7,640	-	7,640	7,393	214	221	-	435	7,828
6	Sales Expenses										
7	Operation										
8	Supervision	911	1,891	-	1,891	1,825	53	54	-	107	1,932
9	Demonstrating and Selling Expenses-DR	912	2,701	-	2,701	2,395	69	71	2,961	3,102	5,497
10	Demonstrating and Selling Expenses-Other	912	8,178	-	8,178	8,178	237	244	3,252	3,733	11,911
11	Miscellaneous Sales-Charging Forward Amort	912	126	-	126	1,181	-	-	3,512	3,512	4,693
12	Advertising Expenses	913	-	-	-	-	-	-	-	-	-
13	Miscellaneous Sales-Other	916	-	-	-	-	-	-	-	-	-
14	Total Sales Expenses		12,897	-	12,897	13,579	360	370	9,725	10,455	24,034
15	Total Marketing Expense		20,536	-	20,536	20,972	574	591	9,725	10,890	31,862

	1/1/24 - 12/31/24	1/1/25 - 12/31/25	Co Exh.	32,154
3/ Annual Inflation Rate	2.90%	2.90%		(292)
No. of Months in Period	12	12		
Pro-rated Inflation Rate	2.90%	2.90%		

4/ Projection Adjustments:	Account	Amount
Smart Savers (sponsored by Witness Farrell)	912	1,724
SmartCurrents (sponsored by Witness Farrell)	912	(496)
SmartCharge (sponsored by Witness Farrell)	912	767
Pilots and other projects (sponsored by Witness Farrell)	912	966
Subtotal Demand Response		2,961
Charging Forward Expansion (Sponsored by Witness Bennett Exh. A-12 B5.9)	912	3,252
Charging Forward Reg Asset Amort (sponsored by Witness Uzenski Exh. A-13 C5.9.1)	912	3,512
		9,725

Case No.: U-21534
Exhibit: S-7.5
Witness: Theresa McMillan-Sepkoski
Page: 1 of 1

Months in Test Period	-	12

Michigan Public Service Commission
DTE Electric Company
Projected Revenue Deficiency (Sufficiency)
Projected 12 Month Period Ending December 31, 2025
(\$000)

Case No.: U-21534
 Exhibit: S-1
 Schedule: A1
 Witness: RFNichols

Line No.	(a) Description	(b) Source	(c) Applicant Projection	(d) Staff Adjustment	(e) Staff Projection
1	Rate Base	Exh. Exhibit, Sch. Schedule	\$ 22,107,989	\$ (140,976)	\$ 21,967,013
2	Adjusted Net Operating Income	Exh. A-13, Sch. C1	\$ 1,087,100	\$ 87,474	\$ 1,174,574
3	Overall Rate of Return	Line 2 ÷ Line 1	4.92%	0.43%	5.35%
4	Required Rate of Return	Exh. A-14, Sch. D1	5.92%	-0.26%	5.66%
5	Income Requirements	Line 1 x Line 4	\$ 1,309,478	\$ (66,179)	\$ 1,243,299
6	Income Deficiency (Sufficiency)	Line 5 - Line 2	\$ 222,378	\$ (153,653)	\$ 68,725
7	Revenue Conversion Factor	Exh. A-13, Sch. C2	<u>1.3496</u>	<u>-</u>	<u>1.3496</u>
8	Revenue Deficiency / (Sufficiency)	Line 6 x Line 7	\$ 300,129	\$ (207,376)	\$ 92,753
9	Return On - Tree Trim Regulatory Asset	Exh. A-11, Sch. A1.1	18,786	(8,653)	10,133
10	Return On - Monroe Regulatory Asset	Exh. A-11, Sch. A1.2	<u>137,518</u>	<u>(572)</u>	<u>136,947</u>
11	Revenue Deficiency / (Sufficiency)-Total	Sum Lines 8, 9, 10	<u>\$ 456,434</u>	<u>\$ (216,600)</u>	<u>\$ 239,833</u>

Michigan Public Service Commission
DTE Electric Company
Monroe Regulatory Asset - Return On
Projected 12 Month Period Ending December 31, 2025
(\$000)

Case No.: U-21534
 Exhibit: S-1
 Schedule: A1.2
 Witness: RFNichols

	(a)	(b)	(c)
Line		Test Period	
No.	Description	Amount	Reference
1	<u>Return on Monroe Regulatory Asset</u>		
2	Monroe Regulatory Asset - Average Balance	2,093,063	Exhibit A-12, Schedule B4.4, Line 8
3	Pre-tax Weighted Average Cost of Capital 1/	<u>6.54%</u>	Exhibit S-4, Schedule D1
4	Return on Monroe Regulatory Asset	<u>136,947</u>	

1/ Pretax WACC as proposed in this case was recalculated using 9% ROE in accordance with U-21193 order dated July 26, 2023

Michigan Public Service Commission
DTE Electric Company
Projected Net Operating Income
Projected 12 Month Period Ending Dec. 31, 2025
(\$000)

Case No.: U-21534
 Exhibit: S-3
 Schedule: C1
 Witness: RFNichols

	(a)	(b)	(c)	(d)	(e)
Line No.	Description	Source	Applicant Projection	Staff Adjustment	Staff Projection
1	Operating Revenues	Exh. A-13, Sch. C3	5,465,416	3,235	5,468,651
2	<u>Operating Expenses</u>				
3	Fuel and Purchased Power	Exh. A-13, Sch. C4	1,354,105	-	1,354,105
4	Operations and Maintenance Expenses	Exh. A-13, Sch. C5	1,266,950	(105,429)	1,161,522
5	Depreciation and Amortization	Exh. A-13, Sch. C6	1,266,245	(12,270)	1,253,974
6	Property Taxes	Exh. A-13, Sch. C7, C7.1	328,772	(117)	328,656
7	Other Taxes	Exh. A-13, Sch. C7	53,180	-	53,180
8	State & Local Income Taxes	Exh. A-13, Sch. C9, C10	61,413	8,049	69,462
9	Federal Income Taxes	Exh. A-13, Sch. C8	107,776	25,528	133,304
10	Other Utility (Income)/Deductions	Exh. A-13, Sch. C13	(6,400)	-	(6,400)
11	Total Operating Expenses		<u>4,432,041</u>	<u>(84,239)</u>	<u>4,347,803</u>
12	Operating Income		1,033,375	87,474	1,120,848
13	<u>Operating Income Adjustments</u>				
14	Allowance for Funds Used During Construction	Exh. A-13, Sch. C11	55,969	-	55,969
15	Loss on Reaquired Securities	Exh. A-13, Sch. C12	(2,244)	-	(2,244)
16	Total Operating Income Adjustments		<u>53,726</u>	<u>-</u>	<u>53,726</u>
17	Adjusted Net Operating Income		<u>1,087,100</u>	<u>87,474</u>	<u>1,174,574</u>

MICHIGAN PUBLIC SERVICE COMMISSION

DTE Electric Energy Company
Development of Projected Net Operating Income
for the Test Year Ended December 31, 2025
(\$000)

Case No.: U-21534
Exhibit: S-3
Schedule: C1.1
Witness: RFNichols
Page: 1 of 1

Revenue					Expenses										NOI			
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
Line No.	Description (Witness)	Sales Revenue	Base Fuel & Purchase Power Rev.	Other Revenue and R2 Rider	Total	Fuel and Purchased Power	Other O&M Expense	Depreciation & Amort.	Property Taxes	Other Taxes	State & Local Income Taxes	FIT	Other Utility (Income) / Deductions	Total	NOI	AFUDC	Loss on Reacquired Securities	Adjusted NOI
1	Company Filed																	
	Operating Income (Initial Filing)	3,995,976	1,354,105	115,336	5,465,416	1,354,105	1,266,950	1,266,245	328,772	53,180	61,413	107,776	(6,400)	4,432,041	1,033,375	55,969	(2,244)	1,087,100
2	Staff Adjustments																	
3	Revenue																	
4	RIA	2,740			2,740						170	540		710	2,030			2,030
5	Senior Credit	495			495						31	97		128	367			367
6					-						-	-		-	-			-
7	Steam Power Generation (Kindschy)				-		(19,392)				1,204	3,820		(14,369)	14,369			14,369
8					-						-	-		-	-			-
9	Fuel Supply & MERC Fuel Handling (Kindschy)				-		(463)				29	91		(343)	343			343
10					-						-	-		-	-			-
11	Nuclear Power Generation (Kindschy)				-		(371)				23	73		(275)	275			275
12					-						-	-		-	-			-
13	Other Power Generation (Kindschy)				-		(3,009)				187	593		(2,229)	2,229			2,229
14					-						-	-		-	-			-
15	Customer Service				-						-	-		-	-			-
16	Merchant Fees (McMillan-Sepkoski)				-		(1,236)				77	243		(916)	916			916
17					-						-	-		-	-			-
18	Uncollectible Accounts Expense (Rueckert)				-		(9,841)				611	1,938		(7,292)	7,292			7,292
19					-						-	-		-	-			-
20	Regulated Marketing (McMillan-Sepkoski)				-		(292)				18	58		(216)	216			216
21					-						-	-		-	-			-
22	Corporate Support				-						-	-		-	-			-
23	Injuries & Damages (Rueckert)				-		(2,863)				178	564		(2,121)	2,121			2,121
24	Incentive Compensation (McMillan-Sepkoski)				-		(39,233)				2,436	7,727		(29,069)	29,069			29,069
25	Restricted Stock (McMillan-Sepkoski)				-		(8,960)				556	1,765		(6,639)	6,639			6,639
26	Projects with Level 2 Cost Estimates (Rogers)				-		(2,386)				148	470		(1,768)	1,768			1,768
27	Projects with Level 3 Cost Estimates (Rogers)				-		(84)				5	17		(62)	62			62
28	Cost to Achieve Projected Expense (Rogers)				-		(3,174)				197	625		(2,352)	2,352			2,352
29					-						-	-		-	-			-
30	Pension & Benefits				-						-	-		-	-			-
31	Employee Savings Plan (Rueckert)				-		(7,859)				488	1,548		(5,823)	5,823			5,823
32	Active Healthcare (Rueckert)				-		(2,334)				145	460		(1,729)	1,729			1,729
33	Other Benefits - General Benefits (Rueckert)				-		(1,344)				83	265		(996)	996			996
34	Other Benefits - Admin Fees (Rueckert)				-		(2,588)				161	510		(1,918)	1,918			1,918
35					-						-	-		-	-			-
36					-						-	-		-	-			-
37					-						-	-		-	-			-
38					-						-	-		-	-			-
39					-						-	-		-	-			-
40					-						-	-		-	-			-
41					-						-	-		-	-			-
42					-						-	-		-	-			-
43	Impact of Cap Ex Adj on Prop. Tax & Depr. (Hecht)				-			(12,270)	(117)		769	2,440		(9,178)	9,178			9,178
44					-						-	-		-	-			-
45	Impact of Cap Ex Adj on Depreciation (Hecht)				-						-	-		-	-			-
46	Proforma Interest (Nichols)				-						531	1,685		2,216	(2,216)			(2,216)
47	Interest Synchronization (Nichols)	-	-	-	-	-	-	-	-	-	1	2	-	2	(2)	-	-	(2)
48	Total Adjustments	3,235	-	-	3,235	-	(105,429)	(12,270)	(117)	-	8,049	25,528	-	(84,239)	87,474	-	-	87,474
49	Staff NOI - Test Year	3,999,211	1,354,105	115,336	5,468,651	1,354,105	1,161,522	1,253,974	328,656	53,180	69,462	133,304	(6,400)	4,347,803	1,120,848	55,969	(2,244)	1,174,574

Michigan Public Service Commission
DTE Electric Company
Projected Tax Effect of Interest Allowed in Ratemaking Formula
Projected 12 Month Period Ending Dec. 31, 2025
(\$000)

Case No.: U-21534
 Exhibit: S-3
 Schedule: C14
 Witness: RFNichols

Line No.	(a) Description	(b) Projection	(c) Source
1	Rate Base	\$ 21,967,013	Exh.A-12, Sch. B1
2	Weighted Cost of Debt (1)	<u>1.77%</u>	Exh.A-14, Sch. D1
3	Interest Allowed in Ratemaking Formula	\$ 387,887	Line 1 x Line 2
4	Applicant Projection	<u>\$ 396,440</u>	WP-KMV-3
5	Increase / (Decrease) in Interest Deduction	\$ (8,553)	Line 3 - Line 4
6	Composite State and Municipal Income Tax Rate	6.21%	Exh. A-13, Sch. C2
7	Effect on State and Municipal Income Tax Expense	<u>\$ 531</u>	(Line 5 x Line 6) x -1
8	Effect on Federal Taxable Income	\$ (8,022)	(Line 5 + Line 7) x -1
9	Federal Income Tax Rate	<u>21.00%</u>	Exh. A-13, Sch. C2
10	Effect on Federal Income Tax Expense	<u>\$ 1,685</u>	Line 8 x Line 9
11	Total Tax Effect on Net Operating Income	<u><u>\$ (2,216)</u></u>	(Line 7 + Line 10) x -1

(1) Includes Short and Long-Term Interest

Michigan Public Service Commission
DTE Electric Company
Projected Tax Effect of Interest Synchronization Adjustment
Projected 12 Month Period Ending Dec. 31, 2025
(\$000)

Case No.: U-21534
 Exhibit: S-3
 Schedule: C15
 Witness: RFNichols

Line No.	(a) Description	(b)	
		Projection	Source
1	Rate Base	21,967,013	Exh. Exhibit S-2, Sch. Schedule B-
2	Weight of JDITC Reserve - Debt	0.07%	Exh. S-4, Sch. D-1
3	Cost of Long-Term Debt	<u>4.21%</u>	Exh. S-4, Sch. D-1
4	Imputed Interest	659	L1 x L2 x L3
5	Applicant Projection	<u>667</u>	Exh. A-12, Sch. C15
6	Interest Deduction Change	(8)	Line 4 - Line 5
7	Composite State and Municipal Income Tax Rate	6.21%	A-13, Sch. C2
8	Effect on State and Municipal Income Tax Expense	1	(Line 5 x Line 6) x -1
9	Imputed Effect on Federal Taxable Income	(8)	(Line 5 + Line 7) x -1
10	Federal Income Tax Rate	21.00%	Exh. S-3, Sch. C2
11	Imputed Effect on Fed. Income Tax Expense	<u>2</u>	Line 8 x Line 9
12	Synchronization Tax Adjustment to NOI	<u>(2)</u>	(Line 7 + Line 10) x -1

Production by Class					
Cost of Service Study					
PRODUCTION COSTS					
	(a)	(b)	(c)	(d)	(e)
	Total Electric	Total Residential	Total Commercial Secondary	Total Primary	E-1 St Lgt D9 OPL E-2 Signals
1 Rate Base	8,730,429	4,204,740	2,226,037	2,278,799	20,854
<u>Revenues:</u>					
2 Revenue From Electric Sales	3,064,187	1,357,891	779,751	915,758	10,787
3 D13 Present Revenue	10,496	4,725	2,713	3,020	38
4 Misc Revenue	34,520	26,514	4,913	3,041	51
5 Total Adjusted Revenues	3,109,203	1,389,131	787,377	921,819	10,876
<u>Expenses:</u>					
6 Fuel	914,888	392,003	233,702	284,815	4,367
7 Purchased Power	439,217	172,536	102,537	162,372	1,771
8 O & M Expense	516,190	228,542	132,479	153,089	2,079
9 Depreciation	510,279	249,163	129,906	130,136	1,074
10 Other (Reg Assets, etc)	-	-	-	-	-
11 Remove Reg Assets	-	-	-	-	-
12 Accretion of Loss/ Gain on Sale	-	-	-	-	-
13 Other Taxes	121,838	58,241	31,085	32,203	308
14 Income Taxes	97,836	46,538	25,421	25,672	206
15 Amortizations	-	-	-	-	-
16 Total Expenses	2,600,247	1,147,025	655,131	788,286	9,806
17 Net Oper Income	508,955	242,106	132,246	133,533	1,070
18 AFUDC & Other	56,695	27,706	14,432	14,438	118
19 Net Adjustments	860	414	219	224	2
20 Adj Net Oper Income	566,510	270,226	146,898	148,196	1,191
21 Rate of Return	6.49%	6.43%	6.60%	6.50%	5.71%
22 Return @ 5.6598443144768 %	494,129	237,982	125,990	128,976	1,180
23 Income Deficiency	(72,382)	(32,244)	(20,907)	(19,220)	(10)
24 Base Revenue Def / (Sufficiency)	(97,689)	(43,518)	(28,217)	(25,940)	(14)
25 Tree Trim Surge Rev Req (Dist Only)	-	-	-	-	-
26 Monroe Reg Asset Rev Req (Prod Only)	136,947	66,936	34,861	34,865	286
27 Base Revenue Def/ (Sufficiency) w Tree Trim Surge & Monroe	39,258	23,418	6,643	8,925	271
28 Less: D13 Incremental Revenues	(278)	(125)	(72)	(80)	(1)
29 R10 Tax Gross-Up Adjustment (Prod Only)	(0)	3	2	(5)	0
30 Total Revenue Def/ (Sufficiency)	39,536	23,546	6,717	9,000	272
31 Total Base Revenue Requirement	3,103,722	1,381,437	786,467	924,758	11,059

Production by Class								
Cost of Service Study								
PRODUCTION COSTS								
	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
	D-1.11/Other Residential Service	D-1.2 Time Of Use	D-2 Residential Space Ht	Total Residential	D-3/Other General Service	D-3.2 Secondary Schools	D-4 Lg Genl Service	Total Commercial Secondary
1 Rate Base	4,113,569	39,355	51,816	4,204,740	1,788,569	73,575	363,892	2,226,037
Revenues:								
2 Revenue From Electric Sales	1,323,961	14,282	19,648	1,357,891	621,948	26,144	131,658	779,751
3 D13 Present Revenue	4,607	50	68	4,725	2,164	91	458	2,713
4 Misc Revenue	25,939	192	384	26,514	4,261	110	542	4,913
5 Total Adjusted Revenues	1,354,507	14,524	20,100	1,389,131	628,373	26,345	132,659	787,377
Expenses:								
6 Fuel	380,714	4,554	6,736	392,003	185,714	7,864	40,125	233,702
7 Purchased Power	167,825	1,968	2,743	172,536	81,432	3,443	17,663	102,537
8 O & M Expense	222,582	2,503	3,458	228,542	105,466	4,434	22,579	132,479
9 Depreciation	243,937	2,270	2,956	249,163	104,540	4,283	21,083	129,906
10 Other (Reg Assets, etc)	-	-	-	-	-	-	-	-
11 Remove Reg Assets	-	-	-	-	-	-	-	-
12 Accretion of Loss/ Gain on Sale	-	-	-	-	-	-	-	-
13 Other Taxes	56,959	553	730	58,241	24,955	1,029	5,102	31,085
14 Income Taxes	45,546	431	561	46,538	20,358	853	4,209	25,421
15 Amortizations	-	-	-	-	-	-	-	-
16 Total Expenses	1,117,561	12,280	17,184	1,147,025	522,465	21,906	110,761	655,131
17 Net Oper Income	236,945	2,244	2,916	242,106	105,908	4,439	21,898	132,246
18 AFUDC & Other	27,126	252	328	27,706	11,615	476	2,341	14,432
19 Net Adjustments	405	4	5	414	176	7	36	219
20 Adj Net Oper Income	264,476	2,500	3,249	270,226	117,700	4,922	24,275	146,898
21 Rate of Return	6.43%	6.35%	6.27%	6.43%	6.58%	6.69%	6.67%	6.60%
22 Return @ 5.6598443144768 %	232,822	2,227	2,933	237,982	101,230	4,164	20,596	125,990
23 Income Deficiency	(31,654)	(273)	(317)	(32,244)	(16,470)	(758)	(3,680)	(20,907)
24 Base Revenue Def / (Sufficiency)	(42,722)	(368)	(428)	(43,518)	(22,228)	(1,023)	(4,966)	(28,217)
25 Tree Trim Surge Rev Req (Dist Only)	-	-	-	-	-	-	-	-
26 Monroe Reg Asset Rev Req (Prod Only)	65,535	609	792	66,936	28,057	1,149	5,655	34,861
27 Base Revenue Def/ (Sufficiency) w Tree Trim Surge	22,813	241	365	23,418	5,829	126	688	6,643
28 Less: D13 Incremental Revenues	(122)	(1)	(2)	(125)	(57)	(2)	(12)	(72)
29 R10 Tax Gross-Up Adjustment (Prod Only)	3	0	0	3	1	0	0	2
30 Total Revenue Def/ (Sufficiency)	22,938	242	366	23,546	5,888	128	701	6,717
31 Total Base Revenue Requirement	1,346,899	14,524	20,014	1,381,437	627,836	26,272	132,359	786,467

Production by Class						
Cost of Service Study						
PRODUCTION COSTS						
	(n)	(o)	(p)	(q)	(r)	(s)
	D-11/Other Primary	D-6.2 Primary Schools	D-8 Interrupt Supply	R-1.1/R-1.2 Metal Melt Process Heat	R-10 Interrupt Supply	Total Primary
1 Rate Base	2,000,560	155,817	67,081	55,341	0	2,278,799
Revenues:						
2 Revenue From Electric Sales	761,701	50,619	29,445	26,252	47,740	915,758
3 D13 Present Revenue	2,650	176	102	91	-	3,020
4 Misc Revenue	2,667	177	105	93	-	3,041
5 Total Adjusted Revenues	767,018	50,972	29,652	26,436	47,740	921,819
Expenses:						
6 Fuel	240,867	15,775	10,574	9,924	7,674	284,815
7 Purchased Power	106,946	7,078	4,340	3,923	40,085	162,372
8 O & M Expense	133,914	9,170	5,286	4,719	(0)	153,089
9 Depreciation	114,333	9,142	3,688	2,974	-	130,136
10 Other (Reg Assets, etc)	-	-	-	-	-	-
11 Remove Reg Assets	-	-	-	-	-	-
12 Accretion of Loss/ Gain on Sale	-	-	-	-	-	-
13 Other Taxes	28,266	2,174	963	801	-	32,203
14 Income Taxes	23,006	1,231	774	660	-	25,672
15 Amortizations	-	-	-	-	-	-
16 Total Expenses	647,332	44,570	25,625	23,000	47,759	788,286
17 Net Oper Income	119,686	6,402	4,028	3,436	(19)	133,533
18 AFUDC & Other	12,686	1,016	408	329	-	14,438
19 Net Adjustments	197	15	7	5	-	224
20 Adj Net Oper Income	132,568	7,433	4,443	3,770	(19)	148,196
21 Rate of Return	6.63%	4.77%	6.62%	6.81%	-25231422.61%	6.50%
22 Return @ 5.6598443144768 %	113,229	8,819	3,797	3,132	0	128,976
23 Income Deficiency	(19,340)	1,386	(646)	(638)	19	(19,220)
24 Base Revenue Def / (Sufficiency)	(26,102)	1,870	(872)	(861)	25	(25,940)
25 Tree Trim Surge Rev Req (Dist Only)	-	-	-	-	-	-
26 Monroe Reg Asset Rev Req (Prod Only)	30,632	2,454	985	793	-	34,865
27 Base Revenue Def/ (Sufficiency) w Tree Trim Surge	4,531	4,324	113	(68)	25	8,925
28 Less: D13 Incremental Revenues	(70)	(5)	(3)	(2)	-	(80)
29 R10 Tax Gross-Up Adjustment (Prod Only)	2	0	0	0	(7)	(5)
30 Total Revenue Def/ (Sufficiency)	4,602	4,328	116	(65)	19	9,000
31 Total Base Revenue Requirement	766,303	54,948	29,561	26,187	47,759	924,758

