

STATE OF MICHIGAN
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

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In the matter of the application of)
CONSUMERS ENERGY COMPANY)
for authority to increase its rates for the)
distribution of natural gas and for other relief.)
_____)

Case No. U-21806

QUALIFICATIONS AND DIRECT TESTIMONY OF
PAUL R. AUSUM
MICHIGAN PUBLIC SERVICE COMMISSION

April 23, 2025

**QUALIFICATIONS OF PAUL R. AUSUM
CASE NUMBER U-21806
PART I**

1 Q. Please state your name and business address.

2 A. My name is Paul R. Ausum, and my business address is 7109 W. Saginaw
3 Highway, Lansing, Michigan 48917.

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

5 A. I am employed as an Economic Analyst in the Resource Adequacy & Forecasting
6 Section of the Energy Resources Division of the Michigan Public Service
7 Commission (MPSC or Commission).

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

9 A. I am responsible for the analysis of sales and peak demand forecasts in cases that
10 come before the Commission, including rate cases and integrated resource plans
11 (IRPs). This analysis leads to MPSC Staff (Staff) positions and
12 recommendations.

13 Q. Please outline your educational background.

14 A. I graduated with a Bachelor of Science degree in Economics from Oakland
15 University in December 2018. From November 2019 to August 2022, I worked
16 as an Economic Analyst in the Act 304 & Sales Forecasting Section of the Energy
17 Operations Division of the Commission. In this role, I conducted analysis of Gas
18 Cost Recovery (GCR) and Power Supply Cost Recovery (PSCR) cases and
19 provided analysis and input that led to Staff positions in rate cases. In August of
20 2022, I assumed my current position. I have attended the Accounting and
21 Ratemaking course presented by Michigan State University's Institute of Public
22 Utilities (IPU) in February 2021, as well as the Fundamentals course in the
23 theory, principles, and practice of economic regulation of utility companies put on

QUALIFICATIONS OF PAUL R. AUSUM
CASE NUMBER U-21806
PART I

1 by IPU as part of its Annual Regulatory Studies Program in August 2021. In June
2 2023, I attended IPU's Power Grid School on the Engineering and Economics of
3 the Supply Chain for Power, and, in May 2024, I attended a course on the
4 Fundamentals of Long-Term Load Forecasting held by Electric Utility
5 Consultants Incorporated (EUCI).

6 Q. Have you previously provided testimony before the Commission?

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

<u>Case Number</u>	<u>Company</u>	<u>Type of Case</u>
8 U-20541	Consumers Energy-Gas	GCR Plan
9 U-20542	Consumers Energy-Gas	GCR Reconciliation
10 U-20642	DTE Energy-Gas	Rate Case
11 U-20650	Consumers Energy-Gas	Rate Case
12 U-20816	DTE Energy-Gas	GCR Plan
13 U-20817	DTE Energy-Gas	GCR Reconciliation
14 U-20822	SEMCO Energy	GCR Plan
15 U-20823	SEMCO Energy	GCR Reconciliation
16 U-20836	DTE Energy-Electric	Rate Case
17 U-20940	DTE Energy-Gas	Rate Case
18 U-21046	Alpena Power Company	PSCR Plan
19 U-21064	DTE Energy-Gas	GCR Plan
20 U-21070	SEMCO Energy	GCR Plan
21 U-21148	Consumers Energy-Gas	Rate Case
22 U-21193	DTE Energy-Electric	Integrated Resource Plan

**QUALIFICATIONS OF PAUL R. AUSUM
CASE NUMBER U-21806
PART I**

	<u>Case Number</u>	<u>Company</u>	<u>Type of Case</u>
1			
2	U-21255	Alpena Power Company	PSCR Plan
3	U-21297	DTE Energy-Electric	Rate Case
4	U-21308	Consumers Energy-Gas	Rate Case
5	U-21461	Indiana Michigan Power	Rate Case
6	U-21540	Michigan Gas Utilities Corp.	Rate Case
7	U-21585	Consumers Energy-Electric	Rate Case

DIRECT TESTIMONY OF PAUL R. AUSUM
CASE NUMBER U-21806
PART II

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

2 A. The purpose of my testimony is to present recommendations to the Commission
3 with regard to the forecast of natural gas sales (deliveries) used as a rate
4 determinant in the application submitted by Consumers Energy Company
5 (Consumers or the Company).

6 Q. Are you sponsoring any exhibits?

7 A. Yes. I am sponsoring one exhibit, comprised of an audit response and
8 accompanying data provided by the Company.

9 **Exhibit** **Description**

10 S-23 Staff Audit Response SA-CE-035

11 Q. What are you recommending to the Commission regarding the sales forecast in
12 this case?

13 A. I am recommending that the Commission order the Company to include all raw
14 data and inputs used to construct the deliveries and customer count forecast
15 models, which includes the information contained within Exhibit S-23, in all
16 future gas rate case filings. The data contained within the exhibit was used by the
17 Company (as inputs) to construct the econometric models used to forecast natural
18 gas deliveries. In each subsequent rate case, the Company should provide all of
19 the input data used to build the sales forecasting models.

20 Q. Why should the Company include the model input data in subsequent rate case
21 filings?

22 A. It is crucial that Staff has access to the data used to build the forecasts, in order to
23 better understand the modeling choices and methodologies used to forecast

DIRECT TESTIMONY OF PAUL R. AUSUM
CASE NUMBER U-21806
PART II

1 natural gas deliveries. If the Company includes the most current iteration of the
2 data found in my exhibit with each rate case application, Staff will not have to
3 procure the data via audit as was done in this instant case, saving time and
4 allowing for more effective analysis of the forecast. Taken together with the other
5 sales forecast specific filing attachments, Staff will be able to effectively recreate
6 the Company's forecast models, in order to ensure that the forecast of natural gas
7 deliveries is the most accurate estimate of future consumption to be used as a rate
8 determinant.

9 Q. Does this conclude your testimony at this time?

10 A. Yes.

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Case No. U-21806

EXHIBIT OF
ENERGY RESOURCES DIVISION
MICHIGAN PUBLIC SERVICE COMMISSION

April 23, 2025

U21806-SA-CE-035

Requested By: Paul R. Ausum (PRA-1 - 3)

Respondent: Mustafa Ahmed

Date of Response: 1/14/2025

Page **1** of **1**

Question:

3. In Excel, please provide all raw data and inputs used to construct the deliveries and customer count forecast models.

Response:

Please see U21806-SA-CE-035_Ahmed_Attachment_1 and refer to Part III attachments 027, 028 and 029 for additional model data.

Michigan Public Service Commission
Consumers Energy Company
Staff Audit Response SA-CE-035

Historic MMcf Deliveries

Year	Month	RESSLSCYCL	RESTRNCYCL	COMSLSCYCL	COMTRNCYCL	INDSLSCYCL	INDTRNCYCL	LBWLCYCL	INTSLSCYCL	INTRNCYCL	TOTSLSCAL	TOTTRNCAL
2001	1	35,336	408	11,369	3,213	3,246	6,989	0	56	91	42,140	11,040
2001	2	27,382	403	9,380	2,980	2,529	6,998	0	48	7	37,765	9,057
2001	3	27,753	332	8,666	2,582	2,041	6,081	0	44	0	34,198	8,884
2001	4	19,597	322	6,255	2,434	1,578	6,095	0	39	1	16,227	6,440
2001	5	8,763	188	2,670	1,474	653	4,141	0	34	89	8,211	4,572
2001	6	5,998	103	1,565	985	392	3,355	0	15	119	5,933	4,222
2001	7	3,628	82	1,174	833	299	3,207	0	23	144	4,887	4,003
2001	8	3,073	61	911	715	293	2,503	0	72	424	5,139	4,672
2001	9	3,354	63	1,040	804	394	3,176	0	29	652	6,816	4,146
2001	10	7,305	79	2,000	922	499	3,140	0	92	162	16,057	6,687
2001	11	12,531	163	3,750	1,611	940	4,911	0	-64	230	19,307	7,051
2001	12	17,160	188	5,285	1,843	1,267	5,086	0	54	114	34,047	7,505
2002	1	29,821	258	9,080	2,395	2,089	5,192	0	45	83	37,227	9,802
2002	2	24,562	347	8,001	2,740	1,923	6,499	0	47	38	33,687	8,906
2002	3	25,139	308	7,932	2,528	1,847	6,130	0	45	5	35,243	8,784
2002	4	20,803	308	6,660	2,441	1,530	5,778	0	56	20	17,585	6,815
2002	5	11,933	197	3,452	1,850	831	4,526	0	27	1	15,124	5,822
2002	6	7,340	154	2,112	1,379	477	4,297	0	28	0	5,016	4,065
2002	7	3,503	64	1,048	778	287	2,877	0	43	30	4,959	3,646
2002	8	3,035	56	985	756	293	2,606	0	24	185	4,908	3,860
2002	9	3,296	58	1,054	761	301	2,830	0	25	172	5,440	3,793
2002	10	5,583	62	1,636	847	444	2,915	0	25	66	18,187	6,645
2002	11	16,734	159	4,998	1,743	1,226	5,108	0	34	23	29,911	7,502
2002	12	26,753	236	8,436	2,245	1,812	5,182	0	45	0	41,539	8,232
2003	1	32,584	350	10,390	2,966	2,453	6,422	0	69	2	51,076	11,989
2003	2	34,250	419	11,156	3,329	2,730	7,914	0	110	0	44,949	9,289
2003	3	30,250	367	10,047	2,948	2,263	6,674	0	58	0	32,735	8,823
2003	4	18,639	280	5,958	2,448	1,490	5,506	0	35	0	19,437	6,811
2003	5	11,057	211	3,398	1,806	795	4,508	0	26	0	10,622	5,195
2003	6	6,793	120	1,926	1,063	439	3,404	0	19	0	5,948	4,059
2003	7	3,692	76	1,151	781	282	2,885	0	18	0	4,855	3,277
2003	8	3,203	62	1,123	764	268	2,232	0	43	0	4,710	3,252
2003	9	3,343	56	973	708	339	2,624	0	18	0	5,468	4,408
2003	10	7,454	69	2,081	915	500	2,922	0	19	0	15,343	5,988
2003	11	13,052	156	3,965	1,554	949	4,299	0	30	0	25,382	5,902
2003	12	22,661	184	7,244	1,935	1,613	4,220	0	45	0	36,816	9,110
2004	1	31,729	327	10,190	2,874	2,291	6,398	0	50	0	52,390	10,137
2004	2	34,099	385	11,186	3,190	2,524	6,415	0	46	0	37,822	9,704
2004	3	23,958	333	7,913	2,711	1,804	6,535	0	41	0	30,087	8,347
2004	4	18,141	269	5,748	2,290	1,348	5,629	0	36	0	16,679	6,326
2004	5	9,665	167	2,921	1,524	636	4,173	0	15	0	9,162	4,275
2004	6	5,035	81	1,629	923	403	3,195	0	37	0	5,256	3,797
2004	7	3,707	59	1,137	819	311	2,874	0	16	0	4,500	3,064
2004	8	3,367	46	952	687	310	2,212	0	16	0	4,424	3,789
2004	9	3,475	51	1,085	787	339	2,957	0	31	0	5,854	3,504
2004	10	5,905	52	1,678	875	451	2,669	0	11	0	14,253	4,992
2004	11	12,071	110	3,804	1,426	859	4,053	0	28	0	24,854	7,080
2004	12	22,924	186	7,343	2,089	1,696	4,825	0	45	0	41,135	8,474
2005	1	31,844	273	10,322	2,765	2,277	5,723	0	52	0	47,926	9,259
2005	2	30,815	289	10,220	2,961	2,375	5,992	0	40	0	35,685	8,821
2005	3	27,887	262	9,220	2,631	2,032	5,780	0	48	0	35,010	8,344
2005	4	17,527	235	5,777	2,392	1,348	5,462	0	38	0	16,296	5,750
2005	5	11,311	129	3,338	1,489	843	3,859	0	25	0	11,508	4,805
2005	6	5,616	87	1,756	1,083	454	3,201	0	97	0	4,892	3,655
2005	7	3,463	49	1,110	837	350	2,823	0	83	90	5,240	3,139
2005	8	2,991	37	972	753	324	2,209	0	184	164	4,873	3,792
2005	9	3,145	37	1,038	782	361	2,719	0	143	210	5,946	3,541
2005	10	4,633	39	1,455	785	420	2,785	0	102	11	13,479	4,360
2005	11	11,733	73	3,556	1,220	883	3,282	0	53	14	24,701	6,437
2005	12	25,917	141	8,270	2,034	1,837	4,411	0	96	151	41,876	8,205
2006	1	26,928	208	9,236	2,654	2,100	5,513	0	64	0	34,418	7,446
2006	2	24,666	185	8,182	2,413	1,847	4,749	0	44	0	36,411	8,120
2006	3	24,824	199	8,230	2,524	1,816	5,400	0	43	0	29,372	7,331
2006	4	16,510	165	5,355	2,114	1,195	4,805	0	33	24	14,419	4,910
2006	5	8,066	87	2,554	1,269	592	3,219	0	25	0	8,881	4,458
2006	6	5,132	66	1,579	1,078	428	3,304	0	20	11	5,185	3,403
2006	7	3,367	32	1,122	687	301	2,549	0	66	2	5,023	3,143
2006	8	3,016	30	1,009	671	301	2,233	0	81	186	4,841	3,571
2006	9	3,235	46	1,103	736	354	2,709	0	25	150	4,763	3,761
2006	10	7,067	39	2,004	830	554	2,942	0	22	0	18,161	5,567
2006	11	15,327	91	4,864	1,523	1,028	4,240	0	34	0	23,169	6,631
2006	12	19,665	123	6,697	1,976	1,467	4,682	0	33	32	31,845	6,888
2007	1	23,291	132	7,670	2,169	1,648	4,637	0	67	0	40,560	7,973
2007	2	32,835	164	10,561	2,642	2,162	5,278	0	107	2	44,414	9,212
2007	3	27,482	184	9,680	2,771	2,167	5,868	0	57	1	28,189	6,908
2007	4	17,237	124	5,817	2,034	1,109	4,944	0	44	1	20,272	5,681
2007	5	9,581	91	3,091	1,539	682	3,743	0	55	0	7,491	4,157
2007	6	4,454	43	1,428	946	400	2,987	0	42	12	4,355	3,406
2007	7	3,174	26	1,051	711	231	2,614	0	23	5	4,736	3,191