Production by Class				
Cost of Service Study				
PRODUCTION COSTS				
	(t)	(u)	(v)	(w)
	D-9 OPL Residential	D-9 OPL Commercial	E-1 St Lght	E-2 Signals
1 Rate Base	434	1,967	8,863	9,590
Revenues:				
2 Revenue From Electric Sales	257	1,225	5,488	3,817
3 D13 Present Revenue	1	4	19	13
4 Misc Revenue	1	4	33	13
5 Total Adjusted Revenues	259	1,233	5,540	3,843
Expenses:				
6 Fuel	120	544	2,453	1,250
7 Purchased Power	47	212	956	557
8 O & M Expense	54	243	1,094	689
9 Depreciation	21	93	420	541
10 Other (Reg Assets, etc)	-	-	-	-
11 Remove Reg Assets	-	-	-	-
12 Accretion of Loss/ Gain on Sale	-	-	-	-
13 Other Taxes	7	30	135	137
14 Income Taxes	2	18	78	108
15 Amortizations	-	-	-	-
16 Total Expenses	250	1,140	5,135	3,281
17 Net Oper Income	9	94	405	563
18 AFUDC & Other	2	10	46	60
19 Net Adjustments	0	0	1	1
20 Adj Net Oper Income	11	104	452	624
21 Rate of Return	2.62%	5.29%	5.10%	6.50%
22 Return @ 5.6598443144768 %	25	111	502	543
23 Income Deficiency	13	7	50	(81)
24 Base Revenue Def / (Sufficiency)	18	10	67	(109)
25 Tree Trim Surge Rev Req (Dist Only)	-	-	-	-
26 Monroe Reg Asset Rev Req (Prod Only)	5	25	111	145
27 Base Revenue Def/ (Sufficiency) w Tree Trim Surge Req	23	34	178	36
28 Less: D13 Incremental Revenues	(0)	(0)	(1)	(0)
29 R10 Tax Gross-Up Adjustment (Prod Only)	0	0	0	0
30 Total Revenue Def/ (Sufficiency)	23	35	179	36
31 Total Base Revenue Requirement	281	1,259	5,667	3,853

Distribution by Voltage

Cost of Service Study
DISTRIBUTION COSTS

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	Total Electric	Residential Secondary	Commercial Secondary	Primary	Subtransmission	Transmission	D-9 OPL Residential	D-9 OPL Commercial	E-1 St Lght	E-2 Signals
1 Rate Base	13,236,583	8,074,096	3,645,521	1,012,084	83,351	111,493	12,629	32,430	255,458	9,521
<u>Revenues:</u>										
2 Revenue From Electric Sales	2,278,066	1,431,967	593,121	161,015	11,229	11,411	1,850	8,352	57,552	1,571
3 D13 Present Revenue	566	356	147	40	3	3	0	2	14	0
4 Misc Revenue	80,816	59,881	10,761	3,552	2,086	3,663	22	253	572	26
5 Total Adjusted Revenues	2,359,448	1,492,204	604,030	164,607	13,318	15,077	1,872	8,606	58,137	1,597
<u>Expenses:</u>										
6 Fuel	-	-	-	-	-	-	-	-	-	-
7 Purchased Power	-	-	-	-	-	-	-	-	-	-
8 O & M Expense	645,332	444,542	148,094	36,259	1,924	3,209	432	1,486	8,955	432
9 Depreciation	743,695	456,980	200,456	46,820	3,176	3,624	1,437	3,200	27,497	506
10 Other (Reg Assets, etc)	-	-	-	-	-	-	-	-	-	-
11 Remove Reg Assets	-	-	-	-	-	-	-	-	-	-
12 Accretion of Loss/ Gain on Sale	-	-	-	-	-	-	-	-	-	-
13 Other Taxes	259,998	160,088	69,330	19,021	1,560	2,070	345	826	6,579	179
14 Income Taxes	104,931	63,600	27,495	9,232	983	912	(50)	457	2,231	71
15 Amortizations	-	-	-	-	-	-	-	-	-	-
16 Total Expenses	1,753,956	1,125,208	445,375	111,332	7,643	9,815	2,164	5,969	45,262	1,187
17 Net Oper Income	605,493	366,996	158,655	53,274	5,674	5,262	(291)	2,637	12,876	410
18 AFUDC & Other	1,177	718	324	90	7	10	1	3	23	1
19 Net Adjustments	1,394	850	384	107	9	12	1	3	27	1
20 Adj Net Oper Income	608,064	368,564	159,363	53,471	5,690	5,283	(289)	2,644	12,925	412
21 Rate of Return	4.59%	4.56%	4.37%	5.28%	6.83%	4.74%	-2.29%	8.15%	5.06%	4.33%
22 Return @ 5.6598443144768 %	749,170	456,981	206,331	57,282	4,718	6,310	715	1,836	14,459	539
23 Income Deficiency	141,106	88,417	46,968	3,812	(973)	1,027	1,004	(808)	1,533	127
24 Base Revenue Def / (Sufficiency)	190,442	119,331	63,389	5,144	(1,313)	1,386	1,355	(1,091)	2,069	171
25 Tree Trim Surge Rev Req (Dist Only)	10,133	6,595	3,055	388	0	1	3	12	71	8
26 Monroe Reg Asset Rev Req (Prod Only)	-	-	-	-	-	-	-	-	-	-
27 Base Revenue Def/ (Sufficiency) w Tree Trim Surge & Monroe	200,575	125,927	66,444	5,532	(1,313)	1,387	1,358	(1,079)	2,140	179
28 Less: D13 Incremental Revenues	59	37	15	4	0	0	0	0	1	0
29 R10 Tax Gross-Up Adjustment (Prod Only)	-	-	-	-	-	-	-	-	-	-
30 Total Revenue Def/ (Sufficiency)	200,516	125,890	66,429	5,528	(1,313)	1,386	1,358	(1,079)	2,139	179
31 Total Base Revenue Requirement	2,478,583	1,557,856	659,550	166,542	9,916	12,797	3,208	7,272	59,691	1,750

DTE Electric Company
Staff's Customer Charges by Voltage Class
(thousands of dollars)

Case No. U-21534
Exhibit: S-6
Schedule: F1.4
Witness M. J. Pung
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	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	Account	Residential	Commercial Secondary	Primary	Sub-Trans	Transmission	Total
1	Dist Operation Exp:						
2	586 Meters	\$ 7,752	\$ 1,194	\$ 110	\$ 7	\$ 5	\$ 9,068
3	587 Customer Installs	394	61	6	0	0	460
4	Dist Maintenance Exp:						
5	597 Meters	-	-	-	-	-	-
6							
7	Customer Accounts						
8	901 Supervision	2,024	209	3	0	0	2,237
9	902 Meter Read	1,916	295	27	2	1	2,241
10	903 Customer Records	83,550	10,887	106	3	3	94,548
11	905 Miscellaneous	0	0	0	0	0	0
12							
13	Cust Serv & Inf						
14	907 Supervision	3,745	384	5	0	0	4,135
15	908 Customer Assist	14,784	1,518	21	1	0	16,324
16	909 Info & Instr	(3)	(0)	(0)	(0)	(0)	(3)
17	910 Miscellaneous	5,544	569	8	0	0	6,122
18							
19	Depreciation Expense						
20	369 Services Depreciation Expense	33,213	4,648	467	102	269	38,699
21	370 Meters Depreciation Expense	25,080	3,862	356	22	17	29,338
22							
23	Return on Meters and Services in Rate Base						
24	Plant						
25	369 Services	\$ 520,847	\$ 72,607	\$ 7,089	\$ 1,552	\$ 4,082	\$ 606,177
26	370 Meters	487,907	75,139	6,921	432	337	570,737
27	CWIP						
28	369 Services	(12,132)	(1,528)	(27)	(6)	(15)	(13,708)
29	370 Meters	5,640	869	80	5	4	6,597
30	Reserve						
31	369 Services	357,937	50,219	5,145	1,127	2,962	417,390
32	370 Meters	116,441	17,932	1,652	103	80	136,208
33							
34	Rate base	<u>\$ 527,884</u>	<u>\$ 78,936</u>	<u>\$ 7,267</u>	<u>\$ 754</u>	<u>\$ 1,364</u>	<u>\$ 616,205</u>
35							
36	Weighted average cost of capital (WACC)	5.66%	5.66%	5.66%	5.66%	5.66%	5.66%
37							
38	Return (Line 34 * Line 36)	\$ 29,877	\$ 4,468	\$ 411	\$ 43	\$ 77	\$ 34,876
39							
40	Property Tax						
41	Property Tax on meters and services	\$ 12,671	\$ 5,695	\$ 1,573	\$ 129	\$ 169	20,237
42							
43	Total Customer Related Cost	<u>\$ 220,548</u>	<u>\$ 33,789</u>	<u>\$ 3,093</u>	<u>\$ 309</u>	<u>\$ 543</u>	<u>\$ 258,282</u>
44							
45	Customers	2,074,827	212,968	2,909	93	70	2,290,867
46	Cost per Customer per Year	106.30	158.66	1,063.21	3,330.53	7,803.32	
47							
48	Cost per Customer per Month	<u>\$ 8.86</u>	<u>\$ 13.22</u>	<u>\$ 88.60</u>	<u>\$ 277.54</u>	<u>\$ 650.28</u>	

CAPACITY CHARGE					
Cost of Service Study					
75-0-25					
PRODUCTION COSTS					
	(a)	(b)	(c)	(d)	(e)
	Total	Total	Total	Total	E-1 St Lgt
	Electric	Residential	Commercial	Primary	D9 OPL
			Secondary		E-2 Signals
CAPACITY COSTS DETERMINATION					
1	Net Production Costs Rev. Req. (Exh A-16 Sch F1.1 Line 29)	\$	3,103,722		
2	Less Fuel (Exh A-16 Sch F1.1 Line 6)		(914,888)		
3	Less MERC Rev Req (Exh A-16, Sch F1.5 Page 6 Line 9)		(6,392)		
4	Less MISO Energy in PP (Exh A-13 Sch C4 Lines 21-22)		(40,376)		
5	Less Other Energy in PP (WP A16 F1 Sch 11.5 Line 14)		(260,787)		
6	Less Variable O&M (Exh A-16 Sch F1.5 Page 5 Line 8)		(30,392)		
7	Subtotal	\$	1,850,887		
8					
9	Proj 2025 Energy Sales Rev Net of Fuel (per A-26, Sch P3, Line 23)		(815,274)		
10					
11	Capacity Revenue Requirement (Line 6 + Line 7)	\$	1,035,613		
12					
	SRM Capacity Charge Demand (DTE 2022 10-k, pg 9 / net gen capacity				
13	11,717 MW + long-term contracts 560 MW)		12,277 MW		
14					
15	SRM Capacity Charge per MW-Year (Line 11 / Line 13 x 1,000)		84,354		
16					
17	SRM Capacity Charge per MW-Day (Line 15 / 365)		231.11		
18					
19	Allocator				
20	Sch 200B 4 CP Excl R10 (alloc. 251)	100.0000	51.7411	25.3267	22.8438
21					0.0884
22	Revenue Requirement				
23	Capacity Revenue Requirement (Line 8 * Line 9/100)	\$	1,035,613	\$	535,838
24	Non-Capacity Revenue Requirement (Line 12 less Line 10)		2,068,109		845,600
25	Total Production Revenue Requirement (Exh A-16 Sch F1.1 L 27)	\$	3,103,722	\$	1,381,437
				\$	262,287
				\$	236,574
				\$	915
					10,144
					11,059

DTE Electric Company
Capacity Charge Revenue Requirement by Customer Class /
Staff's SRM Capacity Charge
(thousands of dollars)

Case No. U-21534
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Schedule: F1.5
Witness: M. J. Pung
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CAPACITY CHARGE							
Cost of Service Study							
75-0-25							
PRODUCTION COSTS							
(f)	(g)	(i)	(j)	(g)	(h)	(i)	(j)
D-1.11/Other	D-1.2	D-2		D-3/Other	D-3.2	D-4	Total
Residential	Time Of	Residential	Total	General	Secondary	Lg Genl	Commercial
Service	Use	Space Ht	Residential	Service	Schools	Service	Secondary

Allocator

20	Sch 200B 4 CP Excl R10 (alloc. 251)	50.7990	0.4196	0.5225	51.7411	20.5234	0.8270	3.9763	25.3267

Revenue Requirement

23	Capacity Rev Req (P1 Line 7 * Line 8/100)	\$ 526,081	\$ 4,345	\$ 5,411	\$ 535,838	\$ 212,543	\$ 8,564	\$ 41,180	\$ 262,287
24	Non-Capacity Revenue Requirement (Line 12 less Line 10)	<u>820,817</u>	<u>10,179</u>	<u>14,603</u>	<u>845,600</u>	<u>415,293</u>	<u>17,708</u>	<u>91,180</u>	<u>524,181</u>
25	Total Production Revenue Requirement (Exh A-16 Sch F1.1 L 27)	\$ 1,346,899	\$ 14,524	\$ 20,014	\$ 1,381,437	\$ 627,836	\$ 26,272	\$ 132,359	\$ 786,467

CAPACITY CHARGE					
Cost of Service Study					
75-0-25					
PRODUCTION COSTS					
(k)	(l)	(m)	(n)	(o)	(p)
D-11/Other Primary	D-6.2 Primary Schools	D-8 Interrupt Supply	R-1.1/R-1.2 Metal Melt Process Heat	R-10 Interrupt Supply	Total Primary

Allocator							
20	Sch 200B 4 CP Excl R10 (alloc. 251)	20.1388	1.8002	0.5316	0.3733	-	22.8438

Revenue Requirement							
23	Capacity Rev Req (P1 Line 7 * Line 8/100)	\$ 208,560	\$ 18,643	\$ 5,505	\$ 3,866	\$ -	\$ 236,574
24	Non-Capacity Revenue Requirement (Line 12 less Line 10)	557,744	36,304	24,056	22,321	47,759	688,184
25	Total Production Revenue Requirement (Exh A-16 Sch F1.1 L 27)	\$ 766,303	\$ 54,948	\$ 29,561	\$ 26,187	\$ 47,759	\$ 924,758

DTE Electric Company
Capacity Charge Revenue Requirement by Customer Class /
Staff's SRM Capacity Charge
(thousands of dollars)

Case No. U-21534
Exhibit: S-6
Schedule: F1.5
Witness: M. J. Pung
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CAPACITY CHARGE			
<u>Cost of Service Study</u>			
75-0-25			
PRODUCTION COSTS			
(q)	(r)	(s)	(t)
D-9 OPL Residential	D-9 OPL Commercial	E-1 St Lght	E-2 Signals

Allocator

20	Sch 200B 4 CP Excl R10 (alloc. 251)	-	-	-	0.0884

Revenue Requirement

23	Capacity Rev Req (P1 Line 7 * Line 8/100)	\$ -	\$ -	\$ -	\$ 915
24	Non-Capacity Revenue Requirement (Line 12 less Line 10)	<u>281</u>	<u>1,259</u>	<u>5,667</u>	<u>2,938</u>
25	Total Production Revenue Requirement (Exh A-16 Sch F1.1 L 27)	\$ 281	\$ 1,259	\$ 5,667	\$ 3,853

		(a)	(b)	(c)
		Total O&M	Labor O&M	Variable O&M (a)-(b)
POWER PRODUCTION EXPENSES				
1	501 Fuel Handling 1/	\$ 25,008	\$ -	\$ 25,008
2	502 Steam Expenses 2/	13,902	15,792	\$ -
3	505 Electric Expenses 2/	1,988	3,238	\$ -
4	519 Coolants and Water	2,553	2,251	\$ 302
5	520 Steam Expenses	(11,268)	4,299	\$ -
6	538 Electric Expense	1,116	-	\$ 1,116
7	548 Peaker Expense	<u>3,984</u>	<u>17</u>	<u>3,967</u>
8	TOTAL	\$ 37,284	\$ 25,597	\$ 30,392

1/ Labor O&M deduction in 501 Fuel Handling eliminated per U-20836 Order
2/ Normalized to eliminate negative variable O&M

			(a)
		Source	Amount
MERC			
1	Gross Plant in Service	WP A16 F1 Sch 5	\$ 101,217
2	Less: Accumulated Depreciation	WP A16 F1 Sch 6	(77,899)
3	CWIP	WP A16 F1 Sch 8	<u>156</u>
4	Net Plant	Sum Lines 1 - 3	23,474
5	Weighted Average Cost of Capital	Exh A-14 Sch D1	5.66%
6	Return	Line 4 x Line 5	\$ 1,329
7	Depreciation Expense	WP A16 F1 Sch 7	4,089
8	Property Tax	WP A16 F1 Sch 17	<u>975</u>
9	MERC Revenue Requirement	Sum Lines 6 - 8	<u>\$ 6,392</u>

Michigan Public Service Commission
DTE Electric Company
Staff's Projected 2025 Capacity-Related Generation Cost & Energy Sales Revenue Net of Fuel Cost
(in \$000's)

Case No.: U-21534
Exhibit: S-6
Schedule: P3
Witness: M. J. Pung
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Line No.	(a) Description	(b)
1	Capacity-Related Generation Cost	
2	PURPA/PA2 Contracts	\$ 8,892
3	PA295/342 Renewable - Company Owned	\$ 95,126
4	PA295/342 Renewable - PPA Wind	\$ 30,503
5	PA295/342 Renewable - PPA LFG/Biomass	\$ 4,840
6	Capacity Purchases	\$ (1,308)
7	Total 2025 Projected Capacity-Related Generation Costs in PSCR	\$ 138,054
8		
9		
10	Energy Sales Revenue	
11	Projected 2025 Energy Market Sales	\$ 2,180,036
12	Projected 2025 Off-System Energy Sales	\$ -
13	Projected 2025 Unit Specific Bilateral Energy Sales	\$ -
14	Projected 2025 Regulation, Spinning, and Supplemental Ancillary Services Sales	\$ 4,343
15	Projected 2025 Schedule 2 Reactive Ancillary Services Revenue	\$ -
16	Total Projected 2025 Energy Sales Revenue	\$ 2,184,379
17		
18		
19	Fuel Cost	
20	Fuel	\$ 1,201,032
21	Total Projected 2025 Fuel Generation Expense	\$ 1,201,032
22		
23	Projected 2025 Energy Sales Revenue Net of Fuel Costs	\$ 983,347
24	2023 Reconciliation of Net Sales Benefit Difference	\$ (168,073)
25	Projected 2025 Energy Sales Revenue Net of Fuel Related Costs including 2023 Reconciliation	\$ 815,274

Michigan Public Service Commission
DTE Electric Company
Staff's 2023 Energy Sales Revenue Net of Fuel Cost
(in \$000's)

Case No.: U-21534
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Schedule: P4
Witness: M.J. Pung
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	(a)	(b)	(c)	(d)
Line No.	Description			
	Energy Sales Revenue	Order U-20836	2023 Actual	Variance
1	Energy Market Sales	\$ 1,680,882	\$ 1,184,410	\$ (496,473)
2	Off-System Energy Sales	\$ -	\$ -	\$ -
3	Unit Specific Bilateral Energy Sales	\$ -	\$ -	\$ -
4	Regulation, Spinning, and Supplemental Ancillary Services Sales	\$ 915	\$ 3,282	\$ 2,367
5	Schedule 2 Reactive Ancillary Services Revenue	\$ 10,776	\$ 704	\$ (10,072)
6	Total Energy Sales Revenue	\$ 1,692,573	\$ 1,188,395	\$ (504,178)
7				
8				
9	Fuel Related Generation Cost			
10	Total Fuel & Fuel-Related Generation Expense	\$ 1,004,837	\$ 1,020,096	\$ 15,260
11	2020 Reconciliation of Net Sales Benefit Difference	\$ (351,365)		
12	Energy Sales Revenue Net of Fuel Related Costs	\$ 336,372	\$ 168,299	\$ (168,073)

Michigan Public Service Commission
DTE Electric Company
Infrastructure Recovery Mechanism
Staff's Incremental Revenue Requirement - Distribution Operations
(\$000)

Case No.: U-21534
Exhibit: S-6
Schedule: X4
Witness: M. J. Pung
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	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Line No.	Description	Source	13 mos. ending 12/31/2024	12 mos. ending 12/31/2025	12 mos. ending 12/31/2026	12 mos. ending 12/31/2027	Total
			(1) (prev. approved)	(1) (prev. approved)	(proposed)	(proposed)	
1	PLANT IN SERVICE						
2							
3	Conversions	Exh A-33, Sch X1, Line 10	\$ 1,206	\$ 139,761	\$ 188,953	\$ 227,500	\$ 557,420
4	Subtransmission Redesign & Rebuild	Exh A-33, Sch X1, Line 11	4,159	41,750	54,705	62,500	163,114
5	Breaker Replacement Program	Exh A-33, Sch X1, Line 12	13,680	12,628	15,000	15,000	56,309
6	URD Replacement Program	Exh A-33, Sch X1, Line 13	14,625	13,500	15,000	20,000	63,125
7	Distribution Automation (2)	Exh A-33, Sch X1, Line 14	26,406	24,375	105,000	180,000	335,781
8	Pole and Pole Top Maintenance & Modernization	Exh A-33, Sch X1, Line 15	-	-	150,000	200,000	350,000
9	Total Plant In Service		\$ 60,077	\$ 232,015	\$ 528,658	\$ 705,000	\$ 1,525,749
10							
11	Net Rate Base						
12	Cumulative Plant In Service	Prior Yr plus L9	\$ 60,077	\$ 292,092	\$ 820,749	\$ 1,525,749	
13	Accumulated Depreciation	Prior Yr less L20	(1,227)	(8,417)	(31,140)	(79,052)	
14	Accum. Deferred Taxes	P2, L7	(266)	(1,781)	(6,409)	(15,708)	
15	Ending Net Rate Base	Sum of L12 thru L14	\$ 58,584	\$ 281,893	\$ 783,201	\$ 1,430,989	
16	Average Net Rate Base	L15 (PY+CY)/2	29,292	170,239	532,547	1,107,095	
17							
18	Total Cost of Service						
19	Return on Net Rate Base	L16 * Pre-tax rate of return (3)	2,551	14,825	46,812	97,315	161,503
20	Depreciation (1/2 yr conv.)	(4)	1,227	7,191	22,723	47,912	79,052
21	Property Taxes	P2, L30 + P2, L47	-	1,684	8,871	22,623	33,178
22	Total Cost of Service (COS) Requirement	L19 thru L21	\$ 3,778	\$ 23,700	\$ 78,405	\$ 167,851	\$ 273,733

(1) 2024 and 2025 revenue requirement calculations utilize the same plant in service amounts, rate of return, depreciation rates, and property tax millage rates as those approved in the IRM for DTE Electric Rate Case No. U-21297

(2) Previously known as 4.8 kV Circuit Automation

(3) Staff's Pre-tax rate of return for 2026
From Staff Exhibit S-4, Schedule D1

	Staff's Weighted Cost	Pre-tax Multiplier	Staff's Pre-tax Rate of Return	
Long-Term Debt	2.11%	1.00000	2.11%	
Common Equity	4.95%	1.34964	6.68%	
Total	7.06%		8.79%	Staff's Projected

(4) 2026 depreciation rate for Distribution Plant is 4.11% per Witness Uzenski Exhibit A-13, Schedule C6. Page 2, Line 9

Michigan Public Service Commission
DTE Electric Company
Infrastructure Recovery Mechanism
Staff's Incremental Revenue Requirement - Distribution Operations
(\$000)