Michigan Public Service Commission
Consumers Energy Company
Staff Audit Response SA-CE-035

Historic MMcf Deliveries

Year	Month	RESSLSCYC	RESTRNCYC	COMSLSCYC	COMTRNCYC	INDSLSCYC	INDTRNCYC	LBWLCYC	INTSLSCYC	INTRNCYC	TOTSLSCAL	TOTTRNCAL
2007	8	2,968	28	997	781	246	2,384	0	30	0	5,000	3,481
2007	9	3,184	25	1,056	826	263	2,613	0	49	24	4,903	3,511
2007	10	3,757	28	1,240	797	292	2,714	0	51	0	10,008	4,570
2007	11	9,160	51	2,967	1,197	624	3,478	0	31	10	26,261	6,716
2007	12	22,681	111	7,299	2,101	1,540	4,409	0	47	19	37,719	6,900
2008	1	27,644	167	9,083	2,552	1,929	4,776	0	64	0	40,404	8,076
2008	2	26,998	194	9,235	2,886	1,976	4,982	0	56	0	40,469	8,539
2008	3	27,360	195	9,277	2,950	1,968	5,476	0	69	0	32,361	7,288
2008	4	21,386	159	7,087	2,416	1,530	4,305	0	51	0	15,110	5,154
2008	5	9,403	93	3,118	1,509	692	3,376	0	37	0	8,774	4,877
2008	6	6,257	62	1,856	1,095	420	2,790	0	57	0	6,031	2,777
2008	7	4,278	34	1,439	840	319	3,109	0	17	0	4,094	3,583
2008	8	3,081	28	1,055	650	222	1,590	0	4	0	5,997	2,618
2008	9	3,194	26	1,081	745	374	2,574	0	35	0	4,061	3,685
2008	10	4,262	34	1,435	888	418	2,800	0	11	0	14,520	4,717
2008	11	11,920	73	3,632	1,432	864	3,497	0	35	0	25,917	5,197
2008	12	25,032	113	8,188	2,055	1,613	3,482	0	52	0	42,115	7,329
2009	1	32,564	212	11,066	3,068	2,296	4,433	0	38	0	47,537	8,055
2009	2	29,756	207	9,737	3,144	2,042	4,391	0	85	0	34,340	6,532
2009	3	24,759	160	7,889	2,601	1,664	3,747	0	33	0	27,842	6,341
2009	4	17,322	165	5,639	2,425	1,138	3,603	0	53	0	17,025	4,944
2009	5	9,211	94	2,955	1,713	581	2,828	0	12	0	7,429	3,243
2009	6	5,136	6	1,440	749	308	1,117	0	26	0	5,516	2,714
2009	7	2,944	78	1,070	1,047	223	2,822	0	20	0	4,676	3,092
2009	8	3,256	32	1,079	792	231	1,946	0	41	0	5,091	2,685
2009	9	2,875	31	930	760	216	2,297	0	40	0	5,413	3,640
2009	10	5,668	36	1,658	943	342	2,724	0	20	0	14,953	5,002
2009	11	11,542	83	3,422	1,510	657	3,493	0	22	0	19,894	5,129
2009	12	19,646	113	6,381	1,966	1,208	3,419	0	24	0	36,055	7,183
2010	1	30,696	192	9,978	3,098	1,978	4,443	0	46	0	41,493	7,970
2010	2	27,029	207	8,644	3,022	1,757	4,543	0	36	0	33,211	7,553
2010	3	21,368	182	6,960	2,671	1,453	4,348	0	58	0	22,135	6,707
2010	4	12,981	149	3,962	2,236	819	4,085	0	29	0	11,307	4,568
2010	5	8,180	88	2,417	1,353	463	2,802	0	10	0	8,580	3,532
2010	6	4,618	58	1,339	999	277	2,518	0	22	0	5,304	3,548
2010	7	3,128	37	988	949	215	2,653	0	19	45	4,161	3,666
2010	8	2,744	30	909	840	247	2,505	0	54	278	3,816	3,800
2010	9	3,005	31	982	925	229	2,832	0	18	1	5,902	3,940
2010	10	4,724	37	1,498	1,011	309	2,960	0	11	0	11,255	4,603
2010	11	10,711	67	3,058	1,368	613	3,216	0	10	0	22,481	6,069
2010	12	22,909	137	6,985	2,632	1,393	4,171	0	33	0	39,106	8,402
2011	1	30,545	211	9,748	3,407	2,047	4,722	0	52	2	44,123	8,817
2011	2	28,708	227	9,314	3,308	1,932	5,033	0	27	0	34,166	8,722
2011	3	23,342	199	7,753	2,716	1,719	4,632	0	50	0	30,345	7,706
2011	4	18,669	183	5,884	2,582	1,253	4,652	0	31	0	19,272	4,509
2011	5	11,199	119	3,367	1,751	681	3,367	0	28	0	8,686	4,669
2011	6	5,234	73	1,554	1,191	351	2,900	0	25	0	4,456	4,030
2011	7	3,254	39	1,043	996	251	2,768	0	32	40	5,197	2,716
2011	8	2,718	31	981	874	246	2,377	0	38	152	3,886	4,244
2011	9	3,037	34	997	1,049	234	2,917	0	20	46	5,398	4,026
2011	10	4,784	41	1,463	1,048	334	2,875	0	15	4	12,442	5,290
2011	11	10,509	76	3,255	1,620	653	3,561	0	24	0	20,290	6,157
2011	12	19,211	123	6,044	2,656	1,271	3,962	0	33	0	30,685	7,467
2012	1	25,490	171	8,042	3,103	1,642	4,303	0	23	0	35,811	8,090
2012	2	23,841	199	7,595	3,369	1,590	4,881	0	40	0	31,159	7,825
2012	3	19,330	171	6,265	2,919	1,237	4,515	0	30	0	17,060	6,421
2012	4	11,905	109	3,635	2,079	722	3,726	0	47	0	14,942	5,166
2012	5	7,905	102	2,458	1,690	446	3,313	0	16	0	5,843	4,405
2012	6	3,941	52	1,243	1,259	249	3,121	0	10	0	5,426	4,007
2012	7	2,873	35	998	967	213	2,689	0	13	1	4,152	3,663
2012	8	2,634	32	880	1,064	225	2,618	0	29	46	4,271	3,960
2012	9	2,883	31	991	1,013	279	2,828	0	11	32	5,675	4,077
2012	10	5,397	36	1,696	1,359	305	2,894	0	3	3	13,749	5,617
2012	11	11,357	87	3,615	1,958	674	4,002	0	18	4	23,278	7,694
2012	12	18,892	137	6,039	2,616	1,149	4,163	0	25	0	30,523	6,400
2013	1	26,508	149	8,359	2,734	1,535	4,123	0	51	0	38,582	8,669
2013	2	27,400	222	8,896	3,473	1,665	5,401	0	24	0	36,247	8,285
2013	3	25,172	196	8,294	2,983	1,525	4,846	0	36	0	33,145	7,025
2013	4	20,564	174	6,753	2,870	1,233	4,738	0	40	1	18,617	7,242
2013	5	10,068	134	3,317	2,218	620	4,047	0	27	0	7,193	4,939
2013	6	4,980	55	1,550	1,330	329	2,947	27	20	0	5,301	3,806
2013	7	3,150	23	1,030	1,050	222	2,564	110	15	7	4,517	3,673
2013	8	2,888	33	985	1,080	255	2,566	194	25	60	4,417	4,197
2013	9	3,110	42	1,057	1,038	250	2,797	121	14	89	5,509	4,459
2013	10	4,361	36	1,406	1,301	311	2,931	272	16	64	12,184	6,153
2013	11	12,234	76	3,897	2,080	658	3,851	293	10	9	28,035	7,083
2013	12	23,990	134	7,721	2,791	1,348	4,204	440	35	0	39,396	8,877
2014	1	33,212	206	10,775	3,632	1,748	4,980	654	62	11	49,034	10,852
2014	2	32,014	270	10,886	4,214	2,000	5,924	685	28	21	40,456	10,786

Michigan Public Service Commission
Consumers Energy Company
Staff Audit Response SA-CE-035

Historic MMcf Deliveries

Year	Month	RESSLSCYC	RESTRNCYC	COMSLSCYC	COMTRNCYC	INDSLSCYC	INDTRNCYC	LBWLCYC	INTLSLSCYC	INTRNCYC	TOTSLSCAL	TOTTRNCAL
2014	3	30,477	229	10,278	3,627	1,812	5,182	524	43	19	37,511	8,854
2014	4	20,499	191	7,075	3,251	1,466	4,847	419	38	0	17,422	6,487
2014	5	10,653	126	3,506	2,131	713	3,765	364	10	0	8,606	5,114
2014	6	4,817	62	1,613	1,462	321	3,039	352	31	0	5,695	4,327
2014	7	3,240	32	1,152	1,143	217	2,743	308	4	0	4,801	4,054
2014	8	3,004	33	1,050	1,157	199	2,832	275	32	43	4,170	4,706
2014	9	3,232	29	1,072	1,138	211	2,771	413	7	68	5,903	4,721
2014	10	5,352	39	1,582	1,376	297	3,309	291	35	5	12,444	6,580
2014	11	12,026	75	3,695	1,948	584	3,942	360	9	0	29,848	7,496
2014	12	21,348	132	7,145	2,830	1,175	4,222	493	31	9	32,710	8,540
2015	1	29,566	180	9,904	3,325	1,631	4,901	535	50	0	44,151	11,245
2015	2	31,349	232	10,658	3,923	1,799	5,487	543	47	24	48,360	9,188
2015	3	31,061	235	10,883	3,826	1,944	5,551	634	41	21	30,907	8,487
2015	4	18,123	167	6,125	3,011	1,164	5,048	482	14	3	14,933	7,647
2015	5	9,507	118	3,186	1,957	537	3,487	300	38	0	8,115	3,597
2015	6	4,694	48	1,580	1,311	253	2,798	285	16	0	5,241	4,044
2015	7	3,183	37	1,088	1,198	202	2,853	314	17	1	4,190	4,563
2015	8	2,822	31	1,064	1,148	198	2,632	364	7	82	4,485	4,456
2015	9	2,938	28	1,051	1,162	207	2,827	375	30	59	4,394	4,617
2015	10	4,311	31	1,505	1,268	254	3,159	360	2	0	11,342	6,206
2015	11	9,114	66	2,912	1,712	484	3,768	445	19	0	19,269	6,140
2015	12	17,755	100	5,700	2,270	982	3,900	468	11	0	25,752	7,281
2016	1	25,254	141	8,234	2,699	1,326	4,170	485	42	0	39,295	9,552
2016	2	24,262	200	8,224	3,419	1,399	5,020	630	47	0	33,249	9,109
2016	3	21,621	183	7,465	3,021	1,274	4,818	518	17	0	22,968	7,360
2016	4	16,483	147	5,437	2,552	874	4,463	556	22	0	18,951	6,570
2016	5	10,045	109	3,297	2,136	544	3,730	269	15	3	8,953	4,905
2016	6	4,769	65	1,614	1,568	281	3,058	438	4	63	4,319	4,548
2016	7	2,979	32	1,070	1,275	198	2,744	289	3	0	3,793	3,968
2016	8	2,510	26	957	1,183	219	2,334	299	12	25	3,606	4,555
2016	9	2,648	27	1,001	1,265	258	2,834	363	1	44	5,429	4,717
2016	10	3,521	28	1,256	1,286	243	3,006	399	13	21	10,261	5,728
2016	11	9,194	58	2,914	1,759	489	3,576	346	5	81	18,515	6,437
2016	12	20,588	105	6,641	2,331	1,069	4,021	420	18	0	36,533	9,045
2017	1	28,205	175	9,687	3,224	1,617	4,765	559	28	0	37,373	8,357
2017	2	23,584	189	8,101	3,376	1,366	4,905	456	21	0	26,766	7,871
2017	3	20,047	143	6,804	2,766	1,099	4,147	390	19	0	30,466	8,533
2017	4	16,039	158	5,560	2,907	920	4,533	559	14	0	13,554	5,470
2017	5	9,003	83	2,976	1,820	466	3,043	472	15	0	9,383	4,912
2017	6	4,620	68	1,596	1,697	278	3,074	286	11	29	4,926	4,323
2017	7	2,959	31	1,052	1,289	212	2,703	345	8	32	3,521	4,163
2017	8	2,668	27	934	1,278	193	2,537	320	14	7	3,885	4,865
2017	9	3,176	29	1,136	1,323	196	2,931	309	7	54	5,843	4,651
2017	10	3,522	29	1,274	1,283	350	3,025	235	4	94	10,305	5,531
2017	11	10,925	60	3,564	1,857	533	3,556	205	5	0	25,530	7,248
2017	12	20,553	131	6,815	2,682	1,085	4,441	400	18	0	39,928	9,693
2018	1	34,877	181	11,805	3,368	1,777	4,544	536	35	0	43,931	9,232
2018	2	27,709	228	9,819	3,944	1,667	5,692	558	24	0	33,604	8,026
2018	3	21,994	168	7,730	3,102	1,243	4,713	436	15	0	29,314	9,031
2018	4	20,897	153	7,270	2,991	1,123	4,485	498	12	0	23,038	7,056
2018	5	10,461	132	3,742	2,515	660	3,980	346	13	0	6,306	4,791
2018	6	3,962	49	1,366	1,531	269	3,096	404	21	26	3,980	4,860
2018	7	2,864	29	1,066	1,227	225	2,767	344	6	6	4,543	4,199
2018	8	2,632	26	969	1,240	173	2,661	313	6	10	4,332	4,551
2018	9	2,781	25	1,019	1,265	191	3,071	361	4	4	4,897	4,925
2018	10	4,645	27	1,482	1,301	283	3,028	254	7	19	15,300	6,385
2018	11	14,104	81	4,545	2,202	684	4,348	487	6	0	28,954	8,531
2018	12	23,378	144	8,143	2,933	1,296	4,625	434	16	0	31,950	8,245
2019	1	25,864	151	8,970	2,945	1,389	4,348	530	18	0	45,245	9,921
2019	2	32,329	224	11,334	4,066	1,665	5,447	596	25	0	36,461	8,698
2019	3	26,636	182	9,568	3,391	1,528	4,788	512	22	0	32,887	8,680
2019	4	17,636	157	6,278	2,991	960	4,721	298	16	0	17,681	5,967
2019	5	10,730	110	3,627	2,398	554	3,745	345	8	0	9,033	5,906
2019	6	5,061	62	1,750	1,709	282	3,095	478	3	10	6,105	4,607
2019	7	3,123	30	1,108	1,276	199	2,666	457	8	3	4,030	4,169
2019	8	2,608	26	988	1,310	177	2,702	372	20	1	3,873	4,921
2019	9	2,797	23	1,031	1,275	173	2,835	491	13	7	4,346	4,423
2019	10	4,262	26	1,495	1,343	220	2,845	227	12	20	12,681	6,111
2019	11	13,250	67	4,374	1,948	619	3,663	361	19	6	30,124	7,614
2019	12	20,719	122	7,275	2,728	1,023	4,340	479	21	0	31,317	8,412
2020	1	23,592	156	8,514	3,076	1,223	4,545	470	25	0	35,523	8,277
2020	2	23,849	173	8,467	3,273	1,249	4,908	542	26	0	35,088	8,501
2020	3	24,108	156	8,580	3,039	1,241	4,619	463	28	0	24,950	7,179
2020	4	16,793	130	5,442	2,647	795	4,090	514	21	0	17,172	6,314