Case No.: U-21534
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Line No.	(a) Description	(b) Source	(c) 13 mos. ending 12/31/2024 (1) (prev. approved)	(d) 12 mos. ending 12/31/2025 (1) (prev. approved)	(e) 12 mos. ending 12/31/2026 (extension)	(f) 12 mos. ending 12/31/2027 (extension)
1	Deferred Tax Expense					
2	Tax Depreciation	Line 17	2,253	13,037	40,585	83,804
3	Book Depreciation	P1, L20	1,227	7,191	22,723	47,912
4	Timing Difference	Line 2 - Line 3	1,026	5,846	17,862	35,892
5	Deferred Tax Expense	Line 4 X 25.91%	\$ 266	\$ 1,515	\$ 4,628	\$ 9,300
6						
7	Accum. Deferred Tax Expense	Prior Yr plus L5	\$ 266	\$ 1,781	\$ 6,409	\$ 15,708
8						
9	Tax Depreciation		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
10	MACRS Tax Depr Rate (20 Year)		3.750%	7.219%	6.677%	6.177%
11						
12	Year 1 Additions	P1, L9 x P2, L10	2,253	4,337	4,011	3,711
13	Year 2 Additions	P1, L9 x P2, L10		8,701	16,749	15,492
14	Year 3 Additions	P1, L9 x P2, L10			19,825	38,164
15	Year 4 Additions	P1, L9 x P2, L10				26,438
16	Year 5 Additions	P1, L9 x P2, L10	-	-	-	-
17	Total Tax Depreciation	Sum of L12 thru L16	\$ 2,253	\$ 13,037	\$ 40,585	\$ 83,804
18						
19	Property Tax - Plant In Service		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
20	Factor	WP-SLW-1	0.96	0.93	0.90	0.86
21						
22	Year 1 Taxable Value	P1, L9 x P2, L20 x 50%	28,837	27,936	27,034	25,833
23	Year 2 Taxable Value	P1, L9 x P2, L20 x 50%		111,367	107,887	104,407
24	Year 3 Taxable Value	P1, L9 x P2, L20 x 50%			253,756	245,826
25	Year 4 Taxable Value	P1, L9 x P2, L20 x 50%				338,400
26	Year 5 Taxable Value	P1, L9 x P2, L20 x 50%	-	-	-	-
27	Total Taxable Value	Sum of L22 thru L26	\$ 28,837	\$ 139,303	\$ 388,677	\$ 714,466
28	Millage	Exh. A-13, Sch C7.1 (5)	57.500	57.500	56.000	56.000
29	Property Tax Assessed	L27 x L28	\$ 1,658	\$ 8,010	\$ 21,766	\$ 40,010
30	Property Tax Expense (Year lag)			\$ 1,658	\$ 8,010	\$ 21,766
31						
32	Property Tax - CWIP		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
33	Cumulative Capital Investment	Prior Yr plus Exh A-33, Sch X1, L8	\$ 61,865	\$ 351,999	\$ 881,999	\$ 1,601,999
34	Cumulative Plant in Service	P1, L12	60,077	292,092	820,749	1,525,749
35	Cumulative CWIP	Line 33 - Line 34	1,788	59,908	61,250	76,250
36						
37	Factor	Exh. A-13, Sch C7.1	0.50	0.50	0.50	0.50
38						
39	Year 1 Taxable Value	P2, L35 x P2, L37 x 50%	447			
40	Year 2 Taxable Value	P2, L35 x P2, L37 x 50%		14,977		
41	Year 3 Taxable Value	P2, L35 x P2, L37 x 50%			15,313	
42	Year 4 Taxable Value	P2, L35 x P2, L37 x 50%				19,063
43	Year 5 Taxable Value	P2, L35 x P2, L37 x 50%	-	-	-	-
44	Total Taxable Value	Sum of L39 thru L43	\$ 447	\$ 14,977	\$ 15,313	\$ 19,063
45	Millage	Exh. A-13, Sch C7.1 (1)	57.500	57.500	56.000	56.000
46	Property Tax Assessed	L44 x L45	\$ 26	\$ 861	\$ 858	\$ 1,068
47	Property Tax Expense (Year lag)			\$ 26	\$ 861	\$ 858

(1) 2024 and 2025 revenue requirement calculations utilize the same plant in service amounts, rate of return, depreciation rates, and property tax millage rates as those approved in the IRM for DTE Electric Rate Case No. U-21297

Michigan Public Service Commission
DTE Electric Company
Infrastructure Recovery Mechanism
Staff's Incremental Revenue Requirement - Distribution Operations
Example of \$1.0 MM Under Investment
(\$000)

Case No.: U-21534
 Exhibit: S-6
 Schedule: X5
 Witness: M. J. Pung
 Page: 1 of 2

	(a)	(b)	(c)
Line No.	Description	Source	Year 1
1	<u>PLANT IN SERVICE</u>		
2	Capital Under Investment		\$ (1,000)
3	Total Plant In Service		\$ (1,000)
4			
5	<u>Net Rate Base</u>		
6	Cumulative Plant In Service	Prior Yr plus L3	\$ (1,000)
7	Accumulated Depreciation	Prior Yr less L14	21
8	Accum. Deferred Taxes	P2, L7	5
9	Ending Net Rate Base	Sum of L6 thru L8	\$ (975)
10	Average Net Rate Base	L9 (PY+CY)/2	(487)
11			
12	<u>Total Cost of Service</u>		
13	Return on Net Rate Base	(1)	(43)
14	Depreciation (1/2 yr conv.)	(2)	(21)
15	Property Taxes	(3)	-
16	Total Cost of Service (COS) Requirement	L13 thru L15	\$ (63)

- (1) The return on net rate base is determined using a permanent capital per-tax rate of return as calculated on Exhibit S-6, Schedule X4
 (2) Depreciation rate for Distribution Plant is 4.11% per Witness Uzenski Exhibit A-13, Schedule C6. Page 2, Line 9
 (3) Property tax epense is assessed based on asset balances at end of year. As such, there is no associated property tax in a one year view.

Michigan Public Service Commission
DTE Electric Company
Infrastructure Recovery Mechanism
Staff's Incremental Revenue Requirement - Distribution Operations
Example of \$1.0 MM Under Investment
(\$000)

Case No.: U-21534
 Exhibit: S-6
 Schedule: X5
 Witness: M. J. Pung
 Page: 2 of 2

	(a)	(b)	(c)
Line No.	Description	Source	Year 1
1	Deferred Tax Expense		
2	Tax Depreciation	Line 19	(38)
3	Book Depreciation	P1, L14	(21)
4	Timing Difference	Line 2 - Line 3	(17)
5	Deferred Tax Expense	Line 4 X 25.91%	\$ (5)
6			
7	Accum. Deferred Tax Expense	Prior Yr plus L5	\$ (5)
8			
9			
10			
11	Tax Depreciation		
12	MACRS Tax Depr Rate (20 Year)		3.750%
13			
14	Year 1 Additions	P1, L3 x P2, L12	(38)
15	Year 2 Additions	P1, L3 x P2, L12	
16	Year 3 Additions	P1, L3 x P2, L12	
17	Year 4 Additions	P1, L3 x P2, L12	
18	Year 5 Additions	P1, L3 x P2, L12	-
19	Total Tax Depreciation	Sum of L14 thru L18	\$ (38)

IRM REVENUE REQUIREMENT

Cost of Service Study

DISTRIBUTION COSTS

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	Total Electric	Residential Secondary	Commercial Secondary	Primary	Subtransmission	Transmission	D-9 OPL Residential	D-9 OPL Commercial	E-1 St Lght	E-2 Signals
<u>2024 - 13 mos. Ending 12/31/2024 /1</u>	3,778									
1 IRM Revenue Requirement (Previously Approved)	3,778	2,311	1,008	301	29	-	6	13	107	3
<u>2025 - 12 mos. Ending 12/31/2025 /1</u>	23,700									
2 IRM Revenue Requirement (Previously Approved)	23,700	14,502	6,323	1,886	184	-	35	79	673	16
<u>Allocation Factors</u>										
3 PIS - Dist Direct 521T (521 excl Transmission)	100.000%	61.123%	27.471%	7.588%	0.621%	0.000%	0.142%	0.329%	2.657%	0.071%
<u>2026 - 12 mos. Ending 12/31/2026 /2</u>	78,405									
4 IRM Revenue Requirement (Proposed)	78,405	47,924	21,538	5,949	487	-	111	258	2,083	55
<u>2027 - 12 mos. Ending 12/31/2027 /3</u>	167,851									
5 IRM Revenue Requirement (Proposed)	167,851	102,596	46,110	12,736	1,043	-	238	552	4,459	119

1/- Amounts match the IRM Revenue Requirement by Class approved in the December 1, 2023 Order in Case No. U-21297

2/- Per Exhibit A-33, Schedule X4 page 1, line 22, col. (e)

3/- Per Exhibit A-33, Schedule X4 page 1, line 22, col. (f)

Michigan Public Service Commission
DTE Electric Company
2023 Energy Sales Revenue Net of Fuel CostCase No.: U-21260
Exhibit: A-22
Witness: E. R. Bidlingmaier
Page: 1 of 1

		(a)	(b)	(c)	(d)
Line No.	Description				
	Energy Sales Revenue		Order U-20836	2023 Actual	Variance
1	2023 Energy Market Sales - \$1,000		\$ 1,680,882	\$ 1,184,410	\$ (496,473)
2	Off-System Energy Sales - \$1,000		\$ -	\$ -	\$ -
3	Unit Specific Bilateral Energy Sales - \$1,000		\$ -	\$ -	\$ -
4	2023 Regulation, Spinning, and Supplemental Ancillary Services Sales - \$1,000		\$ 915	\$ 3,282	\$ 2,367
5	2023 Schedule 2 Reactive Ancillary Services Revenue - \$1,000		\$ 10,776	\$ 704	\$ (10,072)
6	Total 2023 Energy Sales Revenue - \$1,000		\$ 1,692,573	\$ 1,188,395	\$ (504,178)
7					
8					
9	Fuel Related Generation Cost				
10	Total 2023 Fuel & Fuel-Related Generation Expense - \$1,000		\$ 1,004,837	\$ 1,020,096	\$ 15,260
11	2020 Reconciliation of Net Sales Benefit Difference - \$1,000		\$ (351,365)		
12	2023 Energy Sales Revenue Net of Fuel Related Costs - \$1,000		\$ 336,372	\$ 168,299	\$ (168,073)

Michigan Public Service Commission
DTE Electric Company
Tree Trim Regulatory Asset - Return On
Projected 12 Month Period Ending December 31, 2025
(\$000)

Case No.: U-21534
Exhibit: A-11
Schedule: A1.1
Witness: S.Rueckert
Page: 1 of 1

(a)		(b)		(c)	
Line No.	Description	Test Period Amount	Reference		
1	Return on Tree Trim Regulatory Asset				
2	Average Balance Regulatory Asset	275,450	Line 16		
3	Deferred Tax Liability	(71,342)	- Line 2 x 25.9% Composite Tax Rate		
4	Average Net Rate Base	204,108			
5	Staff Rate of Return on Short-Term Debt	4.96%	Exhibit S-4, Schedule D3		
6	Return on Tree Trim	10,133			
				2019-A	2020-A
7	Tree Trim Regulatory Asset			2021-A	2022-A
8	Approved Tree Trim - Surge Funding	43,300	58,200	67,000	52,700
9	Carrying Charges through April 30, 2020 1/	74,100	1,200		43,700
10	Additional Funding Request	-	-	-	87,000
11	Total Tree Trim Reg Asset Deferral	43,300	75,300	70,500	58,200
12	Total Tree Trim Reg Asset Cumulative	43,300	118,600	189,100	247,300
13	Approved for Securitization 2/		(156,900)		157,400
14	Cumulative Balance at December 31		90,400	157,400	210,100
15	Cumulative Balance at December 31				340,800
16	Average Balance				275,450

1/ Interest at U-20162 authorized STD rate of 3.56% until U-20561 order was in effect.

2/ Securitization approved per U-21015 order dated June 23, 2021 (up to \$156.9 per order page 91)

MICHIGAN PUBLIC SERVICE COMMISSION

DTE Electric Company

Projected Accounts 904, 925, and 926 Expenses

for the Projected Test-Period Ending December 31, 2025

(000's)

Case No: U-21534

Exhibit No: S-15.0

Page: 1 of 1

Witness: S.Rueckert

Date: 7/26/2024

	(a.)	(b.)	(c.)	(d.)	(e.)
Ln.	Description	Source	Company Projection	Adjustment	Staff Projection
1	(904) UCX	A-16 C5.8, S-15.1	\$ 50,870	\$ (9,841)	\$ 41,029
2	(925) Injuries & damages	A-13 C5.10, S-15.2	\$ 18,440	\$ (2,863)	\$ 15,577
3	(926) Employee Savings Plan	A-13 C5.11, S-15.3	\$ 37,406	\$ (7,859)	\$ 29,547
4	(926) Active Healthcare	A-13 C5.11, S-15.3	\$ 56,083	\$ (2,334)	\$ 53,749
5	(926) Other Benefits – General Benefits	A-13 C5.11, S-15.3	\$ 2,395	\$ (1,344)	\$ 1,051
6	(926) Other Benefits – Admin Fees	A-13 C5.11, S-15.3	\$ 7,296	\$ (2,588)	\$ 4,708

MICHIGAN PUBLIC SERVICE COMMISSION

DTE Electric Company
Uncollectible Accounts Expense
for the Projected Test-Period Ending December 31, 2025
(000's)

Case No.: U-21534
Exhibit No.: S-15.1
Page: 1 of 1
Witness: S.Rueckert
Date: 7/26/2024

	(a.)	(b.)	(c.)	(d.)	(e.)
Ln.	Description	Source	2023	2022	2021
1	Accounts Written-Off		\$ 72,461	\$ 65,303	\$ 76,776
2	(less) Collection of Accounts Written-Off		\$ (28,320)	\$ (27,645)	\$ (36,732)
3	Net Write-Offs		\$ 44,141	\$ 37,658	\$ 40,044
4	Billed Revenue		\$ 5,847,903	\$ 5,614,043	\$ 5,551,588
5	Net Write-Offs to Revenue Percentage		0.7548%	0.6708%	0.7213%
6	Charges to Direct Expense		\$ 1,095	\$ 2,744	\$ (146)
7	Projected Billed Revenue 12 month's ending 12/31/25	A-16 F2, col. b., ln. 49			\$ 5,561,302
8	3-Year Average Net Write-Offs to Revenue	avg(ln.5, col.c-e)			0.72%
9	Projected Net Write-Offs	(ln 7 x ln 8)			\$ 39,799
10	Historical 3 Year Average Charges to Direct Expense (ln 7)	avg(ln.6, col.c-e)			\$ 1,231
11	Projected Uncollectible Accounts Expense (ln 10+ ln 11)				<u>\$ 41,029</u>

MICHIGAN PUBLIC SERVICE COMMISSION
DTE Electric Company
Injuries & Damages Expense Normalization
(\$000)

Case No.: U-21534
Exhibit No.: S-15.2
Page: 1 of 1
Witness: S.Rueckert
Date: 7/26/2024

	(a.)	(b.)	(c.)	(d.)	(e.)	(f.)	(g.)	(h.)
Ln.	Description	Account	2019	2020	2021	2022	2023	Average (col.c-g)
1	Injuries & Damages Expense	925	\$ 11,042	\$ 11,702	\$ 32,953	\$ 17,158	\$ 5,029	\$ 15,577

MICHIGAN PUBLIC SERVICE COMMISSION

DTE Electric Company

Employee Savings Plan, Active Healthcare Expense, and Other Benefits Projections

for the Projected Test-Period Ending December 31, 2025

(\$000)

Case No.: U-21534

Exhibit No.: S-15.3

Page: 1 of 1

Witness: S.Rueckert

Date: 7/26/2024

(a.)		(b.)	(c.)	(d.)	(e.)	(f.)
Ln.	Description	Source	2023	2024	2025	Staff Projection
				(ln.1, col. c * ln. 2, col. d)	((ln.1, col. c + col. d) * ln.2, col. e)	ln. 1 & (col. c. through e.)
1	Employee Savings Plan (ESP)	S-15.4 ln. 11, col. g.	\$ 27,286	\$ 1,108	\$ 1,153	\$ 29,547
2	Average Annual Growth Rate	S-15.4 ln. 7, col. g.		4.06%	4.06%	
				(ln.3, col. c * ln. 4, col. d)	((ln.3, col. c + col. d) * ln.4, col. e)	
3	Total Active Healthcare (AHC)	S-15.4 ln. 20, col. g.	\$ 80,975	\$ 3,913	\$ 4,102	\$ 88,989
4	Average Annual Growth Rate	S-15.4 ln. 24, col. g.		4.83%	4.83%	
5	Expense percentage	A-13 C5.11.3 col. (l)				60.4%
6	AHC Expense	(ln. 3, col. f.)*(ln. 4, col. f)				\$ 53,749
				(ln.7, col. c * ln. 8, col. d)	((ln.7, col. c + col. d) * ln.8, col. e)	
7	Other Benefits – General Benefits	S-15.4 ln. 26, col. g.	\$ 1,305	\$ (134)	\$ (120)	\$ 1,051
8	Average Annual Growth Rate			-10.24%	-10.24%	
				(ln.9, col. c * ln. 10, col. d)	((ln.9, col. c + col. d) * ln.10, col. e)	
9	Other Benefits – Admin Fees	S-15.4 ln. 29, col. g.	\$ 5,280	\$ (294)	\$ (278)	\$ 4,708
10	Average Annual Growth Rate			-5.57%	-5.57%	

MICHIGAN PUBLIC SERVICE COMMISSION

DTE Electric Company

Employee Savings Plan, Active Healthcare Expense, and Other Benefits

Average Annual Growth Rates (AAGR)

Case No.: U-21534

Exhibit No.: S-15.4

Page: 1 of 1

Witness: S.Rueckert

Date: 7/26/2024

	(a.)	(b.)	(c.)	(d.)	(e.)	(f.)	(g.)
Ln.	Description	2018	2019	2020	2021	2022	2023
1	Employee Savings Plan						
2	Recorded Total	\$ 41,025,520	\$ 43,622,018	\$ 46,240,863	\$ 47,925,356	\$ 49,598,887	\$ 50,182,674
3	Benefits Transfer	-	-	-	-	(56,344.21)	(164,551.36)
4	Other Benefits Correction	-	-	-	-	(355,589.55)	-
5	Net of corrections	\$ 41,025,520	\$ 43,622,018	\$ 46,240,863	\$ 47,925,356	\$ 49,186,953	\$ 50,018,123
6	Annual Change		6.33%	6.00%	3.64%	2.63%	1.69%
7	5yr Average Annual Growth Rate						4.06%
8	Recorded Expense	\$ 27,721,784	\$ 29,729,511	\$ 30,838,305	\$ 31,164,447	\$ 31,509,364	\$ 30,721,622
9	Benefits Transfer	(2,112,465)	(2,259,052)	(2,359,852)	(2,085,150)	(1,973,132)	(3,435,452)
10	Other Benefits Correction					163,205	
11	Net of corrections	\$ 25,609,320	\$ 27,470,458	\$ 28,478,453	\$ 29,079,297	\$ 29,699,436	\$ 27,286,170
12	Recorded Capitalized	\$ 13,303,736	\$ 13,892,508	\$ 15,402,558	\$ 16,760,910	\$ 18,089,523	\$ 19,461,053
13	Benefits Transfer	2,112,465	2,259,052	2,359,852	2,085,150	1,916,788	3,270,901
14	Other Benefits Correction					(518,794)	
15	Net of corrections	\$ 15,416,200	\$ 16,151,560	\$ 17,762,410	\$ 18,846,060	\$ 19,487,517	\$ 22,731,953
16	Active Healthcare						
17	Medical Costs	\$ 63,824,000	\$ 65,627,000	\$ 63,551,000	\$ 78,455,000	\$ 77,234,000	\$ 74,984,000
18	Dental Costs	3,827,000	4,276,000	3,203,000	5,319,000	5,307,000	5,540,000
19	Vision Costs	526,000	516,000	448,000	510,000	457,000	451,000
20	SubTotal Active Healthcare Costs	\$ 68,177,000	\$ 70,419,000	\$ 67,202,000	\$ 84,284,000	\$ 82,998,000	\$ 80,975,000
21	Average Annual Number of Employees	6795	6896	6848	6751	6697	6547
22	Cost/Employee	\$ 10,034	\$ 10,211	\$ 9,814	\$ 12,485	\$ 12,393	\$ 12,369
23	Annual Change		1.76%	-3.89%	27.23%	-0.74%	-0.20%
24	5yr Average Annual Growth Rate						4.83%
25	Other Employee Benefits						
26	General Benefits	\$ 2,447,000	\$ 2,411,000	\$ 2,360,000	\$ 2,285,000	\$ 2,198,000	\$ 1,305,000
27	Annual Change		-1.5%	-2.1%	-3.2%	-3.8%	-40.63%
28	5yr Average Annual Growth Rate						-10.24%
29	Admin Fees	\$ 7,451,000	\$ 6,193,000	\$ 5,448,000	\$ 6,442,000	\$ 6,697,000	\$ 5,280,000
30	Annual Change		-16.9%	-12.0%	18.2%	4.0%	-21.16%
31	5yr Average Annual Growth Rate						-5.57%

Michigan Public Service Commission
DTE Electric Company
Projected Operation and Maintenance Expenses
Summary
(\$000)

Case No.: U-21534
Exhibit: S-3
Schedule: C5
Witness: MLSchreur
Page: 1 of 1

(a)		(b)			
Line No.	Description	Exhibit Source A-13	Applicant Projection	Staff Adjustment	Staff Projection
1	Steam Power Generation	C5.1	213,406	(19,392)	194,013
2	Fuel Supply & MERC Fuel Handling	C5.2	8,115	(463)	7,652
3	Nuclear Power Generation	C5.3	159,366	(371)	158,996
4	Hydraulic Power Generation	C5.4	11,218	-	11,218
5	Other Power Generation	C5.5	31,485	(3,009)	28,476
6	Distribution	C5.6	359,210	-	359,210
7	Customer Service	C5.7	118,625	(1,236)	117,389
8	Uncollectible Accounts Expense	C5.8	50,870	(9,841)	41,029
9	Regulated Marketing	C5.9	32,154	(292)	31,862
10	Corporate Support	C5.10	198,243	(56,700)	141,543
11	Pension and Benefits	C5.11	84,259	(14,125)	70,134
12	Total O&M Expense		1,266,950	(105,429)	1,161,521

Expenses	Witness	Amount
Steam Power Generation	Kindschy	(19,392)
Fuel Supply & Merc Fuel Handling	Kindschy	(463)
Nuclear Power Generation	Kindschy	(371)
Other Power Generation	Kindschy	(3,009)
Customer Service		
Merchant Fees	McMillan-Sepkoski	(1,236)
Uncollectible Accounts Expense	Rueckert	(9,841)
Regulated Marketing	McMillan-Sepkoski	(292)
Corporate Support		
Injuries & Damages	Rueckert	(2,863)
Incentive Compensation	McMillan-Sepkoski	(39,233)
Restricted Stock	McMillan-Sepkoski	(8,960)
Projects with Level 2 Cost Estimates	Rogers	(2,386)
Projects with Level 3 Cost Estimates	Rogers	(84)
Cost to Achieve Projected Expense	Rogers	(3,174)
Pension & Benefits		
Employee Savings Plan	Rueckert	(7,859)
Active Healthcare	Rueckert	(2,334)
Other Benefits - General Benefits	Rueckert	(1,344)
Other Benefits - Admin Fees	Rueckert	(2,588)
TOTAL		(105,429)

DTE Electric Company
Staff Overall Ratemaking Capital Structure
Recommended for Test Year Ending December 31, 2025

Line	Description	Amount (000)	Permanent Ratio	Total Capital Ratio	Cost Rate	Weighted Cost	Conversion Factor	Pre-Tax Weighted Cost
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Long-Term Debt	\$ 8,663,922	49.97%	39.19%	4.21%	1.65%	1.0000	1.65%
2	Preferred Stock	\$0	0.00%	0.00%	0.00%	0.00%	1.3496	0.00%
3	Common Equity	\$ 8,673,528	50.03%	39.23%	9.90%	3.88%	1.3496	5.24%
4	Total Permanent Capital	\$17,337,450	100.00%					
5	Short-Term Debt	\$509,454		2.30%	4.96%	0.11%	1.0000	0.11%
6	Deferred FIT	\$4,229,600		19.13%	0.00%	0.00%	1.0000	0.00%
7	ITC							
8	Def ITC - Long Term Debt	\$15,734		0.07%	4.21%	0.00%	1.0000	0.00%
9	Def ITC - Preferred Stock	\$0		0.00%	0.00%	0.00%	1.3496	0.00%
10	Def ITC - Common Equity	\$15,751		0.07%	9.90%	0.01%	1.3496	0.01%
11	Total ITC	\$31,485				0.01%		0.01%
12	Total Capitalization	\$22,107,989		100.00%		5.66%		7.02%

DTE Electric Company
Cost of Long-Term Debt
Projected 12 Months Ending December 31, 2025

Case No: U-21534
Witness: J. E. Ufolla
Exhibit No: S-4
Schedule No: D-2
Date: 7/26/2024
Page: 1 of 1