Historic MMcf Deliveries

Year	Month	RESSLSCYC	RESTRNCYC	COMSLSCYC	COMTRNCYC	INDSLSCYC	INDTRNCYC	LBWLCYC	INTSLSCYC	INTRNCYC	TOTSLSCAL	TOTTRNCAL
2020	5	13,124	111	3,780	2,016	582	2,429	395	8	0	11,351	3,449
2020	6	6,126	64	1,688	1,487	287	2,291	477	7	14	5,201	3,862
2020	7	3,121	34	936	1,093	200	2,496	307	13	0	4,428	3,797
2020	8	2,720	24	876	1,384	182	2,463	434	13	17	3,718	4,614
2020	9	3,106	24	1,006	1,264	262	2,641	432	13	61	5,549	4,913
2020	10	5,204	33	1,626	1,379	260	3,081	456	15	0	14,328	6,609
2020	11	11,208	70	3,690	1,946	484	3,764	461	15	2	20,192	6,784
2020	12	18,192	104	6,134	2,349	859	3,833	475	21	0	33,880	7,628
2021	1	24,807	162	8,467	3,060	1,230	4,431	578	29	0	37,627	9,296
2021	2	27,025	176	9,440	3,287	1,293	4,853	618	26	2	38,231	9,349
2021	3	25,193	188	8,973	3,455	1,487	4,902	578	33	16	22,474	7,274
2021	4	14,073	135	4,748	2,756	721	4,275	532	22	4	14,976	6,580
2021	5	10,512	90	3,357	2,053	505	3,208	483	15	1	9,203	4,892
2021	6	5,620	54	1,798	1,524	268	2,876	257	14	8	5,139	4,204
2021	7	2,989	35	1,083	1,315	195	2,759	460	14	24	4,156	4,238
2021	8	2,765	26	1,011	1,231	207	2,492	400	13	24	4,109	4,233
2021	9	2,754	25	980	1,322	190	2,885	471	13	74	4,170	5,173
2021	10	3,362	28	1,236	1,363	187	2,952	398	14	5	9,367	5,428
2021	11	9,228	48	3,206	1,670	496	3,313	321	15	9	25,566	7,416
2021	12	19,192	129	6,714	2,706	925	4,401	694	24	0	30,194	8,367
2022	1	24,344	144	8,624	2,947	1,152	4,281	646	29	0	46,626	10,121
2022	2	30,208	207	10,782	3,823	1,470	5,325	908	33	0	36,580	9,097
2022	3	26,604	181	9,593	3,452	1,287	4,910	1,131	62	0	28,799	9,208
2022	4	19,128	151	6,775	3,071	928	4,750	1,192	23	0	19,861	7,586
2022	5	12,665	108	4,424	2,318	631	3,688	946	21	0	6,878	6,013
2022	6	4,823	52	1,744	1,541	378	3,092	340	11	0	6,761	4,091
2022	7	2,974	30	1,060	1,279	207	2,879	609	12	78	4,896	4,934
2022	8	2,676	23	1,007	1,156	282	2,543	1,339	14	107	3,787	6,274
2022	9	2,759	26	1,014	1,321	242	2,998	1,471	36	148	5,106	5,749
2022	10	4,697	29	1,563	1,346	241	3,019	774	13	35	13,803	5,864
2022	11	10,117	66	3,556	1,951	482	3,785	480	18	0	23,085	7,517
2022	12	19,033	116	6,873	2,576	899	4,329	810	23	0	33,616	8,376
2023	1	24,812	166	9,054	3,240	1,176	4,730	627	28	31	33,369	9,168
2023	2	24,142	163	8,816	3,307	1,141	4,662	618	22	10	30,735	8,288
2023	3	23,250	154	8,533	3,078	1,130	4,426	622	23	0	29,613	8,402
2023	4	17,299	149	6,227	3,015	869	4,599	1,057	21	0	15,278	7,522
2023	5	10,933	88	3,881	2,074	511	3,279	1,001	11	0	9,331	5,386
2023	6	4,975	61	1,725	1,698	266	3,703	864	6	0	5,443	5,909
2023	7	3,132	29	1,100	1,233	173	2,853	1,034	2	0	4,518	4,660
2023	8	2,747	25	1,016	1,180	181	2,489	1,342	2	2	4,498	5,728
2023	9	2,954	26	1,084	1,277	181	2,934	1,389	1	0	4,742	5,462
2023	10	4,200	27	1,524	1,257	216	2,874	1,127	2	0	12,528	6,505
2023	11	9,931	65	3,475	1,860	435	3,534	1,045	6	0	25,331	7,127
2023	12	17,902	118	6,507	2,691	819	4,225	1,150	12	0	24,307	8,464
2024	1	21,136	119	8,095	2,671	989	4,146	886	12	0	39,456	9,627
2024	2	25,514	187	9,362	3,606	1,289	5,036	961	17	5	27,556	8,461
2024	3	18,725	134	6,791	2,813	862	4,231	609	14	0	24,174	7,610

Historic Customer Counts

Year	Month	RESSLSCST	RESTRNCST	COMSLSCST	COMTRNCST	INDSLSCST	INDTRNCST	LBWLCST
2001	1	1,495,152	164	108,385	2,064	7,714	542	0
2001	2	1,496,956	164	108,583	2,067	7,718	553	0
2001	3	1,498,191	164	108,692	2,069	7,721	539	0
2001	4	1,498,717	164	108,568	2,067	7,679	541	0
2001	5	1,497,654	164	108,224	2,151	7,656	535	0
2001	6	1,496,393	166	107,939	2,160	7,638	553	0
2001	7	1,494,985	166	107,512	2,080	7,519	553	0
2001	8	1,493,934	166	107,478	2,154	7,574	553	0
2001	9	1,495,151	166	107,447	2,086	7,544	555	0
2001	10	1,499,941	166	107,904	2,089	7,564	553	0
2001	11	1,505,675	163	108,663	2,090	7,592	553	0
2001	12	1,509,905	163	109,229	2,123	7,598	555	0
2002	1	1,513,923	162	109,907	2,154	7,614	555	0
2002	2	1,515,947	162	110,180	2,122	7,598	554	0
2002	3	1,517,525	161	110,213	2,113	7,579	560	0
2002	4	1,518,262	161	110,300	1,986	7,576	565	0
2002	5	1,517,477	160	110,002	1,984	7,524	563	0
2002	6	1,516,402	124	109,694	1,975	7,489	561	0
2002	7	1,515,375	107	109,358	1,977	7,461	558	0
2002	8	1,515,028	106	109,130	1,975	7,448	563	0
2002	9	1,515,937	192	109,025	1,965	7,402	562	0
2002	10	1,519,318	193	109,435	1,975	7,408	559	0
2002	11	1,526,195	194	111,291	1,972	7,435	560	0
2002	12	1,531,090	195	111,235	1,984	7,443	560	0
2003	1	1,534,031	194	112,077	2,020	7,458	561	0
2003	2	1,535,991	194	111,858	1,970	7,442	560	0
2003	3	1,537,279	194	111,994	1,963	7,397	543	0
2003	4	1,537,295	208	112,118	1,996	7,392	557	0
2003	5	1,536,063	208	111,886	1,979	7,340	544	0
2003	6	1,534,478	206	111,680	1,981	7,346	542	0
2003	7	1,532,722	207	111,401	1,965	7,303	545	0
2003	8	1,531,386	207	111,249	1,965	7,266	534	0
2003	9	1,532,049	205	111,133	1,959	7,294	534	0
2003	10	1,536,106	205	111,648	1,957	7,301	536	0
2003	11	1,541,972	208	112,512	1,978	7,309	538	0
2003	12	1,547,580	207	113,286	1,999	7,289	544	0
2004	1	1,550,791	207	113,807	1,999	7,360	555	0
2004	2	1,553,076	207	114,164	1,986	7,308	538	0
2004	3	1,553,692	219	114,386	1,970	7,301	539	0
2004	4	1,552,871	219	114,399	1,974	7,252	546	0
2004	5	1,551,070	214	114,218	1,971	7,240	540	0
2004	6	1,548,579	219	113,902	1,972	7,192	539	0
2004	7	1,546,544	201	113,861	1,966	7,174	535	0
2004	8	1,546,824	201	113,790	1,955	7,143	531	0
2004	9	1,548,356	201	114,129	1,967	7,110	531	0
2004	10	1,551,983	198	115,075	1,992	7,115	532	0
2004	11	1,557,287	198	116,985	1,991	7,130	528	0
2004	12	1,562,462	197	118,461	1,996	7,145	527	0
2005	1	1,565,491	202	119,562	1,996	7,145	526	0
2005	2	1,567,359	236	120,011	1,994	7,131	526	0
2005	3	1,568,549	221	120,012	1,986	7,123	525	0
2005	4	1,569,768	220	119,720	1,986	7,119	522	0
2005	5	1,568,103	219	119,164	1,975	7,120	521	0
2005	6	1,566,231	219	118,518	1,971	7,085	522	0
2005	7	1,564,407	140	118,044	1,967	7,042	521	0
2005	8	1,564,234	130	117,357	1,952	7,020	519	0
2005	9	1,563,543	128	117,267	1,951	7,007	513	0
2005	10	1,565,455	128	118,067	1,951	7,003	514	0
2005	11	1,571,017	126	119,819	1,939	7,037	514	0
2005	12	1,577,358	125	121,314	1,928	7,081	513	0
2006	1	1,580,676	125	121,358	1,926	7,101	511	0
2006	2	1,582,578	125	120,859	1,928	7,095	523	0
2006	3	1,583,568	125	120,399	1,928	7,074	498	0
2006	4	1,582,879	125	119,760	1,871	7,068	498	0
2006	5	1,580,293	120	119,203	1,862	7,050	497	0
2006	6	1,577,766	118	118,413	1,765	7,012	497	0
2006	7	1,575,442	116	117,852	1,762	6,974	491	0
2006	8	1,573,806	116	117,760	1,767	6,959	487	0
2006	9	1,570,975	116	117,294	1,772	6,949	488	0
2006	10	1,574,698	116	117,878	1,782	6,953	492	0
2006	11	1,580,578	117	119,096	1,822	6,995	499	0
2006	12	1,584,666	116	119,936	1,869	6,982	496	0
2007	1	1,586,700	113	120,003	1,870	6,991	489	0
2007	2	1,588,771	113	120,141	1,848	6,996	488	0
2007	3	1,589,381	113	120,054	1,849	6,996	485	0
2007	4	1,587,750	113	119,716	1,865	6,987	484	0
2007	5	1,584,370	113	119,131	1,885	6,958	484	0
2007	6	1,580,197	113	118,495	1,874	6,922	476	0

Historic Customer Counts

Year	Month	RESSLSCST	RESTRNCST	COMSLSCST	COMTRNCST	INDSLSCST	INDTRNCST	LBWLCST
2007	7	1,576,689	113	117,990	1,881	6,888	478	0
2007	8	1,574,344	115	117,818	1,863	6,871	477	0
2007	9	1,570,000	114	117,304	1,857	6,925	474	0
2007	10	1,570,026	114	117,494	1,854	6,948	476	0
2007	11	1,574,561	114	118,529	1,861	6,988	472	0
2007	12	1,580,586	114	119,703	1,906	7,014	473	0
2008	1	1,582,575	121	120,034	1,915	7,034	473	0
2008	2	1,583,353	121	120,280	1,931	7,038	476	0
2008	3	1,583,736	121	120,370	1,928	7,033	479	0
2008	4	1,582,295	121	120,145	1,917	7,022	474	0
2008	5	1,577,897	121	119,535	1,916	6,989	469	0
2008	6	1,572,981	121	118,904	1,919	6,953	460	0
2008	7	1,574,891	121	117,048	1,880	6,701	459	0
2008	8	1,565,670	125	116,636	1,908	6,798	459	0
2008	9	1,567,158	103	117,341	1,907	6,870	465	0
2008	10	1,577,953	102	118,523	1,903	6,967	457	0
2008	11	1,581,716	103	119,050	1,901	7,060	468	0
2008	12	1,584,134	103	119,374	1,950	7,060	463	0
2009	1	1,576,651	103	119,102	1,971	7,022	474	0
2009	2	1,574,168	103	118,722	1,997	7,048	475	0
2009	3	1,575,497	103	117,813	2,016	7,016	474	0
2009	4	1,569,632	105	118,419	2,047	7,105	475	0
2009	5	1,580,959	104	118,966	2,061	7,133	485	0
2009	6	1,576,442	104	118,626	2,067	7,131	480	0
2009	7	1,573,617	103	117,928	2,077	7,112	473	0
2009	8	1,571,176	102	117,585	2,089	7,099	484	0
2009	9	1,570,774	106	117,580	2,106	7,102	483	0
2009	10	1,569,452	102	117,082	2,183	7,027	481	0
2009	11	1,575,400	103	118,236	2,206	7,041	480	0
2009	12	1,577,181	143	118,308	2,216	7,039	477	0
2010	1	1,584,023	143	119,206	2,235	7,055	491	0
2010	2	1,584,201	144	119,357	2,253	7,052	488	0
2010	3	1,584,652	144	119,165	2,324	7,051	487	0
2010	4	1,580,497	145	118,643	2,292	6,994	488	0
2010	5	1,577,076	145	118,041	2,297	6,952	486	0
2010	6	1,574,222	146	117,634	2,307	6,927	484	0
2010	7	1,570,104	146	117,093	2,300	6,904	486	0
2010	8	1,567,050	147	116,675	2,344	6,869	484	0
2010	9	1,567,174	144	116,387	2,344	6,852	485	0
2010	10	1,571,698	145	116,738	2,359	6,862	485	0
2010	11	1,575,097	145	116,948	2,376	6,833	484	0
2010	12	1,582,433	146	118,425	2,427	6,905	486	0
2011	1	1,584,646	148	118,858	2,431	6,874	486	0
2011	2	1,583,706	145	118,870	2,426	6,861	484	0
2011	3	1,584,374	145	118,927	2,428	6,844	489	0
2011	4	1,583,306	145	118,658	2,512	6,802	488	0
2011	5	1,582,097	148	118,444	2,472	6,766	492	0
2011	6	1,578,279	146	117,961	2,480	6,714	495	0
2011	7	1,574,658	146	117,529	2,474	6,667	494	0
2011	8	1,573,205	146	117,217	2,477	6,651	491	0
2011	9	1,572,967	146	117,205	2,470	6,626	498	0
2011	10	1,575,852	146	117,579	2,478	6,624	493	0
2011	11	1,581,316	147	118,452	2,606	6,631	502	0
2011	12	1,583,617	154	118,970	2,581	6,602	507	0
2012	1	1,585,033	152	119,325	2,595	6,579	506	0
2012	2	1,587,367	154	119,671	2,605	6,575	514	0
2012	3	1,585,563	152	119,434	2,599	6,541	520	0
2012	4	1,582,901	152	118,882	2,606	6,503	520	0
2012	5	1,581,905	152	118,898	2,634	6,487	535	0
2012	6	1,580,081	152	118,465	2,645	6,449	528	0
2012	7	1,577,298	152	117,989	2,658	6,415	536	0
2012	8	1,577,212	152	118,124	2,708	6,396	536	0
2012	9	1,576,938	151	117,906	2,720	6,378	538	0
2012	10	1,581,122	152	118,381	2,746	6,348	535	0
2012	11	1,584,312	152	118,982	2,748	6,310	541	0
2012	12	1,585,747	152	119,307	2,731	6,264	534	0
2013	1	1,590,393	153	120,249	2,724	6,244	534	0
2013	2	1,592,346	153	120,332	2,734	6,190	537	0
2013	3	1,592,235	153	119,904	2,738	6,124	537	0
2013	4	1,592,087	153	119,921	2,762	6,090	539	0
2013	5	1,590,248	152	119,686	2,824	6,066	538	0
2013	6	1,584,988	153	117,681	2,866	5,993	550	1
2013	7	1,588,254	153	119,197	2,858	6,017	550	1
2013	8	1,585,519	152	119,173	2,892	5,980	556	1
2013	9	1,586,106	152	118,707	2,869	5,947	564	1
2013	10	1,588,157	152	118,892	2,867	5,921	555	1
2013	11	1,588,095	151	119,053	2,858	5,868	550	1
2013	12	1,594,444	152	120,496	2,845	5,851	565	1

Historic Customer Counts

Year	Month	RESSLSCST	RESTRNCST	COMSLSCST	COMTRNCST	INDSLSCST	INDTRNCST	LBWLCST
2014	1	1,598,539	156	121,247	2,872	5,837	564	1
2014	2	1,597,287	155	121,612	2,870	5,819	558	1
2014	3	1,594,284	157	121,330	2,882	5,789	557	1
2014	4	1,595,420	157	120,714	2,899	5,721	556	1
2014	5	1,598,645	156	121,444	2,894	5,746	557	1
2014	6	1,593,880	158	120,547	2,899	5,710	558	1
2014	7	1,597,530	156	120,849	2,904	5,731	561	1
2014	8	1,589,150	155	119,797	2,914	5,656	562	1
2014	9	1,590,905	156	119,693	2,899	5,636	560	1
2014	10	1,593,847	152	120,259	2,897	5,617	564	1
2014	11	1,595,904	153	120,961	2,913	5,561	568	1
2014	12	1,601,343	154	122,408	2,868	5,585	569	1
2015	1	1,603,929	155	122,718	2,863	5,542	574	1
2015	2	1,605,049	155	122,995	2,872	5,529	572	1
2015	3	1,607,219	155	123,190	2,867	5,530	571	1
2015	4	1,607,633	156	122,961	2,901	5,507	574	1
2015	5	1,600,872	155	121,958	2,914	5,447	580	1
2015	6	1,606,504	154	122,078	2,891	5,475	577	1
2015	7	1,602,443	154	121,239	2,893	5,448	575	1
2015	8	1,601,259	155	120,962	2,896	5,435	576	1
2015	9	1,601,718	155	120,846	2,893	5,418	576	1
2015	10	1,600,237	156	120,921	2,894	5,389	574	1
2015	11	1,606,046	156	121,842	2,899	5,388	572	1
2015	12	1,609,346	159	122,285	2,877	5,381	570	1
2016	1	1,613,268	158	123,149	2,887	5,361	569	1
2016	2	1,613,268	158	123,149	2,887	5,361	569	1
2016	3	1,616,141	159	123,779	2,811	5,343	569	1
2016	4	1,613,283	160	123,265	2,794	5,306	577	1
2016	5	1,613,192	160	122,516	2,817	5,292	574	1
2016	6	1,612,950	160	122,838	2,798	5,287	576	1
2016	7	1,611,317	157	122,738	2,789	5,251	568	1
2016	8	1,612,524	158	123,056	2,797	5,252	568	1
2016	9	1,618,219	161	123,067	2,786	5,229	571	1
2016	10	1,618,219	161	123,067	2,786	5,229	571	1
2016	11	1,628,922	167	123,973	2,781	5,144	566	1
2016	12	1,637,169	160	126,103	2,809	5,272	570	1
2017	1	1,630,256	157	124,722	2,778	5,134	564	1
2017	2	1,629,819	157	125,482	2,792	5,115	565	1
2017	3	1,632,549	158	125,548	2,789	5,106	563	1
2017	4	1,627,243	157	125,007	2,796	5,063	560	1
2017	5	1,629,742	157	124,869	2,786	5,057	561	1
2017	6	1,627,737	157	124,321	2,759	5,033	565	1
2017	7	1,626,821	157	123,398	2,780	4,994	558	1
2017	8	1,625,882	157	123,286	2,786	4,980	569	1
2017	9	1,628,208	157	123,358	2,793	4,940	575	1
2017	10	1,636,273	164	125,140	2,843	5,029	576	1
2017	11	1,630,557	159	124,865	2,853	4,919	563	1
2017	12	1,642,679	168	124,534	2,873	4,868	559	1
2018	1	1,646,343	189	124,778	2,986	4,876	568	1
2018	2	1,644,125	189	126,527	2,853	4,880	567	1
2018	3	1,641,907	179	124,887	2,814	4,842	566	1
2018	4	1,632,818	171	123,227	2,821	4,743	538	1
2018	5	1,637,648	181	123,656	2,822	4,746	541	1
2018	6	1,633,329	182	123,302	2,817	4,807	543	1
2018	7	1,642,880	180	123,019	2,813	4,740	549	1
2018	8	1,626,567	180	122,398	2,868	4,775	539	1
2018	9	1,639,113	180	123,197	2,865	4,739	539	1
2018	10	1,652,400	182	124,182	2,802	4,898	546	1
2018	11	1,653,470	184	124,625	2,828	4,798	527	1
2018	12	1,650,803	178	125,370	2,762	4,711	532	1
2019	1	1,652,531	181	125,156	2,795	4,644	530	1
2019	2	1,645,928	171	125,072	2,738	4,620	532	1
2019	3	1,643,341	180	125,113	2,741	4,598	525	1
2019	4	1,640,067	178	124,299	2,712	4,530	520	1
2019	5	1,645,165	181	124,772	2,794	4,594	528	1
2019	6	1,647,708	178	123,936	2,764	4,303	527	1
2019	7	1,649,306	183	124,293	2,790	4,544	531	1
2019	8	1,648,746	175	124,626	2,777	4,557	530	1
2019	9	1,650,494	176	124,570	2,771	4,510	536	1
2019	10	1,653,545	176	124,905	2,804	4,504	532	1
2019	11	1,655,442	174	124,909	2,783	4,228	535	1
2019	12	1,659,357	170	125,321	2,768	4,357	540	1
2020	1	1,660,095	173	126,473	2,748	4,409	532	1
2020	2	1,659,857	173	126,773	2,740	4,414	532	1
2020	3	1,660,211	173	126,780	2,742	4,404	531	1
2020	4	1,662,280	177	126,592	2,744	4,387	530	1
2020	5	1,662,868	174	126,643	2,763	4,400	522	1
2020	6	1,661,385	173	126,218	2,730	4,435	530	1