Line No.	Issue Name	Original Issue Date	Stated Maturity	Interest Rate	Amount of Offering (\$000)	Price to Public (%)	Expenses of Financing (%)	Net Proceeds to the Company (%)	Cost Based On Net Proceeds (%)	Amount Outstanding (\$000)	Annual Cost (\$000)
1	2002 Series B	10/23/02	10/15/32	6.350%	225,000	99.33%	1.0%	98.369%	6.47%	225,000	14,566
2	2005 Series BR	02/07/05	02/15/35	5.450%	200,000	99.59%	1.0%	98.562%	5.55%	200,000	11,098
3	2005 Series E	10/06/05	10/01/37	5.700%	250,000	99.40%	1.0%	98.420%	5.81%	250,000	14,523
4	2006 Series A	06/01/06	06/01/36	6.625%	250,000	99.95%	1.0%	98.954%	6.71%	250,000	16,766
5	2007 Series A	12/18/07	03/15/38	6.470%	50,000	100.00%	0.8%	99.168%	6.53%	50,000	3,266
6	2011 Series E	09/01/11	09/01/26	4.460%	77,000	100.00%	0.6%	99.411%	4.51%	77,000	3,476
7	2011 Series F	09/01/11	09/01/41	5.670%	46,000	100.00%	0.6%	99.411%	5.71%	46,000	2,627
8	2011 Series H	09/20/11	09/01/41	4.500%	140,000	98.87%	1.1%	97.814%	4.64%	140,000	6,490
9	2012 Series B	06/22/12	06/15/42	3.950%	250,000	99.57%	1.0%	98.541%	4.03%	250,000	10,086
10	2013 Series A	03/27/13	04/01/43	4.000%	375,000	99.55%	1.0%	98.500%	4.09%	375,000	15,327
11	2014 Series A	06/04/14	06/01/26	3.770%	100,000	100.00%	0.6%	99.392%	3.83%	100,000	3,834
12	2014 Series B	06/04/14	06/01/44	4.600%	150,000	100.00%	0.6%	99.392%	4.64%	150,000	6,957
13	2014 Series E	07/02/14	07/01/44	4.300%	350,000	99.85%	1.0%	98.832%	4.37%	350,000	15,296
14	2015 Series A	03/11/15	03/15/45	3.700%	500,000	99.77%	1.0%	98.735%	3.77%	500,000	18,854
15	2016 Series A	05/17/16	06/01/46	3.700%	300,000	99.93%	1.1%	98.824%	3.77%	300,000	11,297
16	2017 Series B	08/09/17	08/15/47	3.750%	440,000	99.95%	1.1%	98.850%	3.81%	440,000	16,784
17	2018 Series A	05/07/18	05/15/48	4.050%	525,000	99.55%	1.1%	98.456%	4.14%	525,000	21,736
18	2019 Series A	02/15/19	03/01/49	3.950%	650,000	99.20%	1.1%	98.111%	4.06%	650,000	26,385
19	2020 Series A	02/26/20	03/01/30	2.250%	600,000	99.88%	0.8%	99.042%	2.36%	600,000	14,148
20	2020 Series B	02/26/20	03/01/50	2.950%	500,000	99.96%	1.1%	98.893%	3.01%	500,000	15,031
21	2020 Series C	04/06/20	03/01/31	2.625%	600,000	99.83%	0.8%	99.004%	2.73%	600,000	16,387
22	2021 Green Series	03/29/21	04/01/28	1.900%	575,000	99.92%	0.9%	99.062%	2.04%	575,000	11,756
23	2021 Green Series	03/29/21	04/01/51	3.250%	425,000	99.17%	1.1%	98.062%	3.35%	425,000	14,250
24	1995CC 2021 Rem	09/01/21	09/01/30	1.450%	82,350	100.00%	0.7%	99.317%	1.53%	82,350	1,261
25	2008ET2 2021 Rer	09/01/21	08/01/29	1.350%	59,175	100.00%	0.7%	99.310%	1.44%	59,175	854
26	2022 Series A 110f	02/24/22	03/01/32	3.000%	500,000	99.60%	0.9%	98.696%	3.15%	500,000	15,764
27	2022 Green Series	02/24/22	03/01/52	3.650%	400,000	99.39%	1.1%	98.260%	3.75%	400,000	14,988
28	2023 Series A 110f	03/03/23	04/01/33	5.200%	600,000	99.79%	0.9%	98.908%	5.34%	600,000	32,045
29	2023 Series B 110f	03/03/23	04/01/53	5.400%	600,000	99.82%	1.1%	98.707%	5.49%	600,000	32,928
30	2023DT Series 11C	06/01/23	06/03/30	3.875%	100,000	100.00%	1.3%	98.730%	4.09%	100,000	4,085
31	2024 Series B	02/29/24	12/01/26	4.850%	500,000	99.98%	0.5%	99.455%	5.06%	500,000	25,308
32	2024 Series C	02/29/24	03/01/34	5.200%	500,000	99.95%	0.8%	99.124%	5.31%	500,000	26,570
33	2025 Series A	03/01/25	03/01/55	5.330%	800,000	100.00%	1.0%	99.00%	5.40%	800,000	43,181
34	2025 Series B	07/01/25	07/01/55	5.330%	500,000	100.00%	1.0%	99.00%	5.40%	500,000	26,988
34											
35	Cost Rate								4.214%	\$ 12,219,525	\$ 514,911
36	13 Month Average										

Treasury 30-Year Bond Yield	
IHS Markit US Economic Outlook	
Date	2025 Yield
May-24	3.960%
Apr-24	3.800%
Mar-24	3.790%
Average	3.850%

Notes:
2024 rates can be seen on Exhibit S-X
2025 rates include 2025 30-year bond yield (above) plus 148 basis point spread (Lepczyk Testimony TJL-13)

Case No: U-21534

Witness: J. E. Ufolla

Exhibit No: S-4

Schedule No: D-3

Date: 7/26/2024

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DTE Electric Company
Cost of Short-Term Debt
Projected 12 Months Ending December 31, 2025

(a)	(b)	(c)	(d)	(e)
		Average Short Term	Cost	Total
<u>Line</u>	<u>Description</u>	<u>Debt Balance</u>	<u>Rate</u>	<u>Cost</u>
1	Short-Term Debt	\$ 509,454	4.71%	\$ 23,995
2	Credit Fees			\$ 1,297
3	Total		4.96%	\$ 25,292

	Projected Rate	Spread	Cost Rate
SOFR - 2025	4.51%	0.20%	4.71%

Source:

Projected Rate - S&P Global Market Intelligence (May 2024)

Spread and Credit Fees - Exhibit A-14 Schedule D3

DTE Electric Company
Cost of Preferred Stock
Projected 12 Months Ending December 31, 2025

Case No: U-21534
Witness: J. E. Ufolla
Exhibit No: S-4
Schedule No: D-4
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(a)	(b)	(c)	(d)	(e)
		Amount	Cost	Total
<u>Line</u>	<u>Description</u>	<u>Outstanding</u>	<u>Rate</u>	<u>Cost</u>
1	Preferred Stock	-	0%	-

Case No: U-21534

Witness: J. E. Ufolla

Exhibit No: S-4

Schedule No: D-5

Date: 7/26/2024

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DTE Electric Company
Cost of Common Equity
Projected 12 Months Ending December 31, 2025

(a)	(b)	(c)	(d)	(e)
		Amount	Cost	Total
<u>Line</u>	<u>Description</u>	<u>Outstanding</u>	<u>Rate</u>	<u>Cost</u>
1	Common Equity	\$ 8,673,528	9.90%	\$ 858,679

Electric Proxy Group Corporate Statistics

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Line		Ticker	Moody's	S&P	Dividend	Value	Holding	Net
<u>No.</u>	<u>Company</u>	<u>Symbol</u>	<u>Rating</u>	<u>Rating</u>	<u>Payout</u>	<u>Line</u>	<u>Company</u>	<u>Plant</u>
					<u>%</u>	<u>Beta</u>	<u>Equity %</u>	<u>(\$000,000)</u>
1	Alliant Energy Corp	LNT	Baa2	A-	65.00%	0.90	45.20%	17,157
2	Ameren Corp	AEE	Baa1	BBB+	57.00%	0.90	43.80%	31,262
3	American Electric Power Co	AEP	Baa2	BBB+	70.00%	0.80	42.00%	71,283
4	CenterPoint Energy Inc	CNP	Baa2	BBB+	58.00%	1.15	35.50%	29,853
5	CMS Energy Corp	CMS	Baa2	BBB+	65.00%	0.85	33.10%	25,072
6	Entergy Corp	ETR	Baa2	BBB+	40.00%	0.95	38.60%	43,834
7	Eversource Energy	ES	Baa2	A-	61.00%	0.95	37.00%	39,499
8	OGE Energy Corp	OGE	Baa1	BBB+	73.00%	1.05	52.40%	10,547
9	WEC Energy Corp	WEC	Baa1	A-	68.00%	0.85	44.50%	31,582
10	Avangrid Inc	AGR	Baa2	BBB+	84.00%	0.95	66.30%	32,857
11	Consolidated Edison Inc	ED	Baa1	A-	62.00%	0.80	49.10%	49,608
12	Dominion Energy	D	Baa2	BBB+	66.00%	0.90	42.40%	58,780
13	Eversource Energy	ES	Baa2	A-	61.00%	0.95	37.00%	39,499
14	PPL Corporation	PPL	Baa1	A-	67.00%	1.15	48.80%	31,418
15	Public Service Enterprise Group	PEG	Baa2	BBB+	65.00%	0.95	46.50%	38,031
16	Pinnacle West Capital Corp	PNW	Baa2	BBB+	77.00%	0.95	45.00%	17,980
17	Sempra Energy	SRE	Baa2	BBB+	52.00%	1.00	49.20%	54,960
18	Xcel Energy Inc	XEL	Baa1	BBB+	59.00%	0.85	41.40%	51,642
19	Average				65%	0.94	44.93%	36,528
20	DTE Electric		A2	A-			50.00%	22,108

Selection Criteria:

Value Line Electric Utiliy
Has data available from all Staff sources for DCF and CAPM
Currently paying Dividend to Shareholders
Must not be a target of a merger or acquisition
Credit rating of Baa1/BBB+ or Higher
Net plant between \$10 - 80 Billion

Sources:

(f) (g) (h) Value Line Reports (March, April 2024)

Case No: U-21534

Witness: J. E. Ufolla

Exhibit No: S-4

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Projected Growth Rates (%)

(a)	(b)	(c)	(d)	(e)	(f)	(g)
Line		Ticker	5-Year	5-Year	5-Year	Average
<u>No.</u>	<u>Company</u>	<u>Symbol</u>	<u>Earnings</u>	<u>ValueLine</u>	<u>Earnings</u>	<u>Growth</u>
1	Alliant Energy Corp	LNT	6.30%	6.50%	6.10%	6.30%
2	Ameren Corp	AEE	4.80%	6.50%	6.50%	5.93%
3	American Electric Power Co	AEP	6.19%	6.50%	5.80%	6.16%
4	CenterPoint Energy Inc	CNP	7.70%	6.00%	7.00%	6.90%
5	CMS Energy Corp	CMS	7.40%	5.00%	7.38%	6.59%
6	Entergy Corp	ETR	6.80%	0.50%	7.46%	4.92%
7	Evergy Inc	EVRG	2.50%	7.50%	5.00%	5.00%
8	OGE Energy Corp	OGE	-12.34%	6.50%	5.00%	-0.28%
9	WEC Energy Corp	WEC	6.68%	6.00%	7.17%	6.62%
10	Avangrid Inc	AGR	0.40%	3.50%	6.00%	3.30%
11	Consolidated Edison Inc	ED	6.09%	6.00%	2.00%	4.70%
12	Dominion Energy	D	19.50%	3.00%	10.55%	11.02%
13	Eversource Energy	ES	3.25%	6.00%	4.16%	4.47%
14	PPL Corporation	PPL	6.80%	7.50%	6.46%	6.92%
15	Public Service Enterprise Group	PEG	5.25%	5.00%	6.24%	5.50%
16	Pinnacle West Capital Corp	PNW	6.90%	4.50%	7.55%	6.32%
17	Sempra Energy	SRE	5.90%	7.00%	6.00%	6.30%
18	Xcel Energy Inc	XEL	6.73%	7.00%	6.41%	6.71%
19	Average		5.38%	5.58%	6.27%	5.74%

Discounted Cash flow Model (DCF)

(a) Line No.	(b) Company	(c) Ticker Symbol	(d) Dividend Yield	(e) Growth Rate	(f) Cost of Equity DCF	(g) Adjusted DCF
1	Alliant Energy Corp	LNT	3.74%	6.30%	10.04%	10.16%
2	Ameren Corp	AEE	3.60%	5.93%	9.53%	9.64%
3	American Electric Power Co	AEP	3.85%	6.16%	10.01%	10.13%
4	CenterPoint Energy Inc	CNP	2.70%	6.90%	9.60%	9.69%
5	CMS Energy Corp	CMS	3.28%	6.59%	9.87%	9.98%
6	Entergy Corp	ETR	4.04%	4.92%	8.96%	9.06%
7	Evergy Inc	EVRG	4.61%	5.00%	9.61%	9.73%
8	OGE Energy Corp	OGE	4.61%	-0.28%	4.33%	4.32%
9	WEC Energy Corp	WEC	3.94%	6.62%	10.56%	10.69%
10	Avangrid Inc	AGR	4.72%	3.30%	8.02%	8.10%
11	Consolidated Edison Inc	ED	3.40%	4.70%	8.10%	8.18%
12	Dominion Energy	D	5.03%	11.02%	16.05%	16.32%
13	Eversource Energy	ES	4.67%	4.47%	9.14%	9.24%
14	PPL Corporation	PPL	3.53%	6.92%	10.45%	10.57%
15	Public Service Enterprise Grou	PEG	3.27%	5.50%	8.77%	8.86%
16	Pinnacle West Capital Corp	PNW	4.57%	6.32%	10.89%	11.03%
17	Sempra Energy	SRE	3.22%	6.30%	9.52%	9.62%
18	Xcel Energy Inc	XEL	3.92%	6.71%	10.63%	10.76%
19	Proxy Average					9.78%
20	Proxy Low Value					4.32%
21	Proxy High Value					16.32%
22	Proxy Median					9.71%

DCF = Dividend Yield + Growth Rate

Adjusted DCF = Growth Rate + (Dividend Yield)/(1 + 0.5 Growth Rate)

Sources:

- (d) Value Line Reports (March, April 2024)
- (e) Exhibit S-4 Schedule D-5 Page 3

Capital Asset Pricing Model (CAPM)

(a) <u>Line</u>	(b) <u>Company</u>	(c) <u>Ticker Symbol</u>	(d) <u>Value Line Beta</u>	(e) <u>Risk Free Rate</u>	(f) <u>1928-2023 Risk Premium</u>	(g) <u>Historical CAPM</u>
1	Alliant Energy Corp	LNT	0.90	3.850%	6.80%	9.97%
2	Ameren Corp	AEE	0.90	3.850%	6.80%	9.97%
3	American Electric Power Co	AEP	0.80	3.850%	6.80%	9.29%
4	CenterPoint Energy Inc	CNP	1.15	3.850%	6.80%	11.67%
5	CMS Energy Corp	CMS	0.85	3.850%	6.80%	9.63%
6	Entergy Corp	ETR	0.95	3.850%	6.80%	10.31%
7	Evergy Inc	EVRG	0.95	3.850%	6.80%	10.31%
8	OGE Energy Corp	OGE	1.05	3.850%	6.80%	10.99%
9	WEC Energy Corp	WEC	0.85	3.850%	6.80%	9.63%
10	Avangrid Inc	AGR	0.95	3.850%	6.80%	10.31%
11	Consolidated Edison Inc	ED	0.80	3.850%	6.80%	9.29%
12	Dominion Energy	D	0.90	3.850%	6.80%	9.97%
13	Eversource Energy	ES	0.95	3.850%	6.80%	10.31%
14	PPL Corporation	PPL	1.15	3.850%	6.80%	11.67%
15	Public Service Enterprise Group	PEG	0.95	3.850%	6.80%	10.31%
16	Pinnacle West Capital Corp	PNW	0.95	3.850%	6.80%	10.31%
17	Sempra Energy	SRE	1.00	3.850%	6.80%	10.65%
18	Xcel Energy Inc	XEL	0.85	3.850%	6.80%	9.63%
19	Proxy Average		<u>0.94</u>			<u>10.23%</u>
20	Proxy Low Value		0.80			9.29%
21	Proxy High Value		1.15			11.67%
22	Proxy Median		0.95			10.31%

Source:

(e) Exhibit S-4 Schedule D-2

(f) Exhibit S-4 Schedule D-5 Page 6

Historical Risk Premium

Year	Long Term Gov			Year	Long Term Gov		
	S&P 500 Total Returns	Bonds Income Returns	Difference		S&P 500 Total Returns	Bonds Income Returns	Difference
1928	43.81%	3.22%	40.59%	1990	-3.06%	8.19%	-11.25%
1929	-8.30%	3.47%	-11.77%	1991	30.23%	8.22%	22.01%
1930	-25.12%	3.32%	-28.44%	1992	7.49%	7.26%	0.23%
1931	-43.84%	3.33%	-47.17%	1993	9.97%	7.17%	2.80%
1932	-8.64%	3.69%	-12.33%	1994	1.33%	6.59%	-5.26%
1933	49.98%	3.12%	46.86%	1995	37.20%	7.60%	29.60%
1934	-1.19%	3.18%	-4.37%	1996	22.68%	6.18%	16.50%
1935	46.74%	2.81%	43.93%	1997	33.10%	6.64%	26.46%
1936	31.94%	2.77%	29.17%	1998	28.34%	5.83%	22.51%
1937	-35.34%	2.66%	-38.00%	1999	20.89%	5.57%	15.32%
1938	29.28%	2.64%	26.64%	2000	-9.03%	6.50%	-15.53%
1939	-1.10%	2.40%	-3.50%	2001	-11.85%	5.53%	-17.38%
1940	-10.67%	2.23%	-12.90%	2002	-21.97%	5.59%	-27.56%
1941	-12.77%	1.94%	-14.71%	2003	28.36%	4.80%	23.56%
1942	19.17%	2.46%	16.71%	2004	10.74%	5.02%	5.72%
1943	25.06%	2.44%	22.62%	2005	4.83%	4.69%	0.14%
1944	19.03%	2.46%	16.57%	2006	15.61%	4.68%	10.93%
1945	35.82%	2.34%	33.48%	2007	5.48%	4.86%	0.62%
1946	-8.43%	2.04%	-10.47%	2008	-36.55%	4.45%	-41.00%
1947	5.20%	2.13%	3.07%	2009	25.94%	3.47%	22.47%
1948	5.70%	2.40%	3.30%	2010	14.82%	4.25%	10.57%
1949	18.30%	2.25%	16.05%	2011	2.10%	3.82%	-1.72%
1950	30.81%	2.12%	28.69%	2012	15.89%	1.47%	14.42%
1951	23.68%	2.38%	21.30%	2013	32.15%	2.90%	29.25%
1952	18.15%	2.66%	15.49%	2014	13.52%	3.41%	10.11%
1953	-1.21%	2.84%	-4.05%	2015	1.38%	2.47%	-1.09%
1954	52.56%	2.79%	49.77%	2016	11.77%	2.30%	9.47%
1955	32.60%	2.75%	29.85%	2017	21.61%	2.67%	18.94%
1956	7.44%	2.99%	4.45%	2018	-4.23%	2.82%	-7.05%
1957	-10.46%	3.44%	-13.90%	2019	31.21%	2.55%	28.66%
1958	43.72%	3.27%	40.45%	2020	18.02%	1.53%	16.49%
1959	12.06%	4.01%	8.05%	2021	28.47%	1.73%	26.74%
1960	0.34%	4.26%	-3.92%	2022	-18.04%	2.61%	-20.65%
1961	26.64%	3.83%	22.81%	2023	26.06%	4.09%	21.97%
1962	-8.81%	4.00%	-12.81%				
1963	22.61%	3.89%	18.72%				
1964	16.42%	4.15%	12.27%	1928-2023	11.66%	4.86%	6.80%
1965	12.40%	4.19%	8.21%	Average			
1966	-9.97%	4.49%	-14.46%				
1967	23.80%	4.59%	19.21%				
1968	10.81%	5.50%	5.31%				
1969	-8.24%	5.95%	-14.19%				
1970	3.56%	6.74%	-3.18%				
1971	14.22%	6.32%	7.90%				
1972	18.76%	5.87%	12.89%				
1973	-14.31%	6.51%	-20.82%				
1974	-25.90%	7.27%	-33.17%				
1975	37.00%	7.99%	29.01%				
1976	23.83%	7.89%	15.94%				
1977	-6.98%	7.14%	-14.12%				
1978	6.51%	7.90%	-1.39%				
1979	18.52%	8.86%	9.66%				
1980	31.74%	9.97%	21.77%				
1981	-4.70%	11.55%	-16.25%				
1982	20.42%	13.50%	6.92%				
1983	22.34%	10.38%	11.96%				
1984	6.15%	11.74%	-5.59%				
1985	31.24%	11.25%	19.99%				
1986	18.49%	8.98%	9.51%				
1987	5.81%	7.92%	-2.11%				
1988	16.54%	8.97%	7.57%				
1989	31.48%	8.81%	22.67%				

Sources: S&P 500 Total Return - Damodaran Online (NYU) Stocks, bonds, and Bills
Government Bond Retruns 1928-2022 - Kroll SBBI Yearbook 2023
Government Bond Retruns 2023 onward - Federal Reserve (FRED) Market Yield on U.S.
Treasury Securities at 30-Year Constant Maturity

Dow Jones Utility Average

<u>Line</u>	<u>(a) Date</u>	<u>(b) Index value</u>	<u>(c) Price Return %</u>	<u>(d) TR Index Value</u>	<u>(e) TR % avg</u>
1	3-Jan-00	276.72		577.38	
2	29-Dec-00	412.16	48.95	890.95	54.31
3	31-Dec-01	293.94	(28.68)	656.90	(26.27)
4	31-Dec-02	215.18	(26.79)	503.29	(23.38)
5	31-Dec-03	266.90	24.04	651.22	29.39
6	31-Dec-04	334.95	25.50	848.16	30.24
7	30-Dec-05	405.11	20.95	1061.35	25.14
8	29-Dec-06	456.77	12.75	1237.84	16.63
9	31-Dec-07	532.69	16.62	1486.82	20.11
10	31-Dec-08	370.76	(30.40)	1072.94	(27.84)
11	31-Dec-09	398.01	7.35	1206.78	12.47
12	31-Dec-10	404.99	1.75	1284.76	6.46
13	30-Dec-11	464.88	14.79	1537.94	19.71
14	31-Dec-12	453.09	(2.54)	1563.18	1.64
15	31-Dec-13	490.57	8.27	1761.56	12.69
16	31-Dec-14	618.08	25.99	2301.45	30.65
17	31-Dec-15	577.82	(6.51)	2230.94	(3.06)
18	31-Dec-16	659.61	14.15	2636.44	18.18
19	31-Dec-17	723.37	9.67	2988.41	13.35
20	31-Dec-18	712.93	(1.44)	3047.76	1.99
21	31-Dec-19	879.17	23.32	3879.67	27.30
22	31-Dec-20	864.64	(1.65)	3939.83	1.55
22	31-Dec-21	980.78	13.43	4609.97	17.01
22	30-Dec-22	967.40	(1.36)	4686.93	1.67
23	31-Dec-23	881.67	(8.86)	4420.24	(5.69)

Source

Column (b & d): data source from S&P Global with reference to the Dow Jones Utility Average Total Return
Address is <https://www.spglobal.com/spdji/en/indices/equity/dow-jones-utility-average/#overview>

Historical Utility Equity and Bond Data

ELECTRIC UTILITY

Period	Market Price - Weighted Average - \$ Per Share (End of Dec)	Capital Gain/Loss % Growth (Loss) on Nat. Gas Stock	Dividend Yield on Nat. Gas Stock (End of Dec) (Mergent)	Total Return (Capital Gain +Dividend Yield)
1931	43.23		7.40	7.40
1932	39.42	(8.81)	5.63	(3.18)
1933	28.73	(27.12)	6.09	(21.03)
1934	21.06	(26.70)	6.74	(19.96)
1935	36.06	71.23	3.69	74.92
1936	41.60	15.36	4.28	19.64
1937	24.24	(41.73)	6.93	(34.80)
1938	27.55	13.66	5.26	18.92
1939	28.85	4.72	5.23	9.95
1940	22.22	(22.98)	7.07	(15.91)
1941	13.45	(39.47)	9.44	(30.03)
1942	14.29	6.25	8.96	15.21
1943	21.01	47.03	6.66	53.69
1944	21.09	0.38	6.40	6.78
1945	31.14	47.65	4.40	52.05
1946	32.71	5.04	4.52	9.56
1947	25.60	(21.74)	6.17	(15.57)
1948	26.20	2.34	6.22	8.56
1949	30.57	16.68	5.50	22.18
1950	30.81	0.79	6.00	6.79
1951	33.85	9.87	5.61	15.48
1952	37.85	11.82	5.07	16.89
1953	39.61	4.65	5.28	9.93
1954	47.56	20.07	4.50	24.57
1955	49.35	3.76	4.60	8.36
1956	48.96	(0.79)	4.84	4.05
1957	50.30	2.74	4.89	7.63
1958	66.37	31.95	3.87	35.82
1959	65.77	(0.90)	4.01	3.11
1960	76.82	16.80	3.57	20.37
1961	99.32	29.29	2.88	32.17
1962	96.49	(2.85)	3.18	0.33
1963	102.31	6.03	3.25	9.28
1964	115.54	12.93	3.19	16.12
1965	114.86	(0.59)	3.50	2.91
1966	105.99	(7.72)	3.94	(3.78)
1967	98.19	(7.36)	4.52	(2.84)
1968	104.04	5.96	4.40	10.36
1969	84.62	(18.67)	5.47	(13.20)
1970	88.59	4.69	5.34	10.03
1971	85.56	(3.42)	5.62	2.20
1972	83.61	(2.28)	5.88	3.60
1973	60.87	(27.20)	8.28	(18.92)
1974	41.17	(32.36)	11.73	(20.63)
1975	55.66	35.20	8.97	44.17
1976	66.29	19.10	7.92	27.02
1977	68.19	2.87	8.33	11.20
1978	59.75	(12.38)	10.01	(2.37)
1979	56.41	(5.59)	11.24	5.65
1980	54.42	(3.53)	12.26	8.73
1981	57.20	5.11	12.52	17.63
1982	70.26	22.83	10.87	33.70
1983	72.03	2.52	11.11	13.63
1984	80.16	11.29	10.44	21.73
1985	94.98	18.49	9.17	27.66
1986	113.66	19.67	7.89	27.56
1987	94.24	(17.09)	9.68	(7.41)
1988	100.94	7.11	8.63	15.74
1989	122.52	21.38	7.22	28.60
1990	117.77	(3.88)	7.44	3.56
1991	144.02	22.29	6.26	28.55
1992	141.06	(2.06)	6.25	4.19
1993	146.70	4.00	6.16	10.16
1994	115.50	(21.27)	7.80	(13.47)
1995	142.90	23.72	6.34	30.06
1996	136.00	(4.83)	6.67	1.84
1997	155.73	14.51	5.82	20.33
1998	181.84	16.77	4.40	21.17
1999	137.30	(24.49)	5.87	(18.62)
2000	227.09	65.40	3.84	69.24
2001	200.50	(11.71)	4.47	(7.24)
2002	169.50	(15.46)	5.21	(10.25)