Historic Customer Counts

Year	Month	RESSLSCST	RESTRNCST	COMSLSCST	COMTRNCST	INDSLSCST	INDTRNCST	LBWLCST
2020	7	1,663,261	174	126,644	2,739	4,418	527	1
2020	8	1,663,257	178	126,620	2,746	4,410	528	1
2020	9	1,662,928	174	126,038	2,760	4,310	528	1
2020	10	1,665,478	172	125,713	2,756	4,304	529	1
2020	11	1,666,785	172	125,728	2,737	4,221	518	1
2020	12	1,669,487	175	126,810	2,742	4,242	518	1
2021	1	1,670,079	204	127,398	2,721	4,235	518	1
2021	2	1,670,364	204	126,125	2,738	4,190	522	1
2021	3	1,670,804	203	127,469	2,720	4,198	523	1
2021	4	1,675,029	204	127,588	2,714	4,189	527	1
2021	5	1,673,719	203	127,434	2,714	4,184	531	1
2021	6	1,672,503	204	127,143	2,722	4,202	540	1
2021	7	1,671,847	205	127,004	2,728	4,216	547	1
2021	8	1,669,786	202	126,761	2,721	4,124	536	1
2021	9	1,669,339	203	126,639	2,722	4,135	538	1
2021	10	1,671,066	201	126,927	2,727	4,158	542	1
2021	11	1,673,433	199	127,449	2,718	4,051	539	1
2021	12	1,676,778	202	128,139	2,737	4,053	540	1
2022	1	1,677,654	202	128,314	2,737	4,017	538	1
2022	2	1,678,400	200	128,571	2,732	3,986	538	1
2022	3	1,679,775	202	128,923	2,743	3,996	537	1
2022	4	1,680,345	199	128,767	2,742	3,986	541	1
2022	5	1,682,957	200	129,729	2,739	4,004	535	1
2022	6	1,679,301	199	128,363	2,740	3,967	535	1
2022	7	1,678,595	199	127,671	2,748	3,912	534	1
2022	8	1,678,283	199	127,708	2,727	3,891	534	1
2022	9	1,676,133	199	127,633	2,745	3,888	533	1
2022	10	1,676,491	199	127,691	2,732	3,897	532	1
2022	11	1,680,246	199	128,191	2,727	3,838	534	1
2022	12	1,683,963	199	128,581	2,724	3,842	532	1
2023	1	1,683,837	199	128,771	2,718	3,801	532	1
2023	2	1,683,851	201	129,090	2,721	3,788	531	1
2023	3	1,684,793	201	129,429	2,720	3,757	532	1
2023	4	1,680,892	202	129,212	2,720	3,751	534	1
2023	5	1,685,858	202	129,060	2,724	3,734	535	1
2023	6	1,682,486	201	128,996	2,738	3,736	545	1
2023	7	1,683,667	213	128,297	2,719	3,727	533	1
2023	8	1,682,340	215	128,325	2,734	3,716	534	1
2023	9	1,681,856	213	128,518	2,730	3,700	541	1
2023	10	1,683,173	213	128,792	2,728	3,693	530	1
2023	11	1,686,381	214	129,204	2,729	3,679	531	1
2023	12	1,687,908	214	129,627	2,721	3,662	532	1
2024	1	1,690,492	210	129,967	2,735	3,641	532	1
2024	2	1,691,341	210	130,540	2,728	3,615	532	1
2024	3	1,692,260	211	130,439	2,732	3,607	532	1

Historic Monthly Degree Days

Year	Month	CycHDD55_15	CycHDD60_15	CycHDD65_15	CalHDD60_15
2004	1	945.64	1,111.60	1,277.55	1,326.00
2004	2	1,087.67	1,232.43	1,377.19	1,010.50
2004	3	680.95	827.62	975	657
2004	4	400.76	537.26	684.5	379
2004	5	163.64	253.6	364.5	143.5
2004	6	20.17	61.86	142.29	16.5
2004	7	0.19	10.64	54.33	0.5
2004	8	0	3.79	39	9
2004	9	0	7.12	60.21	23
2004	10	61.38	128.02	228.36	279
2004	11	247.81	384.12	531.57	588.5
2004	12	613.1	775.95	939.69	986.5
2005	1	934.12	1,093.40	1,252.69	1,183.00
2005	2	934.83	1,082.45	1,230.07	890
2005	3	839.29	987.19	1,135.29	906
2005	4	403.9	536.19	678.5	320
2005	5	189.6	308.55	437.79	190.5
2005	6	24.98	70.29	150.88	3
2005	7	0	1.86	14.24	0
2005	8	0	0	2.02	0
2005	9	0	0.14	10.26	16.5
2005	10	38.98	83.4	154.9	286.5
2005	11	240.26	373.21	518.14	548.5
2005	12	765	925.69	1,089.02	1,067.00
2006	1	779.02	938.79	1,098.55	832
2006	2	729.55	877.17	1,024.79	967.5
2006	3	766.83	913.74	1,060.64	752.5
2006	4	386.69	523.17	670.36	299
2006	5	108.45	214.4	353.52	158
2006	6	38.21	83.05	150.29	8.5
2006	7	0	3.24	17.62	0
2006	8	0	0	3.52	0
2006	9	2.71	15.5	53.17	95
2006	10	108.64	206.79	330.07	426.5
2006	11	404.21	554.5	708.05	572
2006	12	536.69	688.4	843.88	780.5
2007	1	655.14	814.19	973.24	1,043.00
2007	2	1,086.83	1,234.45	1,382.07	1,197.50
2007	3	835.38	978.45	1,124.36	650
2007	4	402.17	537.62	681.21	466.5
2007	5	156.81	264.29	388.5	106.5
2007	6	17.62	52.38	105.1	11.5
2007	7	0.29	3.33	21.67	1
2007	8	0	1.67	12.74	5.5
2007	9	5.21	19.88	52.62	45
2007	10	29.52	62.55	139.36	195
2007	11	209.38	312.95	438.31	671.5
2007	12	690.38	849.9	1,009.43	1,018.00
2008	1	854.74	1,015.81	1,178.67	1,046.00
2008	2	858.24	995.86	1,134.19	1,117.50
2008	3	899.05	1,039.05	1,179.05	871
2008	4	605.45	755.21	906.74	312.5
2008	5	161.24	253.45	381.1	194

Historic Monthly Degree Days

Year	Month	CycHDD55_15	CycHDD60_15	CycHDD65_15	CalHDD60_15
2008	6	70.6	160.88	269.98	5.5
2008	7	3.69	14.38	50.26	0
2008	8	0	0.26	6.19	0.5
2008	9	0	7.83	38.55	26
2008	10	51.07	108.69	201.52	370.5
2008	11	306.81	437.21	586.95	671
2008	12	778.6	935.98	1,099.07	1,070.50
2009	1	1,134.21	1,305.64	1,477.07	1,372.50
2009	2	1,001.10	1,143.71	1,286.33	925.5
2009	3	714.05	858.81	1,003.57	720.5
2009	4	440	588.76	738.76	419.5
2009	5	151.5	257.17	386.52	128.5
2009	6	22.55	70.76	173.69	12
2009	7	0.12	2.88	43.14	1.5
2009	8	0	0.79	16.1	7
2009	9	0	11.12	56.48	40
2009	10	89.07	163.93	269.24	384
2009	11	261.33	400.26	550.21	500
2009	12	561.9	725.24	891.19	1,013.00
2010	1	1,035.36	1,203.69	1,372.02	1,154.50
2010	2	887.69	1,028.17	1,168.64	970
2010	3	685.05	829.81	974.57	632
2010	4	295.29	424.31	567.17	256
2010	5	131.5	237.6	362.4	122
2010	6	25.81	56.45	105.74	4
2010	7	0	2.26	19.12	0.5
2010	8	0	0.17	1.55	0
2010	9	0	10.33	41.76	56
2010	10	54.14	127.9	239.43	258
2010	11	245.93	373.79	519.95	582
2010	12	726.88	890.21	1,056.88	1,103.50
2011	1	1,026.38	1,185.67	1,344.95	1,265.50
2011	2	1,013.33	1,157.14	1,300.95	997.5
2011	3	743.26	886.31	1,030.12	850.5
2011	4	533.57	675.71	820.95	445
2011	5	200.74	322.38	456.74	139.5
2011	6	29.76	72.1	134.36	6.5
2011	7	0	2.45	15.4	0
2011	8	0	0	0.48	0
2011	9	7.21	24.9	55.98	92.5
2011	10	49.81	125.55	238.05	289
2011	11	241.26	371	511	507.5
2011	12	548.95	711.6	876.36	837
2012	1	794.55	961.21	1,127.88	977.5
2012	2	746.83	890.4	1,033.98	855
2012	3	544.4	673.33	809.79	386.5
2012	4	259.62	382.6	518.02	399
2012	5	139.19	233.24	351	56.5
2012	6	13.36	37.81	102.1	13
2012	7	0.81	1.86	8.88	0
2012	8	0	0	5.33	0
2012	9	2.52	10.76	40.24	68.5
2012	10	77.55	159.81	276.45	331

Historic Monthly Degree Days

Year	Month	CycHDD55_15	CycHDD60_15	CycHDD65_15	CalHDD60_15
2012	11	311.19	431.95	561.81	645.5
2012	12	534.36	690.26	848.12	822
2013	1	839.45	1,004.21	1,168.98	1,032.50
2013	2	898.71	1,045.38	1,192.05	989
2013	3	801.64	948.55	1,095.45	903
2013	4	607.57	764.1	921.95	479
2013	5	172.95	258.9	366.48	106.5
2013	6	36.33	75.29	146.24	11.5
2013	7	0.14	1.83	17.4	2
2013	8	0	2.38	24	1
2013	9	9.1	23.83	53.93	78
2013	10	44.71	109.6	209.38	286
2013	11	308.6	445.69	590.43	700.5
2013	12	761.4	919.55	1,078.12	1,103.00
2014	1	1,154.45	1,319.69	1,484.93	1,380.50
2014	2	1,123.79	1,265.21	1,406.64	1,213.00
2014	3	1,046.45	1,193.36	1,340.26	1,063.00
2014	4	590.17	735.26	882.64	398
2014	5	184.21	300.93	431.48	144.5
2014	6	30.07	57.26	115.93	4
2014	7	0	2.14	22.55	1
2014	8	0	1.17	24.74	0.5
2014	9	7.36	27.02	57.48	80
2014	10	63.95	145.93	260.52	328
2014	11	329.17	469.17	617.4	783
2014	12	670.71	816.33	962.05	880.5
2015	1	957.21	1,127.93	1,298.64	1,229.50
2015	2	1,069.14	1,217.95	1,366.76	1,355.00
2015	3	1,067.57	1,213.19	1,360.10	836
2015	4	468.95	618	770.62	371
2015	5	151.67	257.86	379.95	91
2015	6	28.14	67.76	129.43	11
2015	7	0.76	2.95	19.81	1
2015	8	0	0.43	4.62	3
2015	9	0.43	7.71	34.62	20
2015	10	35.1	82.48	165.67	260
2015	11	168.19	281.43	417.14	464
2015	12	454.81	612.05	775.14	642
2016	1	780.43	953.52	1,126.62	1,056.00
2016	2	818.05	965.9	1,113.76	900
2016	3	627.57	768.29	914.95	610
2016	4	413.38	556.19	705.52	460
2016	5	162.48	277.67	413.33	140
2016	6	20.57	56.19	113.52	9
2016	7	0	2.48	16.95	0
2016	8	0	0	0.33	0
2016	9	0	0	6.14	7
2016	10	20.81	46.9	120.62	221
2016	11	193.81	306.14	441.43	435
2016	12	606.86	767.33	933.14	1,000.00
2017	1	888.81	1,048.57	1,208.33	967
2017	2	694.81	838.38	981.95	680
2017	3	532.86	676.9	820.95	769

Historic Monthly Degree Days

Year	Month	CycHDD55_15	CycHDD60_15	CycHDD65_15	CalHDD60_15
2017	4	388.48	524.38	664.95	249
2017	5	112.81	216.24	342.67	137
2017	6	20.19	43.71	102.71	0
2017	7	0	0.05	6.95	0
2017	8	0	0.38	2.9	5
2017	9	1.14	22.76	74.86	39
2017	10	9.14	42.9	110.86	198
2017	11	276	385.1	514.38	660
2017	12	599.71	754.48	909.24	1,108.00
2018	1	1,193.90	1,366.29	1,538.67	1,101.00
2018	2	858.86	1,006.95	1,155.05	863
2018	3	643.71	790.62	937.52	826
2018	4	602.29	754.9	908.48	584
2018	5	190.38	289.14	397.52	56
2018	6	7.86	27.24	71.81	1
2018	7	0	0.24	7.71	0
2018	8	0	0	0	0
2018	9	0	2.57	19.19	53
2018	10	60.81	121.52	204.29	361
2018	11	379.95	518.52	659	784
2018	12	730.33	889.14	1,047.95	870
2019	1	776.45	937.88	1,099.31	1,213.71
2019	2	1,084.41	1,241.08	1,397.75	973.86
2019	3	867.39	1,014.54	1,161.68	869.14
2019	4	438.91	580.96	729.15	390.71
2019	5	172.59	297.88	444.66	139.71
2019	6	23.74	59.27	141.39	12.86
2019	7	0.1	3.37	19.29	0
2019	8	0	0	0.49	0
2019	9	0	0.03	18.67	5.29
2019	10	33.73	75.63	152.21	282
2019	11	358.54	497.08	643.99	789
2019	12	630.8	775.8	920.8	837.86
2020	1	683.44	841.3	999.16	905.71
2020	2	735.52	879.56	1,023.61	951.14
2020	3	751.24	905.53	1,059.82	646.86
2020	4	430.26	579.11	729.11	473
2020	5	293.57	428.08	574.69	195.43
2020	6	59.66	106.43	182.52	8.57
2020	7	0.38	6.3	21.36	0
2020	8	0	0	2.2	0
2020	9	2.88	13.53	44.22	59.57
2020	10	58.34	133.4	239.72	366.86
2020	11	253.83	378.77	523.36	475.71
2020	12	505.66	647.63	796.31	869.86
2021	1	759.9	918.24	1,076.57	1,010.29
2021	2	913.86	1,058.86	1,203.86	1,093.43
2021	3	807.35	953.16	1,100.06	572
2021	4	315.12	442.74	587.36	347
2021	5	209.71	324	453.38	190
2021	6	58.9	108.19	171.67	4
2021	7	3.29	10.19	25.71	0
2021	8	0	0	0.44	0

Historic Monthly Degree Days

Year	Month	CycHDD55_15	CycHDD60_15	CycHDD65_15	CalHDD60_15
2021	9	0.01	0.25	5.12	17.71
2021	10	6.52	24.62	73.84	160.14
2021	11	192.18	299.91	421.72	647.71
2021	12	566.32	723.68	881.06	785.14
2022	1	771.81	925.86	1,079.90	1,272.57
2022	2	1,020.24	1,166.20	1,312.15	991.43
2022	3	827.85	981.18	1,134.52	739
2022	4	494.82	641.73	790.31	479.29
2022	5	237.8	357.78	486.48	95.57
2022	6	17.32	54.44	115	3.29
2022	7	0	1.24	15.36	0
2022	8	0	0	1.64	0
2022	9	0.03	0.27	6.56	60.43
2022	10	58.05	131.9	223.79	289.57
2022	11	221.65	340.99	481.56	562.43
2022	12	558.3	707.2	859.84	908.57
2023	1	775.42	939.95	1,104.47	879
2023	2	758.88	910.07	1,061.26	802.57
2023	3	664.68	817.3	969.92	758.29
2023	4	426.27	562.07	703.74	363.86
2023	5	186.5	292.19	419.68	126.57
2023	6	15.37	52.88	135.88	6.14
2023	7	0	2.61	19.07	0
2023	8	0	0	0.86	0.57
2023	9	0	5.97	48.08	14.14
2023	10	49.39	97	186.01	285.57
2023	11	254.51	378.7	508.34	627.14
2023	12	536.65	685.93	835.22	671.14
2024	1	626.31	782.26	938.21	1,121.19
2024	2	750.81	894.86	1,038.90	970.7
2024	3	529.17	677.13	831.16	745.45
2024	4	446.98	588.72	735.92	407.62
2024	5	179.84	290.07	417.8	124.59
2024	6	27.31	63.05	129.47	7.12
2024	7	0.37	2.86	18.58	0.4
2024	8	0	0.35	5.71	1.14
2024	9	2.05	10.74	37.55	46.08
2024	10	47.41	105.94	198	286.68
2024	11	266.41	391.9	530.78	610.9
2024	12	599.58	754.43	911.43	896.77
2025	1	904.79	1,069.31	1,233.83	1,121.19
2025	2	908.35	1,054.33	1,200.32	970.7
2025	3	755.01	900.72	1,047.55	745.45
2025	4	446.98	588.72	735.92	407.62
2025	5	179.84	290.07	417.8	124.59
2025	6	27.31	63.05	129.47	7.12
2025	7	0.37	2.86	18.58	0.4
2025	8	0	0.35	5.71	1.14
2025	9	2.05	10.74	37.55	46.08
2025	10	47.41	105.94	198	286.68
2025	11	266.41	391.9	530.78	610.9
2025	12	599.58	754.43	911.43	896.77
2026	1	904.79	1,069.31	1,233.83	1,121.19

Historic Monthly Degree Days

Year	Month	CycHDD55_15	CycHDD60_15	CycHDD65_15	CalHDD60_15
2026	2	908.35	1,054.33	1,200.32	970.7
2026	3	755.01	900.72	1,047.55	745.45
2026	4	446.98	588.72	735.92	407.62
2026	5	179.84	290.07	417.8	124.59
2026	6	27.31	63.05	129.47	7.12
2026	7	0.37	2.86	18.58	0.4
2026	8	0	0.35	5.71	1.14
2026	9	2.05	10.74	37.55	46.08
2026	10	47.41	105.94	198	286.68
2026	11	266.41	391.9	530.78	610.9
2026	12	599.58	754.43	911.43	896.77
2027	1	904.79	1,069.31	1,233.83	1,121.19
2027	2	908.35	1,054.33	1,200.32	970.7
2027	3	755.01	900.72	1,047.55	745.45
2027	4	446.98	588.72	735.92	407.62
2027	5	179.84	290.07	417.8	124.59
2027	6	27.31	63.05	129.47	7.12
2027	7	0.37	2.86	18.58	0.4
2027	8	0	0.35	5.71	1.14
2027	9	2.05	10.74	37.55	46.08
2027	10	47.41	105.94	198	286.68
2027	11	266.41	391.9	530.78	610.9
2027	12	599.58	754.43	911.43	896.77
2028	1	904.79	1,069.31	1,233.83	1,121.19
2028	2	908.35	1,054.33	1,200.32	970.7
2028	3	755.01	900.72	1,047.55	745.45
2028	4	446.98	588.72	735.92	407.62
2028	5	179.84	290.07	417.8	124.59
2028	6	27.31	63.05	129.47	7.12
2028	7	0.37	2.86	18.58	0.4
2028	8	0	0.35	5.71	1.14
2028	9	2.05	10.74	37.55	46.08
2028	10	47.41	105.94	198	286.68
2028	11	266.41	391.9	530.78	610.9
2028	12	599.58	754.43	911.43	896.77
2029	1	904.79	1,069.31	1,233.83	1,121.19
2029	2	908.35	1,054.33	1,200.32	970.7
2029	3	755.01	900.72	1,047.55	745.45
2029	4	446.98	588.72	735.92	407.62
2029	5	179.84	290.07	417.8	124.59
2029	6	27.31	63.05	129.47	7.12
2029	7	0.37	2.86	18.58	0.4
2029	8	0	0.35	5.71	1.14
2029	9	2.05	10.74	37.55	46.08
2029	10	47.41	105.94	198	286.68
2029	11	266.41	391.9	530.78	610.9
2029	12	599.58	754.43	911.43	896.77
2030	1	904.79	1,069.31	1,233.83	1,121.19
2030	2	908.35	1,054.33	1,200.32	970.7
2030	3	755.01	900.72	1,047.55	745.45
2030	4	446.98	588.72	735.92	407.62
2030	5	179.84	290.07	417.8	124.59
2030	6	27.31	63.05	129.47	7.12