Bond Yields

Yields on A-Rated Public Utility Bonds (end of Dec)	30-Year Treasury Yields (1931- 2022)
6.24	3.33%
5.85	3.69%
7.22	3.12%
5.36	3.18%
4.29	2.81%
3.83	2.77%
4.03	2.66%
3.74	2.64%
3.38	2.40%
3.10	2.23%
3.06	1.94%
3.06	2.46%
2.99	2.44%
2.97	2.46%
2.75	2.34%
2.76	2.04%
3.05	2.13%
3.06	2.40%
2.78	2.25%
2.86	2.12%
3.29	2.38%
3.22	2.66%
3.38	2.84%
3.11	2.79%
3.35	2.75%
3.91	2.99%
4.36	3.44%
4.49	3.27%
4.96	4.01%
4.65	4.26%
4.65	3.83%
4.44	4.00%
4.46	3.89%
4.54	4.15%
4.83	4.19%
5.67	4.49%
6.67	4.59%
6.87	5.50%
8.59	5.95%
8.48	6.74%
7.90	6.32%
7.48	5.87%
8.24	6.51%
10.27	7.27%
10.11	7.99%
8.62	7.89%
8.64	7.14%
9.70	7.90%
11.79	8.86%
14.63	9.97%
16.29	11.55%
14.43	13.50%
13.52	10.38%
13.11	11.74%
10.97	11.25%
9.12	8.98%
10.98	7.92%
10.06	8.97%
9.44	8.81%
9.73	8.19%
8.88	8.22%
8.43	7.26%
7.34	7.17%
8.76	6.59%
7.23	7.60%
7.59	6.18%
7.16	6.64%
6.91	5.83%
8.14	5.57%
7.84	6.50%
7.83	5.53%
6.93	5.59%

Dow Jones Utility Average (Total Return)

Index Value	Return %
29.39	6.27
30.24	5.92
25.14	5.80
16.63	5.81
20.11	6.16
(27.84)	6.54
12.47	5.79
6.46	5.56
19.71	4.33
1.64	4.00
12.69	4.81
2,301.45	3.94
2,230.94	4.39
2,636.44	4.22
2,988.41	3.75
3,047.76	4.26
3,879.67	3.48
3,939.83	2.71
4,609.97	3.02
4,686.93	5.44
4,420.24	5.19

1931 - 2023 Electric Utility Return Average 10.77

1931 - 2023 Average Yield on Public Utility Bonds 6.28

1931 - 2023 Average Yield on Treasury Bonds 5.99

Risk Premium Method

(a) Line No.	(b)	(c)
1	Electric Utility Realized Market Return Average (1931 - 2023) ⁽¹⁾	10.77%
2	Realized Utility Bond Yield Average (1931 - 2023)	6.28%
3	Treasury Bond Yield Average (1931 - 2023)	5.99%
4	Historical Spread Utility Equity-Bond [1] - [2]	4.49%
5	Historical Spread Utility Bond-Treasury Bond [1] - [3]	4.78%

Utility Bond Risk Premium

6	Value Line Long Term Utility Bond Returns	5.56%
7	Historical Cost of Equity Estimate [4] + [6]	<u><u>10.05%</u></u>

Treasury Bond Risk Premium

8	Treasury Bond Yield	3.85%
9	Historical Cost of Equity Estimate [5] + [8]	<u><u>8.63%</u></u>

Sources

(Line 1-3) Exhibit S-4 Schedule D-5 page 8

(Line 6) - Value Line Selection and Options Utility (25/30-year) A and Baa/BBB

Date	Utility A-rated	Utility Baa/BBB-rated
6/7/2024	5.60	5.92
5/31/2024	5.59	5.92
5/24/2024	5.64	5.96
5/17/2024	5.63	5.95
5/10/2024	5.74	6.06
5/3/2024	5.74	6.07
4/26/2024	5.73	6.05
4/19/2024	5.55	5.85
4/12/2024	5.49	5.81
4/5/2024	5.45	5.77
3/29/2024	5.50	5.82
3/22/2024	5.33	5.66
3/15/2024	5.44	5.76
3/8/2024	5.47	5.78
Average	5.56	5.88

(Line 8) Exhibit S-4 Schedule D-2

**Allowed Returns on Common Equity
Electric Utility Rate Case Decisions
State Commissions Across the United States
(2023 - 2024)**

<u>Time Period</u>	<u>ROE Allowed</u>	<u>Number of Rate Cases</u>
Q1 2024	9.66%	12
Q2 2024		
Q3 2024		
Q4 2024		
Full Year Average	<u>9.66%</u>	<u>12</u>
Q1 2023	9.71%	10
Q2 2023	9.42%	11
Q3 2023	9.54%	16
Q4 2023	9.67%	26
Full Year Average	<u>9.60%</u>	<u>63</u>

Source:

S&P Global Market Intelligence
Regulatory Research Associates
RRA Regulatory Focus
Major Rate Case Decisions

Summary of Cost of Equity Estimates

(a)	(b)	(c)	(d)
Line No.	Methodology		Proxy Results
1	DCF Single Step	Average	9.78%
2		Median	9.71%
3	Historical CAPM	Average	10.23%
4		Median	10.31%
7	Utility Bond Risk Premium: A-Rated Bonds		10.05%
9	Treasury Bond Risk Premium		8.63%
10	Average Gas Utility Other State ROE Decision 2024:		9.66%
11	Average Gas Utility Other State ROE Decision 2023:		9.60%
12	ROE Range		9.30% - 10.30%
13	ROE used in Overall Cost of Capital:		<u>9.90%</u>

MPSC Case No: U-21534

Requester: Staff

Question No.: JEU-1.4

Respondent: T. Lepczyk

Page: 1 of 1

Question: On Exhibit A-14 Schedule D2, please update bond issuance “2024 Series A” with the actual figures determined upon its issuance.

Answer: See attachment labeled “U-21534 JEU-1.4-01 Exhibit A-14 Schedule D2 updated”

Attachment: U-21534 JEU-1.4-01 Exhibit A-14 Schedule D2 updated

Michigan Public Service Commission
DTE Electric Company
Projected Cost of Long-Term Debt
Projected 12 Month Period Ending December 31, 2025

Case No.: U-21534
Exhibit: A-14
Schedule: D2
Witness: T. J. Lepczyk
Page: 1 of 1

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
Line No.	Issue Name	Original Issue Date	Stated Maturity	Interest Rate %	Amount of Offering (\$000)	Price to Public %	Expenses of Financing %	Net Proceeds to the Company %	Cost Based on Net Proceeds %	12/31/2025 Amount Outstanding (\$000)	Annual Cost (\$000)
1	2002 Series B	10/23/02	10/15/32	6.350%	225,000	99.33%	1.0%	98.369%	6.47%	225,000	14,566
2	2005 Series BR	02/07/05	02/15/35	5.450%	200,000	99.59%	1.0%	98.562%	5.55%	200,000	11,098
3	2005 Series E	10/06/05	10/01/37	5.700%	250,000	99.40%	1.0%	98.420%	5.81%	250,000	14,523
4	2006 Series A	06/01/06	06/01/36	6.625%	250,000	99.95%	1.0%	98.954%	6.71%	250,000	16,766
5	2007 Series A	12/18/07	03/15/38	6.470%	50,000	100.00%	0.8%	99.168%	6.53%	50,000	3,266
6	2011 Series E	09/01/11	09/01/26	4.460%	77,000	100.00%	0.6%	99.411%	4.51%	77,000	3,476
7	2011 Series F	09/01/11	09/01/41	5.670%	46,000	100.00%	0.6%	99.411%	5.71%	46,000	2,627
8	2011 Series H	09/20/11	09/01/41	4.500%	140,000	98.87%	1.1%	97.814%	4.64%	140,000	6,490
9	2012 Series B	06/22/12	06/15/42	3.950%	250,000	99.57%	1.0%	98.541%	4.03%	250,000	10,086
10	2013 Series A	03/27/13	04/01/43	4.000%	375,000	99.55%	1.0%	98.500%	4.09%	375,000	15,327
11	2014 Series A	06/04/14	06/01/26	3.770%	100,000	100.00%	0.6%	99.392%	3.83%	100,000	3,834
12	2014 Series B	06/04/14	06/01/44	4.600%	150,000	100.00%	0.6%	99.392%	4.64%	150,000	6,957
13	2014 Series E	07/02/14	07/01/44	4.300%	350,000	99.85%	1.0%	98.832%	4.37%	350,000	15,296
14	2015 Series A	03/11/15	03/15/45	3.700%	500,000	99.77%	1.0%	98.735%	3.77%	500,000	18,854
15	2016 Series A	05/17/16	06/01/46	3.700%	300,000	99.93%	1.1%	98.824%	3.77%	300,000	11,297
16	2017 Series B	08/09/17	08/15/47	3.750%	440,000	99.95%	1.1%	98.850%	3.81%	440,000	16,784
17	2018 Series A	05/07/18	05/15/48	4.050%	525,000	99.55%	1.1%	98.456%	4.14%	525,000	21,736
18	2019 Series A	02/15/19	03/01/49	3.950%	650,000	99.20%	1.1%	98.111%	4.06%	650,000	26,385
19	2020 Series A	02/26/20	03/01/30	2.250%	600,000	99.88%	0.8%	99.042%	2.36%	600,000	14,148
20	2020 Series B	02/26/20	03/01/50	2.950%	500,000	99.96%	1.1%	98.893%	3.01%	500,000	15,031
21	2020 Series C	04/06/20	03/01/31	2.625%	600,000	99.83%	0.8%	99.004%	2.73%	600,000	16,387
22	2021 Green Series A 110	03/29/21	04/01/28	1.900%	575,000	99.92%	0.9%	99.062%	2.04%	575,000	11,756
23	2021 Green Series B 110	03/29/21	04/01/51	3.250%	425,000	99.17%	1.1%	98.062%	3.35%	425,000	14,250
24	1995CC 2021 Remarketir	09/01/21	09/01/30	1.450%	82,350	100.00%	0.7%	99.317%	1.53%	82,350	1,261
25	2008ET2 2021 Remarketi	09/01/21	08/01/29	1.350%	59,175	100.00%	0.7%	99.310%	1.44%	59,175	854
26	2022 Series A 110091	02/24/22	03/01/32	3.000%	500,000	99.60%	0.9%	98.696%	3.15%	500,000	15,764
27	2022 Green Series B 110	02/24/22	03/01/52	3.650%	400,000	99.39%	1.1%	98.260%	3.75%	400,000	14,988
28	2023 Series A 110093	03/03/23	04/01/33	5.200%	600,000	99.79%	0.9%	98.908%	5.34%	600,000	32,045
29	2023 Series B 110094	03/03/23	04/01/53	5.400%	600,000	99.82%	1.1%	98.707%	5.49%	600,000	32,928
30	2023DT Series 110095	06/01/23	06/03/30	3.875%	100,000	100.00%	1.3%	98.730%	4.09%	100,000	4,085
31	2024 Series B	02/29/24	12/01/26	4.850%	500,000	99.98%	0.5%	99.455%	5.06%	500,000	25,308
32	2024 Series C	02/29/24	03/01/34	5.200%	500,000	99.95%	0.8%	99.124%	5.31%	500,000	26,570
33	2025 Series A	03/01/25	03/01/55	5.620%	800,000	100.00%	1.0%	99.00%	5.69%	800,000	45,519
34	2025 Series B	07/01/25	07/01/55	5.620%	500,000	100.00%	1.0%	99.00%	5.69%	500,000	28,449
									4.24%	12,219,525	518,710

DTE Electric Co.

Aug 18, 2023

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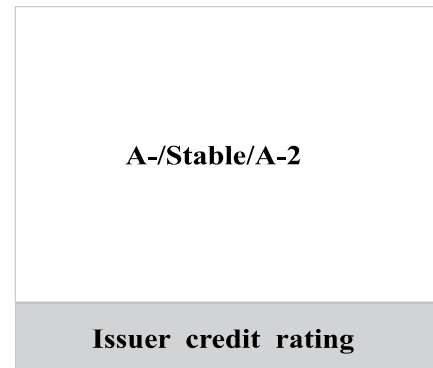
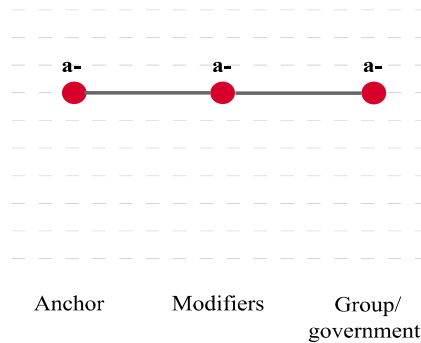
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Ratings Score Snapshot

Business risk: **Excellent**



Financial risk: **Significant**



Credit Highlights

Download Table

Overview

Key strengths

Lower-risk, rate-regulated, vertically integrated electric utility.

Effective management of regulatory risk in a credit-supportive regulatory environment.

Generates most of its cash flows from residential customers, providing a measure of stability to its cash flows.

Insulating measures in place support an issuer credit rating that is one-notch above the parent.

Key risks

Lack of regulatory diversity makes the company dependent on the Michigan Public Service Commission (MPSC) to sustain credit quality.

Predominantly fossil-based generation exposes the company to environmental risk, partially mitigated by recently approved integrated resource plan (IRP), which signals a manageable path to address energy transition risk.

Capital spending remains elevated, and negative discretionary cash flow is likely to persist, which indicates external funding needs.

Service territory is susceptible to severe weather, including high winds, floods, tornados, and ice storms.

On July 26, 2023, the Michigan Public Service Commission (MPSC) approved an integrated resources plan (IRP) for DTE Electric (DTEE).

Provisions include:

- Converting the Belle River coal generation facility to natural gas by 2026.
- Retiring two coal-units at the Monroe generating facility by 2028, with the remaining two units retired by 2032.
- Developing 6,500 megawatts (MW) of solar power and 8,900 MW of wind power by 2042.
- Accelerating the development of energy storage, with a target of 780 MW through 2030 and 1,830 through 2042.

Overall, the approved IRP is favorable for DTEE's credit quality. We think MPSC's approval is constructive because it indicates a possible path for DTEE to transition away from coal-fired generation in a manner that supports credit quality. Key reasons include pre-approval of \$125 million of capital to convert the Belle River coal generation facility to gas, and favorable regulatory treatment for the remaining net-book value of affected coal-fired assets to be retired. Specifically, MPSC authorizes DTEE to securitize approximately \$1 billion in certain investments related to its Belle River and Monroe assets after these plants are closed. Furthermore, we expect DTEE to receive recovery of the remaining net book value of its Monroe generation assets over 15 years, with an authorized return on equity of 9%, beginning with the company's next rate order.

DTEE's rate case is pending. On Feb. 10, 2023, DTEE filed a rate case requesting a base rate increase of about \$622 million based on a 10.25% requested return on equity (ROE). The company expects a final MPSC order by year-end 2023. This follows a November 2022 decision, where the MPSC issued an order for DTEE authorizing a \$31 million rate increase, compared with the company's initial rate increase request of \$388 million. Given this development, we will continue to monitor the outcome of this pending rate case.

Outlook

Our stable outlook on DTEE reflects our base-case assumption that the company will generate sufficient cash flow to maintain financial measures that support an adjusted FFO-to-debt ratio of 19%-20% through 2024. The stable outlook also reflects our expectation that parent DTE Energy Co. (DTE) will focus growth on its lower-risk, regulated utility strategy. We expect the utility businesses will account for about 90% of the consolidated company. We expect DTE's financial measures will generally remain in line with expectations, including FFO to debt of about 14%-16%

Downside scenario

We could lower our rating on DTEE within the next 24 months if we lower our rating on DTE, or if DTEE's stand-alone financial measures weaken such that its FFO to debt remains consistently below 15%.

Upside scenario

We could raise our rating on DTEE within the next 24 months if we raise our rating on DTE and DTEE's stand-alone FFO to debt consistently exceeds 21%.

Our Base-Case Scenario

Assumptions

- Modest customer growth;
- Continued use of regulatory mechanisms and rate riders;
- Capital expenditure averaging about \$3.6 billion annually through 2025;
- Annual dividend payments on average that range from \$760 million to \$875 million;
- Continued negative discretionary cash flow; and
- All debt maturities are refinanced.

Key metrics

Download Table

DTE Electric Co.--Forecast summary

Period ending	Dec-31-2019	Dec-31-2020	Dec-31-2021	Dec-31-2022	Dec-31-2023	Dec-31-2024	Dec-31-2025
(Mil. \$)	2019a	2020a	2021a	2022a	2023f	2024f	2025f
Revenue	5,224	5,506	5,809	6,353	6,134	6,670	6,645
Gross profit	3,834	4,109	4,268	4,363	4,541	4,989	4,982
EBITDA (reported)	2,059	2,267	2,378	2,523	2,691	3,107	3,065
Plus: Operating lease adjustment (OLA) rent	41	14	14	12	12	12	12
Plus/(less): Other	197	226	204	180	151	127	124
EBITDA	2,297	2,507	2,596	2,715	2,854	3,246	3,201
Less: Cash interest paid	309	329	335	359	(494)	(568)	(640)
Less: Cash taxes paid	46	14	5	(33)	(16)	12	20
Plus/(less): Other	--	--	--	--	--	--	--
Funds from operations (FFO)	1,943	2,165	2,256	2,389	2,345	2,690	2,581
EBIT	1,284	1,365	1,454	1,523	1,560	1,873	1,745
Interest expense	465	490	504	551	666	740	812
Cash flow from operations (CFO)	1,740	1,909	1,273	1,654	2,290	2,402	2,338
Capital expenditure (capex)	2,192	2,666	3,008	2,617	3,306	3,693	3,707
Free operating cash flow (FOCF)	(453)	(757)	(1,735)	(964)	(1,016)	(1,291)	(1,369)
Dividends	494	539	588	763	1,003	773	847
Share repurchases (reported)	--	--	--	--	--	--	--
Discretionary cash flow (DCF)	(947)	(1,296)	(2,323)	(1,727)	(2,019)	(2,064)	(2,216)

Debt (reported)	7,632	8,337	9,113	10,291	11,750	12,937	14,474
Plus: Lease liabilities debt	86	86	69	55	55	55	55
Plus: Pension and other postretirement debt	(725)	(454)	(228)	(270)	270	270	270
Less: Accessible cash and liquid Investments	12	16	9	15	--	--	(0)
Plus/(less): Other	656	629	715	927	357	428	502
Debt	9,087	9,490	10,115	11,528	12,432	13,690	15,300
Equity	7,195	8,070	8,903	9,695	9,956	10,923	11,404
FOCF (adjusted for lease capex)	(480)	(771)	(1,737)	(967)	(1,033)	(1,308)	(1,386)
Interest expense (reported)	313	331	335	370	473	543	617
Capex (reported)	2,200	2,674	3,017	2,626	3,315	3,698	3,711
Cash and short-term investments (reported)	12	16	9	15	--	--	0
Adjusted ratios							
Debt/EBITDA (x)	4.0	3.8	3.9	4.2	4.4	4.2	4.8
FFO/debt (%)	21.4	22.8	22.3	20.7	18.9	19.7	16.9
FFO cash interest coverage (x)	7.3	7.6	7.7	7.6	5.8	5.7	5.0
EBITDA interest coverage (x)	4.9	5.1	5.1	4.9	4.3	4.4	3.9
CFO/debt (%)	19.1	20.1	12.6	14.3	18.4	17.5	15.3
FOCF/debt (%)	(5.0)	(8.0)	(17.2)	(8.4)	(8.2)	(9.4)	(8.9)
DCF/debt (%)	(10.4)	(13.7)	(23.0)	(15.0)	(16.2)	(15.1)	(14.5)
Lease capex-adjusted FOCF/debt (%)	(5.3)	(8.1)	(17.2)	(8.4)	(8.3)	(9.6)	(9.1)
Annual revenue growth (%)	(1.4)	5.4	5.5	9.4	(3.5)	8.7	(0.4)
Gross margin (%)	73.4	74.6	73.5	68.7	74.0	74.8	75.0
EBITDA margin (%)	44.0	45.5	44.7	42.7	46.5	48.7	48.2
Return on capital (%)	8.2	8.1	8.0	7.6	7.2	8.0	6.8
Return on total assets (%)	5.4	5.3	5.3	5.2	5.0	5.6	4.9
EBITDA/cash interest (x)	7.4	7.6	7.7	7.6	5.8	5.7	5.0
EBIT interest coverage (x)	2.8	2.8	2.9	2.8	2.3	2.5	2.1
Debt/debt and equity (%)	55.8	54.0	53.2	54.3	55.5	55.6	57.3
Debt fixed-charge coverage (x)	4.9	5.1	5.1	4.9	4.3	4.4	3.9
Debt/debt and undepreciated equity (%)	39.5	38.6	53.2	54.3	55.5	55.6	57.3

Company Description

DTEE generates and distributes electricity to about 2.3 million residential, commercial, and industrial customers in southeastern Michigan. The electric utility has around 12,000 megawatts of generation capacity.

Peer Comparison

Download Table

DTE Electric Co.--Peer Comparisons

	DTE Electric Co.	CenterPoint Energy Inc.	CMS Energy Corp.	NiSource Inc.	Southwestern Public Service Co.
Foreign currency issuer credit rating	A-/Stable/A-2	BBB+/Stable/A-2	BBB+/Stable/A-2	BBB+/Stable/A-2	A-/Stable/A-2
Local currency issuer credit rating	A-/Stable/A-2	BBB+/Stable/A-2	BBB+/Stable/A-2	BBB+/Stable/A-2	A-/Stable/A-2
Period	Annual	Annual	Annual	Annual	Annual
Period ending	2022-12-31	2022-12-31	2022-12-31	2022-12-31	2022-12-31
Mil.	\$	\$	\$	\$	\$
Revenue	6,353	9,088	8,562	5,851	2,426
EBITDA	2,715	2,699	2,428	2,029	886
Funds from operations (FFO)	2,389	1,706	1,917	1,641	808
Interest	551	600	506	415	168
Cash interest paid	359	572	509	381	159
Operating cash flow (OCF)	1,654	1,491	859	1,383	710
Capital expenditure	2,617	4,375	2,410	2,175	576
Free operating cash flow (FOCF)	(964)	(2,884)	(1,550)	(792)	134

Discretionary cash flow (DCF)	(1,727)	(3,349)	(2,148)	(1,227)	(185)
Cash and short-term investments	15	509	164	41	2
Gross available cash	15	509	164	41	2
Debt	11,528	17,659	13,926	11,806	3,793
Equity	9,695	9,645	8,600	7,462	3,850
EBITDA margin (%)	42.7	29.7	28.4	34.7	36.5
Return on capital (%)	7.6	6.4	5.9	6.6	6.1
EBITDA interest coverage (x)	4.9	4.5	4.8	4.9	5.3
FFO cash interest coverage (x)	7.6	4.0	4.8	5.3	6.1
Debt/EBITDA (x)	4.2	6.5	5.7	5.8	4.3
FFO/debt (%)	20.7	9.7	13.8	13.9	21.3
OCF/debt (%)	14.3	8.4	6.2	11.7	18.7
FOCF/debt (%)	(8.4)	(16.3)	(11.1)	(6.7)	3.5
DCF/debt (%)	(15.0)	(19.0)	(15.4)	(10.4)	(4.9)

Business Risk

Our assessment of DTEE's stand-alone business risk profile reflects the very low risk of the regulated utility business, operations under a credit-supportive regulatory environment in Michigan, effective management of regulatory risk, and large customer base of 2.3 million customers in Michigan. DTEE benefits from a constructive and supportive regulatory framework in Michigan that supports forward-looking rate cases and various riders that enhance cash flow predictability. In addition, the predominance of residential and commercial customers restricts susceptibility to economic cyclicality and provides more stable operating cash flow. These business strengths are partially offset by its lack of geographic and regulatory diversity with operations focus in southeastern Michigan.

DTEE generates a significant proportion of power through coal plants, which exposes it to large carbon emissions. To comply with the environment regulations and renewable energy requirements, DTEE has retired six coal-fired generation units at the Trenton Channel, River Rouge, and St. Clair facilities and plans to retire its remaining 11 coal-fired generating units by 2032. As part of its earlier coal exit, DTE now expects to achieve an 85% reduction in CO2 emissions by 2032, a 90% reduction by 2040, and net-zero carbon emissions by 2050. DTEE will continue to replace the retired facilities with a combination of renewables, energy waste reduction, demand response, and natural gas-fueled generation, including the Blue Water Energy Center, which commenced operations in June 2022.

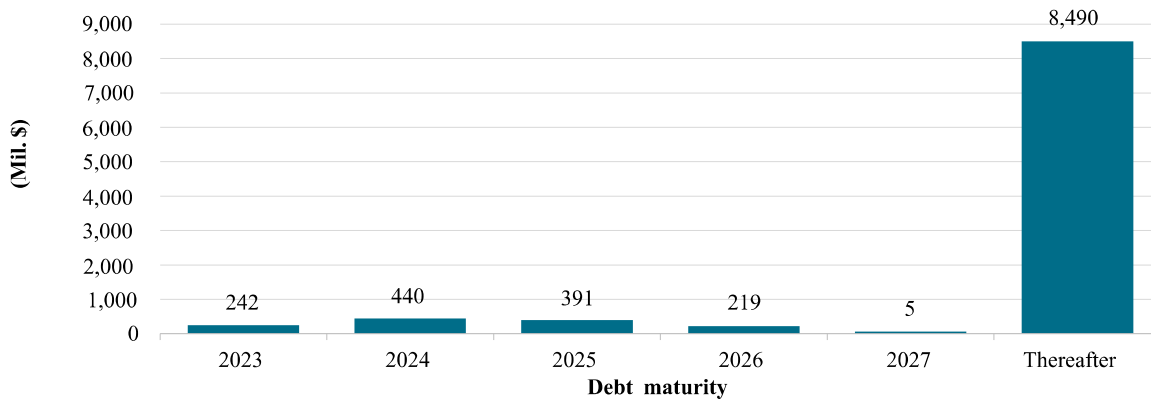
Financial Risk

We assess DTEE's financial measures using our medial volatility table. This reflects the company's regulated electric utility operation and its effective management of regulatory risk in Michigan. Under our base-case scenario, we expect the company's financial measures to remain in the significant range of financial risk profile. Specifically, we expect FFO to debt of about 19%-20% through 2024. Our base-case scenario assumes effective management of regulatory risk through use of the existing constructive regulatory mechanisms in Michigan, capital spending averaging about \$3.6 billion annually, dividends averaging about \$875 million annually, and continued negative discretionary cash flow primarily driven by robust capital spending. We also expect DTEE will continue to fund its investments in a manner that preserves credit quality.

Debt maturities

[Download Chart Data](#)

DTE Electric Co.--Debt maturities
As of December 2022



Source. DTE Electric Co. Annual Report 2022

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[Download Table](#)

DTE Electric Co.--Financial Summary

Period ending	Dec-31-2017	Dec-31-2018	Dec-31-2019	Dec-31-2020	Dec-31-2021	Dec-31-2022
Reporting period	2017a	2018a	2019a	2020a	2021a	2022a
Display currency (mil.)	\$	\$	\$	\$	\$	\$
Revenues	5,102	5,298	5,224	5,506	5,809	6,353
EBITDA	2,137	2,157	2,297	2,507	2,596	2,715
Funds from operations (FFO)	1,885	1,858	1,943	2,165	2,256	2,389
Interest expense	409	428	465	490	504	551
Cash interest paid	267	299	309	329	335	359
Operating cash flow (OCF)	1,590	1,725	1,740	1,909	1,273	1,654
Capital expenditure	1,568	1,982	2,192	2,666	3,008	2,617
Free operating cash flow (FOCF)	22	(257)	(453)	(757)	(1,735)	(964)
Discretionary cash flow (DCF)	(410)	(718)	(947)	(1,296)	(2,323)	(1,727)
Cash and short-term investments	15	18	12	16	9	15
Gross available cash	15	18	12	16	9	15
Debt	7,762	8,219	9,087	9,490	10,115	11,528
Common equity	6,265	6,793	7,195	8,070	8,903	9,695
Adjusted ratios						
EBITDA margin (%)	41.9	40.7	44.0	45.5	44.7	42.7
Return on capital (%)	9.9	8.7	8.2	8.1	8.0	7.6
EBITDA interest coverage (x)	5.2	5.0	4.9	5.1	5.1	4.9
FFO cash interest coverage (x)	8.1	7.2	7.3	7.6	7.7	7.6
Debt/EBITDA (x)	3.6	3.8	4.0	3.8	3.9	4.2
FFO/debt (%)	24.3	22.6	21.4	22.8	22.3	20.7
OCF/debt (%)	20.5	21.0	19.1	20.1	12.6	14.3
FOCF/debt (%)	0.3	(3.1)	(5.0)	(8.0)	(17.2)	(8.4)
DCF/debt (%)	(5.3)	(8.7)	(10.4)	(13.7)	(23.0)	(15.0)

[Download Table](#)

Reconciliation Of DTE Electric Co. Reported Amounts With S&P Global Adjusted Amounts (Mil. \$)

[illegible]

Company reported amounts	10,291	9,695	6,397	2,523	1,319	370	2,715	1,690	163	2,626
Cash taxes paid	-	-	-	-	-	-	33	-	-	-
Cash interest paid	-	-	-	-	-	-	(350)	-	-	-
Lease liabilities	55	-	-	-	-	-	-	-	-	-
Operating leases	-	-	-	12	2	2	(2)	10	-	-
Postretirement benefit obligations/deferred compensation	270	-	-	-	-	-	-	-	-	-
Accessible cash and liquid investments	(15)	-	-	-	-	-	-	-	-	-
Capitalized interest	-	-	-	-	-	11	(11)	(11)	-	(11)
Share-based compensation expense	-	-	-	40	-	-	-	-	-	-
Securitized stranded costs	(211)	-	(44)	(44)	(5)	(5)	5	(39)	-	-
Power purchase agreements	35	-	-	3	1	1	(1)	2	-	2
Asset-retirement obligations	1,103	-	-	172	172	172	-	-	-	-
Nonoperating income (expense)	-	-	-	-	26	-	-	-	-	-
U.S. decommissioning fund contributions	-	-	-	-	-	-	-	1	-	-
EBITDA - Gain/(loss) on disposals of PP&E	-	-	-	8	8	-	-	-	-	-
Total adjustments	1,237	-	(44)	192	204	181	(326)	(36)	-	(9)
S&P Global Ratings adjusted	Debt	Equity	Revenue	EBITDA	EBIT	Interest expense	Funds from Operations	Operating cash flow	Dividends	Capital expenditure
	11,528	9,695	6,353	2,715	1,523	551	2,389	1,654	763	2,617

Liquidity

As of June 30, 2023, we assess DTEE's liquidity as adequate, with sources covering uses by 1.1x over the coming 12 months, and that its sources cover uses even if forecasted consolidated EBITDA declines by 10%. We believe the supportive regulatory framework provides a manageable level of cash flow stability for the company even in times of economic stress, supporting our use of slightly lower thresholds to assess liquidity. In addition, DTEE has the ability to absorb high-impact, low-probability events, reflecting that the company maintains about \$800 million in committed credit facilities through 2027, and our belief the company can lower its capital spending (averaging about \$3.6 billion annually) during stressful periods, indicative of a limited need for refinancing under such conditions. Furthermore, our assessment reflects the company's prudent risk management and sound relationship with its banking group. Overall, we believe the company should be able to withstand adverse market circumstances over the next 12 months with sufficient liquidity to meet its obligations. The company has around \$440 million of debt maturities coming up in 2024 and we expect it to proactively address these maturities well in advance of their scheduled due dates.

Principal liquidity sources	Principal liquidity uses
- Cash and liquid investments of about \$8 million; - Credit facility availability of about \$800 million; and - Estimated cash FFO of about \$2.4 billion over the next 12 months.	- Debt maturities of about \$867 million including current portion of long-term debt and short-term borrowings; - Assumed maintenance capital spending of about \$1.1 billion; and - Dividends of about \$875 million.

Environmental, Social, And Governance

Environmental factors are a negative consideration in our credit rating analysis of DTEE. The company has substantial exposure to environmental risks compared with peers given its heavy dependence on coal-fired generation and exposure to nuclear generation. Coal-fired generation contributed about 54% of DTEE's net generation portfolio in 2021, a significant carbon footprint relative to its peers. The company is trying to reduce its carbon footprint by retiring its coal-fired generation and replacing that capacity with clean energy sources. We expect coal to approximate 45% of its generation mix by the end of 2023. The recently approved IRP in Michigan signals a manageable path for the company to address energy-transition

risk. Additionally, the company's nuclear generation (10% of net generation capacity) features higher operating and nuclear waste risks and exposes it to potential health and safety risks.

Group Influence

Under our group rating methodology, we assess DTEE as a core subsidiary of DTE, reflecting our view that DTEE benefits from a strong, long-term commitment from senior management, is integral to the group strategy, and is highly unlikely to be sold. DTEE is insulated from parent DTE. This means we expect that any significant credit stress at DTE would have a minimally adverse effect on DTEE's creditworthiness. We rate DTEE one notch higher than the 'bbb+' group credit profile because of the strength of its stand-alone credit profile and our view of its separateness from the group in terms of financial performance, funding arrangements, and operational independence. DTEE maintains its own records and funding arrangements and does not commingle funds, assets, or cash flow. In addition, because it is an independent regulated utility, we believe there is a strong economic incentive for parent DTE to preserve its credit strength, and we do not expect that a default by either DTE or another entity in the group would lead the company to default.

Issue Ratings--Subordination Risk Analysis

Capital structure

DTEE has close to \$12 billion of debt in its capital structure, including a mix of senior unsecured debt and first-mortgage bonds.

Analytical conclusions

We rate DTEE's senior unsecured debt the same as the issuer credit rating because it is the debt of a qualified investment-grade utility. Our short-term and commercial paper rating on DTEE is based on the company's issuer-credit rating.

Issue Ratings--Recovery Analysis

Key analytical factors

DTEE's first-mortgage bonds benefit from a first-priority lien on substantially all of the utility's real property owned or subsequently acquired. Collateral coverage of more than 1.5x supports a recovery rating of '1+' and an issue rating one notch above the issuer credit rating.

Download Table

Rating Component Scores

Foreign currency issuer credit rating	A-/Stable/A-2
Local currency issuer credit rating	A-/Stable/A-2
Business risk	Excellent
Country risk	Very Low
Industry risk	Very Low
Competitive position	Excellent
Financial risk	Significant
Cash flow/leverage	Significant
Anchor	a-
Diversification/portfolio effect	Neutral (no impact)
Capital structure	Neutral (no impact)
Financial policy	Neutral (no impact)
Liquidity	Adequate (no impact)
Management and governance	Satisfactory (no impact)
Comparable rating analysis	Neutral (no impact)
Stand-alone credit profile	a-

Related Criteria

- [General Criteria: Group Rating Methodology](#), July 1, 2019
- [ARCHIVE | General Criteria: Hybrid Capital: Methodology And Assumptions](#), July 1, 2019
- [Criteria | Corporates | General: Corporate Methodology: Ratios And Adjustments](#), April 1, 2019
- [Criteria | Corporates | General: Reflecting Subordination Risk In Corporate Issue Ratings](#), March 28, 2018
- [General Criteria: Methodology For Linking Long-Term And Short-Term Ratings](#), April 7, 2017
- [Criteria | Corporates | General: Methodology And Assumptions: Liquidity Descriptors For Global Corporate Issuers](#), Dec. 16, 2014
- [Criteria | Corporates | Industrials: Key Credit Factors For The Unregulated Power And Gas Industry](#), March 28, 2014
- [ARCHIVE | Criteria | Corporates | Industrials: Key Credit Factors For The Midstream Energy Industry](#), Dec. 19, 2013

- [Criteria | Corporates | General: Corporate Methodology](#), Nov. 19, 2013
- [General Criteria: Country Risk Assessment Methodology And Assumptions](#), Nov. 19, 2013
- [General Criteria: Methodology: Industry Risk](#), Nov. 19, 2013
- [Criteria | Corporates | Utilities: Key Credit Factors For The Regulated Utilities Industry](#), Nov. 19, 2013
- [Criteria | Corporates | Utilities: Collateral Coverage And Issue Notching Rules For '1+' And '1' Recovery Ratings On Senior Bonds Secured By Utility Real Property](#), Feb. 14, 2013
- [General Criteria: Methodology: Management And Governance Credit Factors For Corporate Entities](#), Nov. 13, 2012
- [General Criteria: Principles Of Credit Ratings](#), Feb. 16, 2011

Download Table

Ratings Detail (as of August 16, 2023)*

DTE Electric Co.

Issuer Credit Rating	A-/Stable/A-2
Commercial Paper	
Local Currency	A-2
Senior Secured	A
Senior Secured	A/A-2

Issuer Credit Ratings History

27-Aug-2019	A-/Stable/A-2
21-Aug-2015	BBB+/Stable/A-2
19-Aug-2013	BBB+/Positive/A-2

*Unless otherwise noted, all ratings in this report are global scale ratings. S&P Global Ratings credit ratings on the global scale are comparable across countries. S&P Global Ratings credit ratings on a national scale are relative to obligors or obligations within that specific country. Issue and debt ratings could include debt guaranteed by another entity, and rated debt that an entity guarantees.

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CREDIT OPINION

6 July 2023

Update



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RATINGS

DTE Electric Company

Domicile	Detroit, Michigan, United States
Long Term Rating	A2
Type	LT Issuer Rating
Outlook	Stable

Please see the [ratings section](#) at the end of this report for more information. The ratings and outlook shown reflect information as of the publication date.

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DTE Electric Company

Update to credit analysis

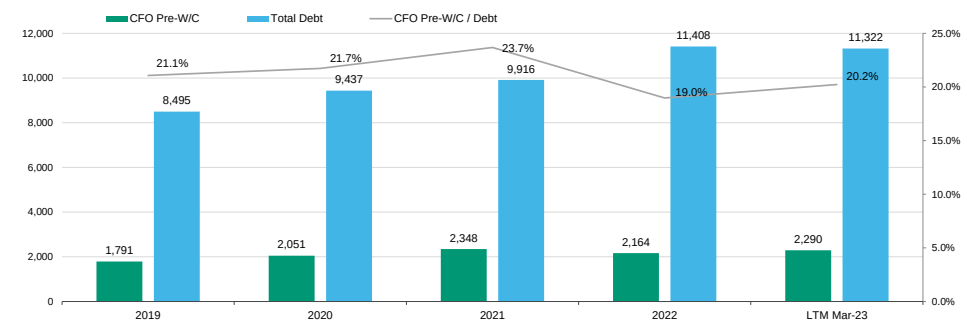
Summary

DTE Electric Company's (DTE Electric) credit quality reflects its operating profile as a vertically integrated utility in a credit supportive regulatory environment in Michigan that provides steady and predictable cash flow. This is offset by capital investments that will remain elevated in order to maintain operational reliability, and to transform DTE Electric's predominantly coal-fired generation fleet into a more balanced portfolio with natural gas fuel and renewable technologies.

Over the next couple of years, we expect DTE Electric to produce cash flow from operations before changes in working capital (CFO pre-WC) to debt between 21% and 23% compared to 23.7% and 19% in 2021 and 2022, respectively. The decline in 2022 was primarily due to the company's robust capital investment program, the mismatched timing of the commodity cost recovery and the outcome of its last electric rate case. We anticipate that DTE Electric's leverage will be maintained at an elevated level to fund its capital investment program. However, the company should maintain a relatively steady credit profile supported by regulatory mechanisms for cost recovery available in Michigan.

Exhibit 1

Historical CFO pre-WC, Total Debt and CFO pre-WC to Debt \$MM



For analytical purpose, we exclude securitization bonds and the underfunded portion of NDT in the credit metric calculations. DTE Electric's CFO pre-WC to debt ratio in 2021, 2022 and LTM 1Q23 would be 24.5%, 20.6% and 21.9%, respectively, when we make these adjustments.

Source: Moody's Financial Metrics

Credit strengths

- » Stable financial profile with predictable cash flow
- » Supportive regulatory environment
- » Timely cost recovery mechanisms

Credit challenges

- » Maintaining regulatory support for significant capital expenditure program
- » Elevated leverage and slightly lower metrics compared to historical levels
- » High, albeit moderating, exposure to coal-fired generation

Rating outlook

DTE Electric's stable outlook reflects our expectation that the Michigan legislative and regulatory environments will remain credit supportive and enable the utility to recover the cost of, and earn a reasonable return on, prudently incurred capital investments and maintain a consistent financial profile.

Factors that could lead to an upgrade

A rating upgrade could be considered if the ratio of CFO pre-WC to debt is consistently above 24%. Also, if the Michigan regulatory environment became even more formulaic, transparent or timely with its suite of recovery mechanisms, an upgrade could be considered.

Factors that could lead to a downgrade

DTE Electric's rating could be downgraded if there is an adverse change in Michigan's regulatory environment, leading to an increase in recovery lag, less transparency, more contentiousness or insufficient cost recovery and returns. Also, if capital investments are higher than expected or there are uncertain recovery prospects, or if its credit metrics deteriorate such that the ratio of CFO pre-WC to debt remains below 21% for a sustained period of time, a downgrade could be possible.

Key indicators [1] [2]

Exhibit 2

DTE Electric Company

	Dec-19	Dec-20	Dec-21	Dec-22	LTM Mar-23
CFO Pre-W/C + Interest / Interest	6.3x	6.8x	7.5x	6.5x	6.6x
CFO Pre-W/C / Debt	21.1%	21.7%	23.7%	19.0%	20.2%
CFO Pre-W/C – Dividends / Debt	15.3%	16.0%	17.8%	12.3%	14.3%
Debt / Capitalization	47.2%	47.1%	46.0%	47.4%	47.3%

[1] All ratios are based on 'Adjusted' financial data and incorporate Moody's Global Standard Adjustments for Non-Financial Corporations.

[2] For our analytical purposes, we exclude securitization bonds and the underfunded portion of NDT in the credit metric calculations. DTE Electric's CFO pre-WC to debt ratio in 2021, 2022 and LTM 1Q23 were 24.5%, 20.6% and 21.9%, respectively, excluding these factors.

Source: Moody's Financial Metrics

Profile

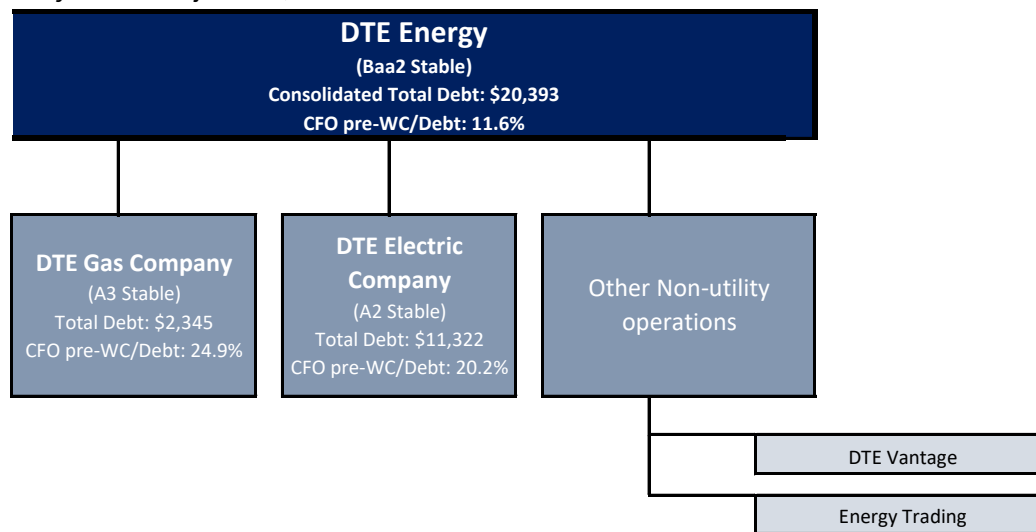
DTE Electric is a vertically integrated electric utility regulated by the Michigan Public Service Commission (MPSC) and is the largest subsidiary of DTE Energy Company (DTE, Baa2 stable). The company serves approximately 2.3 million customers in southeastern Michigan, with approximately \$22 billion in rate base.

This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the issuer/deal page on <https://ratings.moody's.com> for the most updated credit rating action information and rating history.

Exhibit 3

Organizational Chart

Amounts including Moody's Standard Adjustments, as of 3/31/2023



Source: Moody's Financial Metrics, company presentation

Detailed credit considerations**Generally credit supportive Michigan regulatory environment**

DTE Electric benefits from a credit supportive regulatory environment in Michigan, which helps sustain the utility's long-term credit quality. As a result of energy legislation passed in both 2008 and 2016, the regulatory framework and rate case process have been streamlined and the timeliness of cost recovery has improved. Also, Michigan continues to provide credit positive financial support for utility investments. The 2016 legislation provided additional assurance of utility investment recovery by expanding the certificate of necessity (CON) process, which already included pre-construction approval for large generating resources, into an integrated resource planning (IRP) process. The IRP process considers a wide range of factors including fuel cost, demand forecasts, resource adequacy, competitive pricing, environmental mandates and transmission options, before constructing major projects.

In November 2022, DTE Electric filed its request for approval of its latest IRP. In its proposed plan, DTE Electric is seeking to accelerate the retirements of its two coal-fired power plants: Belle River to 2026 from 2028 and Monroe to 2028 and 2035 from 2040. Also, the proposal included converting Belle River to natural gas generation, and the addition of 15 GW of solar and wind generation sources along with 1,800 MW of storage. Based on the proposed IRP, DTE is targeting to achieve carbon reduction of 85% in 2035, 90% by 2040 and net zero by 2050.

Prescriptive suite of cost recovery mechanisms

Michigan utilities benefit from several formulaic rate adjustment mechanisms that provide a high degree of cash flow stability and assurance of cost recovery and have allowed DTE Electric to consistently earn its allowed return. For example, DTE Electric has a forward-looking power supply cost recovery (PSCR) mechanism intended to ensure that it can recover prudently incurred power supply costs. The PSCR covers fuel and purchased power costs as well as transmission and emission allowance costs. Differences between actual and forecast costs are deferred for recovery or refunded in the following year. DTE Electric also has a forward-looking 20-year levelized renewable energy plan surcharge (RPS), structured to recover the cost of complying with the utility's renewable energy requirements. We view these automatic adjustment mechanisms as positive for credit quality.

In February 2023, DTE Electric filed its latest rate case, requesting a \$622 million base rate increase. The requested increase was based on a forward looking test year ending 30 November 2024 and an allowed return on equity (ROE) of 10.25%. The Staff of the MPSC filed its recommendation for a \$383.2 million revenue increase based on a 9.8% ROE in June 2023. Although the staff's recommendation was below the company's request, we expect a constructive outcome of the rate case. A final order from the MPSC is expected in December 2023.