Historic Monthly Degree Days

Year	Month	CycHDD55_15	CycHDD60_15	CycHDD65_15	CalHDD60_15
2030	7	0.37	2.86	18.58	0.4
2030	8	0	0.35	5.71	1.14
2030	9	2.05	10.74	37.55	46.08
2030	10	47.41	105.94	198	286.68
2030	11	266.41	391.9	530.78	610.9
2030	12	599.58	754.43	911.43	896.77
2031	1	904.79	1,069.31	1,233.83	1,121.19
2031	2	908.35	1,054.33	1,200.32	970.7
2031	3	755.01	900.72	1,047.55	745.45
2031	4	446.98	588.72	735.92	407.62
2031	5	179.84	290.07	417.8	124.59
2031	6	27.31	63.05	129.47	7.12
2031	7	0.37	2.86	18.58	0.4
2031	8	0	0.35	5.71	1.14
2031	9	2.05	10.74	37.55	46.08
2031	10	47.41	105.94	198	286.68
2031	11	266.41	391.9	530.78	610.9
2031	12	599.58	754.43	911.43	896.77
2032	1	904.79	1,069.31	1,233.83	1,121.19
2032	2	908.35	1,054.33	1,200.32	970.7
2032	3	755.01	900.72	1,047.55	745.45
2032	4	446.98	588.72	735.92	407.62
2032	5	179.84	290.07	417.8	124.59
2032	6	27.31	63.05	129.47	7.12
2032	7	0.37	2.86	18.58	0.4
2032	8	0	0.35	5.71	1.14
2032	9	2.05	10.74	37.55	46.08
2032	10	47.41	105.94	198	286.68
2032	11	266.41	391.9	530.78	610.9
2032	12	599.58	754.43	911.43	896.77
2033	1	904.79	1,069.31	1,233.83	1,121.19
2033	2	908.35	1,054.33	1,200.32	970.7
2033	3	755.01	900.72	1,047.55	745.45
2033	4	446.98	588.72	735.92	407.62
2033	5	179.84	290.07	417.8	124.59
2033	6	27.31	63.05	129.47	7.12
2033	7	0.37	2.86	18.58	0.4
2033	8	0	0.35	5.71	1.14
2033	9	2.05	10.74	37.55	46.08
2033	10	47.41	105.94	198	286.68
2033	11	266.41	391.9	530.78	610.9
2033	12	599.58	754.43	911.43	896.77
2034	1	904.79	1,069.31	1,233.83	1,121.19
2034	2	908.35	1,054.33	1,200.32	970.7
2034	3	755.01	900.72	1,047.55	745.45
2034	4	446.98	588.72	735.92	407.62
2034	5	179.84	290.07	417.8	124.59
2034	6	27.31	63.05	129.47	7.12
2034	7	0.37	2.86	18.58	0.4
2034	8	0	0.35	5.71	1.14
2034	9	2.05	10.74	37.55	46.08
2034	10	47.41	105.94	198	286.68
2034	11	266.41	391.9	530.78	610.9

Historic Monthly Degree Days

Year	Month	CycHDD55_15	CycHDD60_15	CycHDD65_15	CalHDD60_15
2034	12	599.58	754.43	911.43	896.77
2035	1	904.79	1,069.31	1,233.83	1,121.19
2035	2	908.35	1,054.33	1,200.32	970.7
2035	3	755.01	900.72	1,047.55	745.45
2035	4	446.98	588.72	735.92	407.62
2035	5	179.84	290.07	417.8	124.59
2035	6	27.31	63.05	129.47	7.12
2035	7	0.37	2.86	18.58	0.4
2035	8	0	0.35	5.71	1.14
2035	9	2.05	10.74	37.55	46.08
2035	10	47.41	105.94	198	286.68
2035	11	266.41	391.9	530.78	610.9
2035	12	599.58	754.43	911.43	896.77
2036	1	904.79	1,069.31	1,233.83	1,121.19
2036	2	908.35	1,054.33	1,200.32	970.7
2036	3	755.01	900.72	1,047.55	745.45
2036	4	446.98	588.72	735.92	407.62
2036	5	179.84	290.07	417.8	124.59
2036	6	27.31	63.05	129.47	7.12
2036	7	0.37	2.86	18.58	0.4
2036	8	0	0.35	5.71	1.14
2036	9	2.05	10.74	37.55	46.08
2036	10	47.41	105.94	198	286.68
2036	11	266.41	391.9	530.78	610.9
2036	12	599.58	754.43	911.43	896.77
2037	1	904.79	1,069.31	1,233.83	1,121.19
2037	2	908.35	1,054.33	1,200.32	970.7
2037	3	755.01	900.72	1,047.55	745.45
2037	4	446.98	588.72	735.92	407.62
2037	5	179.84	290.07	417.8	124.59
2037	6	27.31	63.05	129.47	7.12
2037	7	0.37	2.86	18.58	0.4
2037	8	0	0.35	5.71	1.14
2037	9	2.05	10.74	37.55	46.08
2037	10	47.41	105.94	198	286.68
2037	11	266.41	391.9	530.78	610.9
2037	12	599.58	754.43	911.43	896.77
2038	1	904.79	1,069.31	1,233.83	1,121.19
2038	2	908.35	1,054.33	1,200.32	970.7
2038	3	755.01	900.72	1,047.55	745.45
2038	4	446.98	588.72	735.92	407.62
2038	5	179.84	290.07	417.8	124.59
2038	6	27.31	63.05	129.47	7.12
2038	7	0.37	2.86	18.58	0.4
2038	8	0	0.35	5.71	1.14
2038	9	2.05	10.74	37.55	46.08
2038	10	47.41	105.94	198	286.68
2038	11	266.41	391.9	530.78	610.9
2038	12	599.58	754.43	911.43	896.77
2039	1	904.79	1,069.31	1,233.83	1,121.19
2039	2	908.35	1,054.33	1,200.32	970.7
2039	3	755.01	900.72	1,047.55	745.45
2039	4	446.98	588.72	735.92	407.62

Historic Monthly Degree Days

Year	Month	CycHDD55_15	CycHDD60_15	CycHDD65_15	CalHDD60_15
2039	5	179.84	290.07	417.8	124.59
2039	6	27.31	63.05	129.47	7.12
2039	7	0.37	2.86	18.58	0.4
2039	8	0	0.35	5.71	1.14
2039	9	2.05	10.74	37.55	46.08
2039	10	47.41	105.94	198	286.68
2039	11	266.41	391.9	530.78	610.9
2039	12	599.58	754.43	911.43	896.77
2040	1	904.79	1,069.31	1,233.83	1,121.19
2040	2	908.35	1,054.33	1,200.32	970.7
2040	3	755.01	900.72	1,047.55	745.45
2040	4	446.98	588.72	735.92	407.62
2040	5	179.84	290.07	417.8	124.59
2040	6	27.31	63.05	129.47	7.12
2040	7	0.37	2.86	18.58	0.4
2040	8	0	0.35	5.71	1.14
2040	9	2.05	10.74	37.55	46.08
2040	10	47.41	105.94	198	286.68
2040	11	266.41	391.9	530.78	610.9
2040	12	599.58	754.43	911.43	896.77
2041	1	904.79	1,069.31	1,233.83	1,121.19
2041	2	908.35	1,054.33	1,200.32	970.7
2041	3	755.01	900.72	1,047.55	745.45
2041	4	446.98	588.72	735.92	407.62
2041	5	179.84	290.07	417.8	124.59
2041	6	27.31	63.05	129.47	7.12
2041	7	0.37	2.86	18.58	0.4
2041	8	0	0.35	5.71	1.14
2041	9	2.05	10.74	37.55	46.08
2041	10	47.41	105.94	198	286.68
2041	11	266.41	391.9	530.78	610.9
2041	12	599.58	754.43	911.43	896.77
2042	1	904.79	1,069.31	1,233.83	1,121.19
2042	2	908.35	1,054.33	1,200.32	970.7
2042	3	755.01	900.72	1,047.55	745.45
2042	4	446.98	588.72	735.92	407.62
2042	5	179.84	290.07	417.8	124.59
2042	6	27.31	63.05	129.47	7.12
2042	7	0.37	2.86	18.58	0.4
2042	8	0	0.35	5.71	1.14
2042	9	2.05	10.74	37.55	46.08
2042	10	47.41	105.94	198	286.68
2042	11	266.41	391.9	530.78	610.9
2042	12	599.58	754.43	911.43	896.77
2043	1	904.79	1,069.31	1,233.83	1,121.19
2043	2	908.35	1,054.33	1,200.32	970.7
2043	3	755.01	900.72	1,047.55	745.45
2043	4	446.98	588.72	735.92	407.62
2043	5	179.84	290.07	417.8	124.59
2043	6	27.31	63.05	129.47	7.12
2043	7	0.37	2.86	18.58	0.4
2043	8	0	0.35	5.71	1.14
2043	9	2.05	10.74	37.55	46.08

Historic Monthly Degree Days

Year	Month	CycHDD55_15	CycHDD60_15	CycHDD65_15	CalHDD60_15
2043	10	47.41	105.94	198	286.68
2043	11	266.41	391.9	530.78	610.9
2043	12	599.58	754.43	911.43	896.77
2044	1	904.79	1,069.31	1,233.83	1,121.19
2044	2	908.35	1,054.33	1,200.32	970.7
2044	3	755.01	900.72	1,047.55	745.45
2044	4	446.98	588.72	735.92	407.62
2044	5	179.84	290.07	417.8	124.59
2044	6	27.31	63.05	129.47	7.12
2044	7	0.37	2.86	18.58	0.4
2044	8	0	0.35	5.71	1.14
2044	9	2.05	10.74	37.55	46.08
2044	10	47.41	105.94	198	286.68
2044	11	266.41	391.9	530.78	610.9
2044	12	599.58	754.43	911.43	896.77
2045	1	904.79	1,069.31	1,233.83	1,121.19
2045	2	908.35	1,054.33	1,200.32	970.7
2045	3	755.01	900.72	1,047.55	745.45
2045	4	446.98	588.72	735.92	407.62
2045	5	179.84	290.07	417.8	124.59
2045	6	27.31	63.05	129.47	7.12
2045	7	0.37	2.86	18.58	0.4
2045	8	0	0.35	5.71	1.14
2045	9	2.05	10.74	37.55	46.08
2045	10	47.41	105.94	198	286.68
2045	11	266.41	391.9	530.78	610.9
2045	12	599.58	754.43	911.43	896.77
2046	1	904.79	1,069.31	1,233.83	1,121.19
2046	2	908.35	1,054.33	1,200.32	970.7
2046	3	755.01	900.72	1,047.55	745.45
2046	4	446.98	588.72	735.92	407.62
2046	5	179.84	290.07	417.8	124.59
2046	6	27.31	63.05	129.47	7.12
2046	7	0.37	2.86	18.58	0.4
2046	8	0	0.35	5.71	1.14
2046	9	2.05	10.74	37.55	46.08
2046	10	47.41	105.94	198	286.68
2046	11	266.41	391.9	530.78	610.9
2046	12	599.58	754.43	911.43	896.77

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

* * * * *

In the matter of the application of)
CONSUMERS ENERGY COMPANY)
for authority to increase its rates for the)
distribution of natural gas and for other relief.)
_____)

Case No. U-21806

PROOF OF SERVICE

Linda G. Brauker, being duly sworn, deposes and says that on April 23, 2025, A.D., she emailed a copy of the attached MPSC Testimony and Exhibit to the persons as shown on the attached list.

Linda G. Brauker

Linda G. Brauker

Subscribed and sworn to before me
this 23rd day of April, 2025.

Brianna L. Brown

Brianna L. Brown, Notary Public
State of Michigan, County of Gratiot
Acting in County of Eaton
My Commission Expires July 4, 2028

Service List for U-21806

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Natasha Fowles
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