DTE Electric's prior rate case was not consistent with its rate case outcome historical trends and our expectation. In its case filed in January 2022, a discrepancy regarding its sales forecast resulted in a significant difference in the company's requested rate increase of \$388 million and the \$31 million increase authorized by the MPSC. Given that the primary reason for the difference was the sales forecast, which is addressed in the current rate case as actual sales, we view that the outcome of the prior rate case was not an indication of any material change in Michigan's regulatory environment.

Overall stable financial profile through elevated capital investment cycle

Over the last three years, DTE Electric has averaged CFO pre-WC to debt of around 21% with its metric as of latest twelve month (LTM) period ending 31 March 2023 at 20.2%, including new securitization debt and the underfunded portion of its nuclear decommissioning obligations. Excluding these items, we estimate the ratio to be 21.9% at the same period. We expect the utility's CFO pre-WC to debt, excluding securitization debt and underfunded NDT, to be in the 21%-23% range over the next two years. Capital expenditures will continue to be relatively robust as a result of increased investment in distribution infrastructure and renewable generation. However, DTE Electric should continue to benefit from the credit supportive regulatory framework, recovering its investment costs on a timely basis.

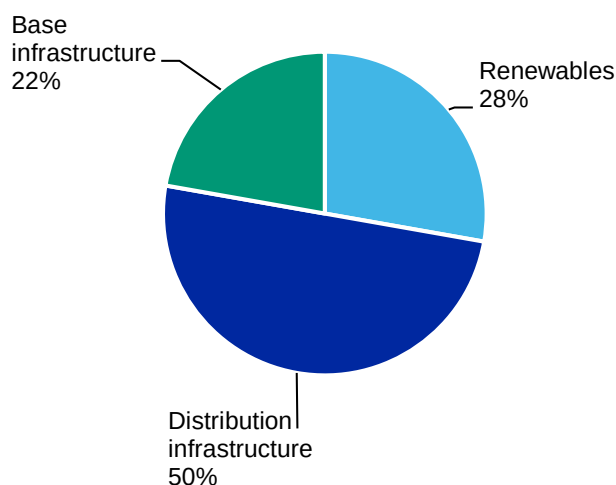
DTE Electric's investment plan through 2027 is approximately \$18 billion. Approximately \$9 billion of these investments will be related to improving its distribution infrastructure. About \$4 billion is earmarked for base infrastructure improvements and \$5 billion is for cleaner generation sources including renewables. DTE Electric has retired eleven coal-fired generation units. In its latest proposed IRP, the company described its plan to accelerate the retirement of the Monroe and Belle River plants. DTE Electric has been authorized to issue securitization bonds to recover the remaining book value of its retired coal power plants thus far and we expect the utility to receive constructive regulatory treatment for the remaining planned retirements.

On 3 April 2023, DTE Electric filed an application with the MPSC seeking approval for the securitization of \$496 million related to the net book value of the St. Clair and Trenton Channel power plants. On 22 June 2023, the company received a MPSC order authorizing a securitization of \$602 million related to the net book value of the St. Clair and Trenton Channel power plants. A securitization financing is expected by the fourth quarter of 2023.

Exhibit 4

DTE Electric's capex guidance through 2027 aggregates around \$18 billion

2023-2027 Forecast Capex: \$18 billion



Source: Company presentation

ESG considerations

DTE Electric's ESG Credit Impact Score is CIS-3

Exhibit 5

ESG Credit Impact Score

CIS-3

Moderately Negative

For an issuer scored CIS-3 (Moderately Negative), its ESG attributes are overall considered as having a limited impact on the current rating, with greater potential for future negative impact over time. The negative influence of the overall ESG attributes on the rating is more pronounced compared to an issuer scored CIS-2.



Source: Moody's Investors Service

DTE Electric's ESG Credit Impact Score **of CIS-3** reflects the company's current high exposure to coal-fired generation that is reducing over time; and inherent social risk for regulated utilities tied to demographic and societal trends; and governance attributes that pose no particular risk to the company.

Exhibit 6

ESG Issuer Profile Scores

ENVIRONMENTAL

E-3

Moderately Negative



SOCIAL

S-3

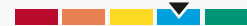
Moderately Negative



GOVERNANCE

G-2

Neutral-to-Low



Source: Moody's Investors Service

Environmental

DTE Electric's environmental risks (**E-3** issuer profile score) reflect its current high exposure to coal-fired generation that is reducing over the medium term, decreasing its overall carbon transition risk. The company is currently undergoing a transition plan to phase out coal-fired generation. Its carbon transition efforts are supported by Michigan legislation and regulatory framework, which allow DTE Electric to phase out coal while providing timely cost recovery, and is articulated in its integrated resource planning.

Social

Social risk for DTE Electric (**S-3** issuer profile score) is primarily related to the utility's customer and regulatory relations as well as demographic and societal trends that could increase public concerns over affordability and the utility's reputation. These pressures could turn into an adverse political intervention or regulatory response.

Governance

DTE Electric's governance does not pose a particular risk (**G-2** issuer profile score) as its financing strategy and risk management, as well as management credibility and track record, are considered to be neutral to low risk.

Liquidity analysis

We expect DTE Electric's liquidity to be adequate over the next 12-18 months.

DTE Electric has access to an \$800 million revolving credit facility expiring in October 2027 and, as of 31 March 2023, there were no borrowings outstanding. The credit facility has one financial covenant that requires a maximum debt to capital ratio of 65%; as of 31 March 2023, the ratio was reported to be 53%.

Given its large capital investment program, DTE Electric is reliant on external capital sources in addition to internally generated cash flow. For the LTM ended 31 March 2023, DTE Electric generated \$1.9 billion of cash from operations, invested \$2.8 billion in capital investments and upstreamed \$668 million in dividend payments to DTE, resulting in negative free cash flow of \$1.6 billion.

We note that DTE Electric has received equity contributions from the parent every year, albeit in varying amounts. In 2021 and 2022, capital contributions from the parent were \$555 million and \$600 million, respectively. We expect parent equity contributions to continue over the next 2-3 years.

In addition, cash shortfalls were partly funded by incremental long-term debt at the DTE Electric level. Given DTE Electric's significant capital plans, we anticipate a continued need for external financing and regulatory support. Through 31 March 2023, DTE Electric issued \$1.2 billion of First Mortgage Bonds (FMB). In June, the company issued \$100 million of tax-exempt bonds related to conversion and disposal to dry ask at St. Clair and Monroe power plants.

As of 31 March 2023, DTE has a \$1.5 billion revolving credit facility expiring in October 2027, a \$150 million letter of credit facility expiring in February 2025, and an unsecured letter of credit facility of \$50 million. DTE retired the \$81 million revolving credit facility which expired in May 2023 with commercial paper issuance and extended and decreased the \$375 million letter of credit facility matured in June 2023 for \$275 million to June 2024. In addition in June 2023, DTE increased the above unsecured letter of credit from \$50 million to \$100 million, and added another \$100 million unsecured letter of credit facility for \$100 million which can be utilized by DTE Energy or DTE Electric.

As of 31 March 2023, DTE had \$80 million of revolver borrowings, \$315 million of letters of credit and \$50 million of commercial paper issuances outstanding, leaving \$1.7 billion of net availability. None of the DTE credit facilities have a MAC clause for new borrowings and all maintain a single financial covenant test requiring DTE to maintain a total funded debt to capitalization ratio of no more than 70% and DTE was in compliance with 63%.

Rating methodology and scorecard factors

As a vertically integrated utility that has generation, DTE Electric is scored under the standard risk Regulated Electric and Gas Utilities methodology financial metric grid.

Exhibit 7

Methodology Scorecard Factors

DTE Electric Company

Regulated Electric and Gas Utilities Industry [1][2]

	Current LTM 3/31/2023	
Factor 1 : Regulatory Framework (25%)	Measure	Score
a) Legislative and Judicial Underpinnings of the Regulatory Framework	A	A
b) Consistency and Predictability of Regulation	Aa	Aa
Factor 2 : Ability to Recover Costs and Earn Returns (25%)		
a) Timeliness of Recovery of Operating and Capital Costs	Aa	Aa
b) Sufficiency of Rates and Returns	A	A
Factor 3 : Diversification (10%)		
a) Market Position	Ba	Ba
b) Generation and Fuel Diversity	Ba	Ba
Factor 4 : Financial Strength (40%)		
a) CFO pre-WC + Interest / Interest (3 Year Avg)	6.9x	Aa
b) CFO pre-WC / Debt (3 Year Avg)	20.9%	Baa
c) CFO pre-WC – Dividends / Debt (3 Year Avg)	14.8%	Baa
d) Debt / Capitalization (3 Year Avg)	47.6%	Baa
Rating:		
Scorecard-Indicated Outcome Before Notching Adjustment		A2
HoldCo Structural Subordination Notching		
a) Scorecard-Indicated Outcome		A2
b) Actual Rating Assigned		

Moody's 12-18 Month Forward View As of Date Published [3]

Measure	Score
A	A
Aa	Aa
Aa	Aa
A	A
Ba	Ba
Ba	Ba
6.5x - 6.7x	Aa
21% - 23%	A
13% - 15%	Baa
45% - 48%	Baa
	A2
0	0
	A2
	A2

[1] All ratios are based on 'Adjusted' financial data and incorporate Moody's Global Standard Adjustments for Non-Financial Corporations.

[2] A of 3/31/2023.

[3] This represents Moody's forward view; not the view of the issuer; and unless noted in the text, does not incorporate significant acquisitions and divestitures

Source: Moody's Investors Service

Appendix

Exhibit 8

Stable Cash Flow and Credit Metrics [1]

CF Metrics	Dec-19	Dec-20	Dec-21	Dec-22	LTM Mar-23
As Adjusted					
FFO	1,819	1,972	2,138	2,213	2,165
+/- Other	-29	79	210	-49	125
CFO Pre-WC	1,791	2,051	2,348	2,164	2,290
+/- ΔWC	-57	-134	-20	-464	-398
CFO	1,734	1,917	2,328	1,700	1,892
- Div	494	539	588	763	668
- Capex	2,218	2,690	3,035	2,642	2,776
FCF	-979	-1,312	-1,295	-1,705	-1,552
(CFO Pre-W/C) / Debt	21.1%	21.7%	23.7%	19.0%	20.2%
(CFO Pre-W/C - Dividends) / Debt	15.3%	16.0%	17.8%	12.3%	14.3%
FFO / Debt	21.4%	20.9%	21.6%	19.4%	19.1%
RCF / Debt	15.6%	15.2%	15.6%	12.7%	13.2%
Revenue	5,224	5,506	5,809	6,397	6,286
Interest Expense	338	355	359	390	406
Net Income	533	708	751	857	755
Total Assets	24,588	26,513	28,405	30,236	30,755
Total Liabilities	17,453	18,443	19,502	20,541	21,142
Total Equity	7,135	8,070	8,903	9,695	9,613

[1] All figures and ratios are calculated using Moody's estimates and standard adjustments. Periods are Financial Year-End unless indicated. LTM = Last Twelve Months

Source: Moody's Financial Metrics

Exhibit 9

Peer Comparison [1]

(In US millions)	DTE Electric Company			Consumers Energy Company			Wisconsin Power and Light Company			Arizona Public Service Company			Northern States Power Company (Minnesota)		
	A2 (Stable)			(P)A3 (Stable)			A3 (Negative)			A3 (Negative)			A2 (Stable)		
	FYE Dec-21	FYE Dec-22	LTM Mar-23	FYE Dec-21	FYE Dec-22	LTM Mar-23	FYE Dec-21	FYE Dec-22	LTM Mar-23	FYE Dec-22	FYE Dec-22	LTM Mar-23	FYE Dec-21	FYE Dec-22	LTM Mar-23
Revenue	5,809	6,397	6,286	7,021	8,151	8,078	1,523	1,856	1,866	3,909	4,462	4,623	5,756	6,684	6,652
CFO Pre-W/C	2,348	2,164	2,290	2,041	2,114	2,045	377	339	341	1,170	1,365	1,426	1,054	2,034	2,091
Total Debt	9,916	11,408	11,322	9,018	10,472	10,487	2,819	3,323	3,390	7,455	7,901	8,639	6,832	7,292	7,505
CFO Pre-W/C + Interest / Interest	7.5x	6.5x	6.6x	7.5x	7.2x	6.6x	4.9x	4.8x	4.7x	5.4x	5.8x	5.9x	5.0x	8.2x	8.2x
CFO Pre-W/C / Debt	23.7%	19.0%	20.2%	22.6%	20.2%	19.5%	13.4%	10.2%	10.1%	15.7%	17.3%	16.5%	15.4%	27.9%	27.9%
CFO Pre-W/C - Dividends / Debt	17.8%	12.3%	14.3%	14.6%	12.8%	12.0%	7.4%	4.9%	4.8%	10.4%	12.1%	11.8%	9.1%	20.2%	20.7%
Debt / Capitalization	46.0%	47.4%	47.3%	43.7%	45.1%	45.0%	44.1%	43.8%	43.0%	45.1%	45.6%	47.4%	41.8%	43.4%	43.8%

[1] All figures & ratios calculated using Moody's estimates & standard adjustments. FYE = Financial Year-End. LTM = Last Twelve Months. RUR* = Ratings under Review, where UPG = for upgrade and DNG = for downgrade

Source: Moody's Financial Metrics

Ratings

Exhibit 10

Category	Moody's Rating
DTE ELECTRIC COMPANY	
Outlook	Stable
Issuer Rating	A2
First Mortgage Bonds	Aa3
Senior Secured	Aa3
Commercial Paper	P-1
PARENT: DTE ENERGY COMPANY	
Outlook	Stable
Sr Unsec Bank Credit Facility	Baa2
Senior Unsecured	Baa2
Jr Subordinate	Baa3
Commercial Paper	P-2

Source: Moody's Investors Service

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CLIENT SERVICES

Americas	1-212-553-1653
Asia Pacific	852-3551-3077
Japan	81-3-5408-4100
EMEA	44-20-7772-5454

DTE Electric Company

DTE Electric Company's (DTEE) rating reflects Fitch Ratings' expectations of stable credit metrics at the low-risk regulated electric utility with a predominately constructive regulatory environment in Michigan. Fitch's assessment of parent DTE Energy Company's (DTE; BBB/Stable) group structure allows up to a two-notch differential between the Long-Term Issuer Default Ratings of DTE and DTEE.

Key Rating Drivers

Supportive Regulatory Environment: Fitch views the regulatory environment for electric utilities in Michigan as mostly constructive from a credit perspective. The regulatory framework allows full pass-through of fuel costs, forward-looking test years and a timely 10-month review period for general rate case resolution. DTEE's authorized ROE of 9.9% compares favorably with industry averages.

Rate Case Resolution: Fitch believes the rate order issued in December is credit-supportive and reflects a constructive regulatory environment in Michigan. The approved revenue requirement increase of \$368 million is based on the 9.9% ROE and 50% equity ratio on a rate base of \$22.15 billion.

The Michigan Public Service Commission also approved a two-year investment recovery mechanism for recovery of a \$350 million investment in the distribution grid to improve reliability and resilience over 2024–2025. The increase in base rates is partially offset by a \$300 million reduction in fuel costs, resulting in an average customer bill increase of about \$2.50 per month.

DTEE filed its last rate case in February 2023, for a \$619 million rate increase effective Dec. 1, 2023. DTEE requested an ROE of 10.25% based on a 50% equity ratio on a rate base of \$22.6 billion. About 50% of the requested rate increase was related to the rate base growth and \$102 million was related to the expected lower residential sales margins, reflecting the post-pandemic hybrid work environment. Residential sales declined about 3% in 2022 on a weather-normalized basis and continue to decline in 2023 but remain above pre-pandemic levels.

2022 Rate Case: Fitch believes December 2022 rate order was modestly negative from a credit rating point of view. The approved revenue requirement increase was lower than Fitch's estimate, driven primarily by the differences in residential sales forecasts. DTEE was able to offset most near-term pressures with cost reductions.

In November 2022, the commission authorized a \$30.6 million increase in base rates, with ROE maintained at 9.9% and a 50% equity ratio. This compares with the company's request of \$367 million. DTEE's residential sales forecast, which projected a further decline and return of residential sale to pre-pandemic levels in 2023, was supported by the commission staff and the administrative law judge. The commission adopted a higher residential sales forecast in its final decision, resulting in approximately \$100 million of lower revenue requirement than the company requested.

Elevated Capex Driven by Decarbonization: DTEE plans to invest approximately \$20 billion in 2024–2028, with \$7 billion for clean generation and other projects, \$9 billion for distribution infrastructure and \$4 billion for base infrastructure. This is a \$2 billion increase compared with the previous plan for 2023–2027. The increase is driven by additional investments in cleaner generation. The investments will result in FCF negative in the intermediate term. Fitch expects the capital program will be funded with internal cash flow, debt and equity support to maintain DTEE's balanced capital structure.

Ratings

Long-Term IDR	A–
Short-Term IDR	F2
Senior Secured Debt – Long-Term Rating	A+
Outlook	
Long-Term Foreign-Currency IDR	Stable

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2035 Climate Vulnerability Signal: 60

Applicable Criteria

Parent and Subsidiary Linkage Rating Criteria (June 2023)

Corporate Rating Criteria – Effective from 28 October 2022 to 3 November 2023 (October 2022)

Corporates Recovery Ratings and Instrument Ratings Criteria – Effective from 9 April 2021 to 13 October 2023 (April 2021)

Corporate Hybrids Treatment and Notching Criteria (November 2020)

Related Research

Global Corporates Macro and Sector Forecasts

North American Utilities, Power & Gas Outlook 2024 (December 2023)

North American Utilities, Power & Gas Dashboard: Third-Quarter 2023 (October 2023)

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IRP's Decarbonization Path: DTEE is retiring coal-fired generation and replacing it with a mix of natural gas and renewable resources to meet its environmental targets. The 2022 integrated resource plan (IRP), approved in 2023, aims for a carbon dioxide (CO₂) emissions reduction of 85% in 2032, 90% by 2040 and net-zero emissions by 2050. At DTEE, 15.4 gigawatts (GW) of renewables and 1.8GW of storage are expected to be added to the current 3GW and 1.1GW, respectively, by 2042.

Belle River coal plant will be retired two years ahead of plan by 2026, and converted to a natural gas peaker plant. The Monroe unit retirement is also being accelerated, with two units retiring in 2028 and the remainder in 2032, compared with a previous retirement date of 2035. All other coal units have been retired. DTE retired 11 of its 17 coal-fired units. The additional investment plans are supported by the recent passage of the Inflation Reduction Act.

Solid Financial Profile: Fitch believes DTEE's credit metrics are consistent with its rating. Debt maturities are manageable, and DTEE is expected to have continued access to capital markets. Fitch calculated FFO leverage at 3.6x in 2022, which is supportive of the ratings. FFO leverage is expected to modestly increase in 2023 above the negative sensitivity threshold due to the lower than expected rate case outcomes from a 2021 rate filing and storm costs. Following a recent supportive rate case decision, FFO leverage is expected to improve and average 4.0x through 2025.

Parent-Subsidiary Linkage: There is parent-subsidiary linkage between DTE and its rated subsidiaries. Fitch determines DTE's Standalone Credit Profile (SCP) based on consolidated metrics. Fitch considers DTEE to have a stronger SCP than DTE. As such, Fitch has followed the stronger subsidiary path. Emphasis is placed on DTEE's status as a regulated entity. Legal ring-fencing is considered porous, given the general protections afforded by economic regulation. Access and control are evaluated as porous.

DTE centrally manages the treasury function for all of its entities and is the sole source of equity. However, DTEE issues its own short- and long-term debt. Due to the linkage considerations, Fitch will limit the difference between ratings at DTE and DTEE to two notches.

Financial Summary

(\$ mil.)	2019	2020	2021	2022
Gross revenue	5,224	5,506	5,809	6,397
EBITDA	2,128	2,341	2,431	2,567
Cash flow from operations (Fitch-defined)	1,705	1,901	2,310	1,684
Debt	7,691	8,409	9,200	10,173
FFO interest coverage (x)	6.0	6.7	6.5	8.0
FFO leverage (x)	4.2	3.9	4.2	3.6

Sources: Fitch Ratings, Fitch Solutions

Rating Derivation Relative to Peers

DTEE compares favorably with regulated single-state peers Consumers Energy Company (A-/Stable) and Northern States Power Company-Wisconsin (NSP; A-/Stable). All three operate in supportive regulatory environments with favorable recovery mechanisms. DTEE and Consumers operate in Michigan and are similarly sized, while NSP is smaller and based in Wisconsin. However, Consumers also operates a gas utility, while DTE and NSP are both electric utilities. DTEE's financial profile compares favorably with Consumers' but less so with NSP's. Fitch forecasts FFO leverage to average 4.0x at DTEE through 2025, largely in line with 4.1x at Consumers and modestly worse than a projected 3.9x through 2026 at NSP.

Rating Sensitivities

Factors that Could, Individually or Collectively, Lead to Positive Rating Action/Upgrade

- Sustained FFO leverage of 3.5x or better.

Factors that Could, Individually or Collectively, Lead to Negative Rating Action/Downgrade

- A one-notch downgrade at DTE;
- An adverse change in Michigan's regulatory environment;
- Sustained FFO leverage greater than 4.5x.

Liquidity and Debt Structure

Adequate Liquidity: DTEE's liquidity position remains adequate. It had approximately \$234 million of available liquidity at Sept. 30, 2023, consisting of cash and amounts available under revolving credit facilities. DTEE's \$800 million revolver matures in October 2028. DTEE was in compliance with the covenant of 65% debt/capitalization, as defined under the credit agreement, at 54% at Sept. 30, 2023. Debt maturities remain manageable, given the history of successful refinancing, and Fitch expects DTEE to have continued access to capital markets.

ESG Considerations

The highest level of ESG credit relevance is a score of '3', unless otherwise disclosed in this section. A score of '3' means ESG issues are credit-neutral or have only a minimal credit impact on the entity, either due to their nature or the way in which they are being managed by the entity. Fitch's ESG Relevance Scores are not inputs in the rating process; they are an observation on the relevance and materiality of ESG factors in the rating decision. For more information on Fitch's ESG Relevance Scores, visit <https://www.fitchratings.com/topics/esg/products#esg-relevance-scores>.

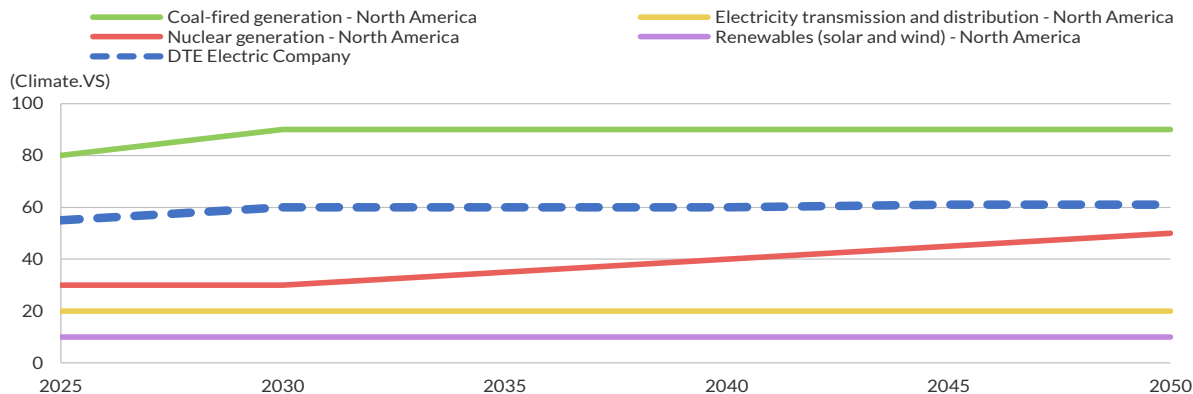
Climate Vulnerability Considerations

Fitch uses Climate Vulnerability Signals (Climate.VS) as a screening tool to identify sectors and Fitch-rated issuers that are potentially most exposed to credit-relevant climate transition risks and, therefore, require additional consideration of these risks in rating reviews. Climate.VS range from 0 (lowest risk) to 100 (highest risk). For more information on Climate.VS, see Fitch's [Corporate Rating Criteria](#).

DTEE's Electric's Climate.VS in 2035 is high at 60, based on the 2021 rate base composition. It reflects DTEE's ownership of its coal and gas generation fleet, partially offset by transmission and distribution operations and nuclear generation. Most of the coal generation will be retired and replaced with renewable resources and the company expects to retire all of its coal generation by 2025. For further information on how Fitch perceives climate-related risks in the utilities sector, see [Utilities - Long-Term Climate Vulnerability Signals Update](#).

Climate.VS Evolution

As of Dec. 31, 2022



Source: Fitch Ratings

Liquidity and Debt Maturities

Liquidity Analysis

(\$ mil.)	12/31/21	12/31/22
Total cash and cash equivalents	9	24
Short-term investments	0	0
Less not readily available cash and cash equivalents	0	9
Fitch-defined readily available cash and cash equivalents	9	15
Availability under committed lines of credit	347	232
Total liquidity	356	247
LTM EBITDA after associates and minorities	2,431	2,567
LTM FCF	-1,295	-1,705

Source: Fitch Ratings, Fitch Solutions, DTE Electric Company

Scheduled Debt Maturities

(\$ mil.)	12/31/22
2023	837
2024	440
2025	391
2026	219
2027	5
Thereafter	8,490
Total	10,382

Note: Includes securitization bonds of \$215 million.

Source: Fitch Ratings, Fitch Solutions, DTE Electric Company

Key Assumptions**Fitch's Key Assumptions Within Our Rating Case for the Issuer Include**

- A constructive regulatory environment in Michigan with ROEs for DTEE in line with those currently approved;
- Capital program in line with management projections;
- A rate case filing in 2024;
- Securitization debt and revenue are excluded from the FFO and debt calculations;
- Capital structure commensurate with regulatory structure.

Financial Data

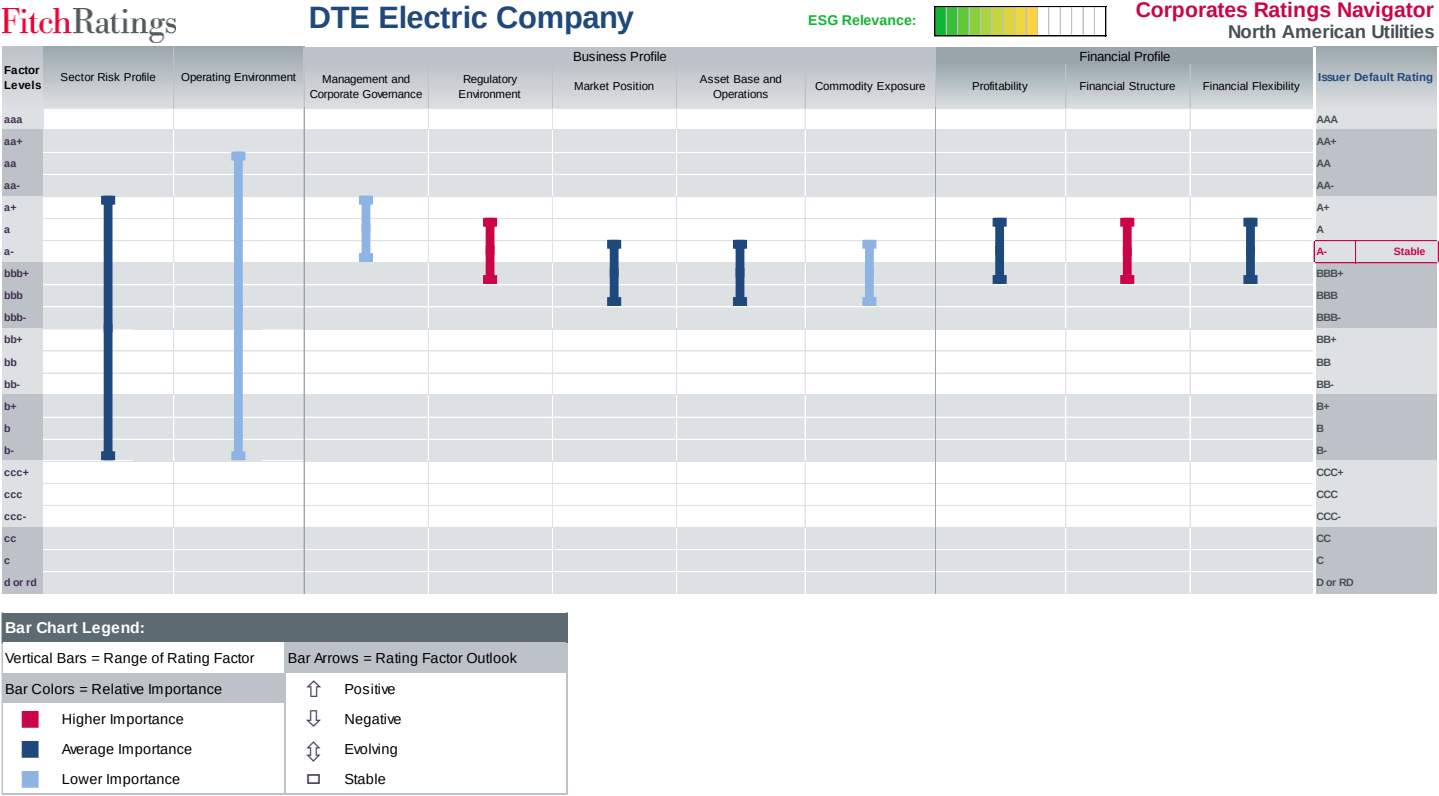
(\$ mil.)	2019	2020	2021	2022
Summary income statement				
Gross revenue	5,224	5,506	5,809	6,397
Revenue growth (%)	-1.4	5.4	5.5	10.1
EBITDA before income from associates	2,128	2,341	2,431	2,567
EBITDA margin (%)	40.7	42.5	41.8	40.1
EBITDA after associates and minorities	2,128	2,341	2,431	2,567
EBITDAR	2,149	2,359	2,431	2,567
EBITDAR margin (%)	41.1	42.8	41.8	40.1
EBIT	1,126	1,265	1,270	1,327
EBIT margin (%)	21.6	23.0	21.9	20.7
Gross interest expense	-323	-341	-346	-381
Pretax income including associate income/loss	854	887	970	981
Summary balance sheet				
Readily available cash and equivalents	12	16	9	15
Debt	7,691	8,409	9,200	10,173
Lease-adjusted debt	7,859	8,553	9,200	10,173
Net debt	7,679	8,393	9,191	10,158
Summary cash flow statement				
EBITDA	2,128	2,341	2,431	2,567
Cash interest paid	-305	-325	-332	-350
Cash tax	-46	-14	-5	33
Dividends received less dividends paid to minorities (inflow/outflow)	—	—	—	—
Other items before FFO	-247	-155	-252	205
FFO	1,532	1,849	1,842	2,463
FFO margin (%)	29.3	33.6	31.7	38.5

(\$ mil.)	2019	2020	2021	2022
Change in working capital	173	52	468	-779
CFO (Fitch-defined)	1,705	1,901	2,310	1,684
Total non-operating/nonrecurring cash flow	—	—	—	—
Capex	-2,200	-2,674	-3,017	-2,626
Capital intensity (capex/revenue) (%)	42.1	48.6	51.9	41.1
Common dividends	-494	-539	-588	-763
FCF	-989	-1,312	-1,295	-1,705
FCF margin (%)	-18.9	-23.8	-22.3	-26.7
Net acquisitions and divestitures	—	—	—	4
Other investing and financing cash flow items	-41	-21	-36	-63
Net debt proceeds	844	701	769	1,170
Net equity proceeds	180	636	555	600
Total change in cash	-6	4	-7	6
Leverage ratios (x)				
EBITDA leverage	3.6	3.6	3.8	4.0
EBITDA net leverage	3.6	3.6	3.8	4.0
EBITDAR leverage	3.7	3.6	3.8	4.0
EBITDAR net leverage	3.7	3.6	3.8	4.0
EBITDAR net fixed-charge coverage	6.6	6.9	7.3	7.5
FFO adjusted leverage	4.2	3.9	4.2	3.6
FFO adjusted net leverage	4.2	3.9	4.2	3.6
FFO leverage	4.2	3.9	4.2	3.6
FFO net leverage	4.2	3.9	4.2	3.6
Calculations for forecast publication				
Capex, dividends, acquisitions and other items before FCF	-2,694	-3,213	-3,605	-3,385
FCF after acquisitions and divestitures	-989	-1,312	-1,295	-1,701
FCF margin after net acquisitions (%)	-18.9	-23.8	-22.3	-26.6
Coverage ratios (x)				
FFO interest coverage	6.0	6.7	6.5	8.0
FFO fixed-charge coverage	5.7	6.4	6.5	8.0
EBITDAR fixed-charge coverage	6.6	6.9	7.3	7.3
EBITDA interest coverage	7.0	7.2	7.3	7.3
Additional metrics (%)				
CFO-capex/debt	-6.4	-9.2	-7.7	-9.3
CFO-capex/net debt	-6.4	-9.2	-7.7	-9.3
CFO/capex	77.5	71.1	76.6	64.1

CFO – Cash flow from operations

Source: Fitch Ratings, Fitch Solutions

Ratings Navigator



Operating Environment

aa+	Economic Environment	aa	Very strong combination of countries where economic value is created and where assets are located.
aa	Financial Access	aa	Very strong combination of issuer specific funding characteristics and of the strength of the relevant local financial market.
	Systemic Governance	aa	Systemic governance (eg rule of law, corruption, government effectiveness) of the issuer's country of incorporation consistent with 'aa'.
b-			
ccc+			

Management and Corporate Governance

aa-	Management Strategy	a	Coherent strategy and good track record in implementation.
a+	Governance Structure	aa	No record of governance failing. Experienced board exercising effective check and balance to management. No ownership concentration.
a	Group Structure	a	Group structure shows some complexity but mitigated by transparent reporting.
a-	Financial Transparency	a	High quality and timely financial reporting.
bbb+			

Regulatory Environment

a+	Degree of Transparency and Predictability	a	Track record of transparent and predictable regulation.
a	Timeliness of Cost Recovery	a	Minimal lag to recover capital and operating costs.
a-	Trend in Authorized ROEs	a	Above-average authorized ROE.
bbb+	Mechanisms Available to Stabilize Cash Flows	bbb	Revenues partially insulated from variability in consumption.
bbb	Mechanisms Supportive of Creditworthiness	bbb	Effective regulatory ring-fencing or minimum creditworthiness requirements.

Market Position

a	Market Structure	a	Well-established market structure with complete transparency in price-setting mechanisms.
a-	Consumption Growth Trend	bbb	Customer and usage growth in line with industry averages.
bbb+	Customer Mix	a	Favorable customer mix.
bbb	Geographic Location	bbb	Beneficial location or reasonable locational diversity.
bbb-	Supply Demand Dynamics	bbb	Moderately favorable outlook for prices/rates.

Asset Base and Operations

a	Diversity of Assets	bbb	Good quality and/or reasonable scale diversified assets.
a-	Operations Reliability and Cost Competitiveness	a	Track record of reliable, low-cost operations.
bbb+	Exposure to Environmental Regulations	bbb	Limited or manageable exposure to environmental regulations.
bbb	Capital and Technological Intensity of Capex	bbb	Moderate reinvestments requirements in established technologies.
bbb-			

Commodity Exposure

a	Ability to Pass Through Changes in Fuel	bbb	Limited exposure to changes in commodity costs.
a-	Underlying Supply Mix	bbb	Low variable costs and moderate flexibility of supply.
bbb+	Hedging Strategy	a	Highly captive supply and customer base.
bbb			
bbb-			

Profitability

a+	Free Cash Flow	bbb	Structurally neutral to negative FCF across the investment cycle.
a	Volatility of Profitability	a	Higher stability and predictability of profits relative to utility peers.
a-			
bbb+			
bbb			

Financial Structure

a+	EBITDA Leverage	bbb	3.75x
a	FFO Leverage	a	3.5x
a-			
bbb+			
bbb			

Financial Flexibility

a+	Financial Discipline	a	Clear commitment to maintain a conservative policy with only modest deviations allowed.
a	Liquidity	bbb	One-year liquidity ratio above 1.25x. Well-spread maturity schedule of debt but funding may be less diversified.
a-	FFO Interest Coverage	a	5.5x
bbb+			
bbb			

How to Read This Page: The left column shows the three-notch band assessment for the overall Factor, illustrated by a bar. The right column breaks down the Factor into Sub-Factors, with a description appropriate for each Sub-Factor and its corresponding category.

Credit-Relevant ESG Derivation

				Overall ESG	
DTE Electric Company has 12 ESG potential rating drivers				key driver	0 issues
▶	Emissions from operations	0	issues	5	
▶	Fuel use to generate energy and serve load	0	issues	4	
▶	Impact of waste from operations	12	issues	3	
▶	Plants' and networks' exposure to extreme weather	2	issues	2	
▶	Product affordability and access	0	issues	1	
▶	Quality and safety of products and services; data security	0	issues	1	

Showing top 6 issues

For further details on Credit-Relevant ESG scoring, see page 3.



DTE Electric Company

Corporates Ratings Navigator
North American Utilities

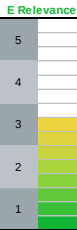
Credit-Relevant ESG Derivation

DTE Electric Company has 12 ESG potential rating drivers				ESG Relevance to Credit Rating	
➡ DTE Electric Company has exposure to emissions regulatory risk but this has very low impact on the rating.	key driver	0	issues	5	
➡ DTE Electric Company has exposure to energy productivity risk but this has very low impact on the rating.	driver	0	issues	4	
➡ DTE Electric Company has exposure to waste & impact management risk but this has very low impact on the rating.	potential driver	12	issues	3	
➡ DTE Electric Company has exposure to extreme weather events but this has very low impact on the rating.					
➡ DTE Electric Company has exposure to access/affordability risk but this has very low impact on the rating.	not a rating driver	2	issues	2	
➡ DTE Electric Company has exposure to customer accountability risk but this has very low impact on the rating.		0	issues	1	

Show ing top 6 issues

Environmental (E) Relevance Scores

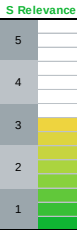
General Issues	E Score	Sector-Specific Issues	Reference
GHG Emissions & Air Quality	3	Emissions from operations	Asset Base and Operations; Commodity Exposure; Regulation; Profitability
Energy Management	3	Fuel use to generate energy and serve load	Asset Base and Operations; Commodity Exposure; Profitability
Water & Wastewater Management	2	Water used by hydro plants or by other generation plants, also effluent management	Asset Base and Operations; Regulation; Profitability
Waste & Hazardous Materials Management; Ecological Impacts	3	Impact of waste from operations	Asset Base and Operations; Regulation; Profitability
Exposure to Environmental Impacts	3	Plants' and networks' exposure to extreme weather	Asset Base and Operations; Regulation; Profitability



How to Read This Page
ESG relevance scores range from 1 to 5 based on a 15-level color gradation. Red (5) is most relevant to the credit rating and green (1) is least relevant.
The Environmental (E), Social (S) and Governance (G) tables break out the ESG general issues and the sector-specific issues that are most relevant to each industry group. Relevance scores are assigned to each sector-specific issue, signaling the credit-relevance of the sector-specific issues to the issuer's overall credit rating. The Criteria Reference column highlights the factor(s) within which the corresponding ESG issues are captured in Fitch's credit analysis. The vertical color bars are visualizations of the frequency of occurrence of the highest constituent relevance scores. They do not represent an aggregate of the relevance scores or aggregate ESG credit relevance.
The Credit-Relevant ESG Derivation table's far right column is a visualization of the frequency of occurrence of the highest ESG relevance scores across the combined E, S and G categories. The three columns to the left of ESG Relevance to Credit Rating summarize rating relevance and impact to credit from ESG issues. The box on the far left identifies any ESG Relevance Sub-factor issues that are drivers or potential drivers of the issuer's credit rating (corresponding with scores of 3, 4 or 5) and provides a brief explanation for the relevance score. All scores of '4' and '5' are assumed to reflect a negative impact unless indicated with a '+' sign for positive impact.
Classification of ESG issues has been developed from Fitch's sector ratings criteria. The General Issues and Sector-Specific Issues draw on the classification standards published by the United Nations Principles for Responsible Investing (PRI), the Sustainability Accounting Standards Board (SASB), and the World Bank.

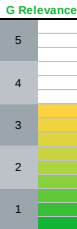
Social (S) Relevance Scores

General Issues	S Score	Sector-Specific Issues	Reference
Human Rights, Community Relations, Access & Affordability	3	Product affordability and access	Asset Base and Operations; Regulation; Profitability; Financial Structure
Customer Welfare - Fair Messaging, Privacy & Data Security	3	Quality and safety of products and services; data security	Regulation; Profitability
Labor Relations & Practices	3	Impact of labor negotiations and employee (dis)satisfaction	Asset Base and Operations; Profitability
Employee Wellbeing	2	Worker safety and accident prevention	Profitability, Asset Base and Operations
Exposure to Social Impacts	3	Social resistance to major projects that leads to delays and cost increases	Asset Base and Operations; Profitability



Governance (G) Relevance Scores

General Issues	G Score	Sector-Specific Issues	Reference
Management Strategy	3	Strategy development and implementation	Management and Corporate Governance
Governance Structure	3	Board independence and effectiveness; ownership concentration	Management and Corporate Governance
Group Structure	3	Complexity, transparency and related-party transactions	Management and Corporate Governance
Financial Transparency	3	Quality and timing of financial disclosure	Management and Corporate Governance

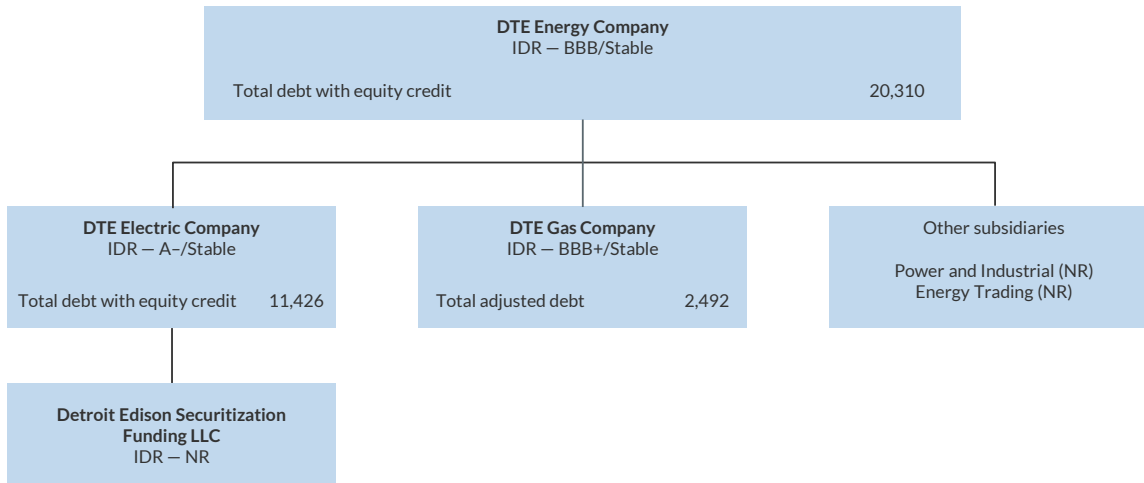


CREDIT-RELEVANT ESG SCALE	
How relevant are E, S and G issues to the overall credit rating?	
5	Highly relevant, a key rating driver that has a significant impact on the rating on an individual basis. Equivalent to "higher" relative importance within Navigator.
4	Relevant to rating, not a key rating driver but has an impact on the rating in combination with other factors. Equivalent to "moderate" relative importance within Navigator.
3	Minimally relevant to rating, either very low impact or actively managed in a way that results in no impact on the entity rating. Equivalent to "lower" relative importance within Navigator.
2	Irrelevant to the entity rating but relevant to the sector.
1	Irrelevant to the entity rating and irrelevant to the sector.

Simplified Group Structure Diagram

Organizational Structure

\$ mil., as of Sept. 30, 2023



IDR – Issuer Default Rating. NR – Not rated.

Source: Fitch Ratings, Fitch Solutions, DTE Energy Company

Peer Financial Summary

Company	Issuer Default Rating	Financial statement date	Gross revenue (\$ mil.)	FFO (\$ mil.)	FFO interest coverage (x)	FFO leverage (x)	EBITDA leverage (x)
DTE Electric Company	A–						
	A–	2022	6,397	2,463	8.0	3.6	4.0
	A–	2021	5,809	1,842	6.5	4.2	3.8
	A–	2020	5,506	1,849	6.7	3.9	3.6
Northern States Power Company-Wisconsin	A–						
	A–	2022	1,201	270	7.4	3.7	3.2
	A–	2021	1,105	254	7.4	3.7	3.4
	A–	2020	974	221	6.8	3.5	3.1
Consumers Energy Company	A–						
	A–	2022	8,116	2,052	7.9	4.4	4.5
	A–	2021	6,987	1,974	7.8	3.9	4.0
	A–	2020	6,155	1,239	5.1	5.4	3.8

Source: Fitch Ratings, Fitch Solutions

Fitch Adjusted Financials

(\$ mil., as of Dec 31, 2022)	Notes and formulas	Standardized values	Fair value and other debt adjustments	Lease treatment	Other adjustments	Adjusted values
Income statement summary						
Revenue		6,397	–	–	–	6,397
EBITDA	(a)	2,573	–	–	-6	2,567
Depreciation and amortization		-1,246	–	–	6	-1,240
EBIT		1,327	–	–	–	1,327

Balance sheet summary

Debt	(b)	10,298	91	-1	-215	10,173
Of which other off-balance-sheet debt		—	—	—	—	—
Lease-equivalent debt		—	—	—	—	—
Lease-adjusted debt		10,298	91	-1	-215	10,173
Readily available cash and equivalents	(c)	15	—	—	—	15
Not readily available cash and equivalents		9	—	—	—	9

Cash flow summary

EBITDA	(a)	2,573	—	—	-6	2,567
Dividends received from associates less dividends paid to minorities	(d)	—	—	—	—	—
Interest paid	(e)	-350	—	—	—	-350
Interest received	(f)	8	—	—	—	8
Preferred dividends paid	(g)	—	—	—	—	—
Cash tax paid		33	—	—	—	33
Other items before FFO		205	—	—	—	205
FFO	(h)	2,469	—	—	-6	2,463
Change in working capital		-779	—	—	—	-779
CFO	(i)	1,690	—	—	-6	1,684
Non-operating/nonrecurring cash flow		—	—	—	—	—
Capex	(j)	-2,626	—	—	—	-2,626
Common dividends paid		-763	—	—	—	-763
FCF		-1,699	—	—	-6	-1,705

Gross leverage (x)

EBITDA leverage	b / (a+d)	4.0	—	—	—	4.0
FFO leverage	b / (h-e-f-g)	3.7	—	—	—	3.6
(CFO-capex)/debt (%)	(i+j) / b	-9.0	—	—	—	-9.3

Net leverage (x)

EBITDA net leverage	(b-c) / (a+d)	4.0	—	—	—	4.0
FFO net leverage	(b-c) / (h-e-f-g)	3.7	—	—	—	3.6
(CFO-capex)/net debt (%)	(i+j) / (b-c)	-9.0	—	—	—	-9.3

Coverage (x)

EBITDA interest coverage	(a+d) / (-e)	7.4	—	—	—	7.3
FFO interest coverage	(h-e-f-g) / (-e-g)	8.0	—	—	—	8.0

CFO – Cash flow from operations. Note: The standardized items presented above are based on Fitch's taxonomy for the given sector and region. Reported items may not match the Fitch taxonomy, but they are captured into corresponding lines accordingly. Debt includes other off-balance-sheet debt.

Source: Fitch Ratings, Fitch Solutions, DTE Electric Company

SOLICITATION & PARTICIPATION STATUS

For information on the solicitation status of the ratings included within this report, please refer to the solicitation status shown in the relevant entity's summary page of the Fitch Ratings website.

For information on the participation status in the rating process of an issuer listed in this report, please refer to the most recent rating action commentary for the relevant issuer, available on the Fitch Ratings website.

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STATE OF MICHIGAN
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

* * * * *

In the matter of the Application of	)	
DTE ELECTRIC COMPANY	)	
for authority to increase its rates, amend	)	
its rate schedules and rules governing the	)	Case No. U-21534
distribution and supply of electric energy, and	)	
<u>for miscellaneous accounting authority</u>	)	

PROOF OF SERVICE

Jillian Bowden, being duly sworn, deposes and says that on July 26, 2024, A.D., she
emailed a copy of the attached MPSC Testimony and Exhibits to the persons as shown on
the attached list.


Jillian Bowden

Subscribed and sworn to before me
this 26th day of July 2024.

**Michelle L.
Conarton**

 Digitally signed by Michelle
L. Conarton
Date: 2024.07.26 14:28:09
-04'00'

Michelle L. Conarton, Notary Public
State of Michigan, County of Ingham
Acting in the County of Eaton
My Commission Expires: 6-18-2026

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