Public Service Company of New Hampshire d/b/a Eversource Energy
Docket No. DE 21-078

Date Request Received: October 29, 2021 **Date of Response: November 12, 2021**
Data Request No. TS-005 **Page 1 of 1**

Request from: Department of Energy

Witness: Boughan, Kevin, Davis, Edward A

Request:
Reference Eversource Connecticut April 2020 EV Charging Station Summary, responsive to Docket No. 17-10-46RE01 Order 5 Compliance Directive, available at https://docs.google.com/spreadsheets/d/1bU6VfNgZSoANvA32eljjbp1dZDXbiw-E/edit#gid=1188641803.

a. Please provide the April 2021 version of this report.

b. Please provide a similar comparison of what the nine high demand draw EVSE locations would have been billed for each of the last three years (to the extent they were in service at the time) under their existing rate, as compared to the proposed demand charge alternative.

Response:

a. Please refer to the Eversource Connecticut April 2021 EV Charging Station Summary, available at: http://www.dpuc.state.ct.us/2nddockcurr.nsf/8e6fc37a54110e3e852576190052b64d/ff7671aec458b87985258752007992fc?OpenDocument

b. Please see Attachment 1, which provides comparisons for those locations which are separately metered. As indicated by the data in the attachment, the demand charge alternative reflects an assumption that a customer would switch to the otherwise applicable rate when charges under the alternative would be higher than under such rate.

107 Selden Street, Berlin, CT 06037
P.O. Box 270, Hartford, CT 06141-0270

Christopher R. Bernard
(860) 665- 5967
Christopher.Bernard@eversource.com

April 1, 2021

Jeffrey R. Gaudiosi, Esq.
Executive Secretary
Public Utilities Regulatory Authority
10 Franklin Square
New Britain, CT 06051

Re: Docket No. 17-10-46RE01, Application Of The Connecticut Light And Power Company D/B/A Eversource Energy To Amend Rate Schedules – EV Rate Rider - (Compliance with Order No. 5 of March 13, 2019 Decision)

Dear Mr. Gaudiosi:

The Connecticut Light and Power Company d/b/a Eversource Energy (the "Company" or "CL&P") submits this filing in compliance with Order No. 5 of the Public Utilities Regulatory Authority's (the "Authority") March 13, 2019 decision in Docket No. 17-10-46RE01 ("Decision"), which stated:

> Order No. 5: No later than April 1, 2020 and April 1, 2021, CL&P shall file with the Authority an updated report on the Expanded EV Rate Rider pilot program. At a minimum this report shall include the following:
>
> a. The number of customers who filed a completed application for enrollment in the Expanded EV Rate Rider and either were not eligible or were not approved for service;
>
> b. The charger type, maximum capacity, location, and date of installation of every EV charging station receiving service under the Expanded EV Rate Rider;
>
> c. The monthly maximum demand, total usage and load factor for every EV charging station receiving service under the Expanded EV Rate Rider;
>
> d. The monthly bill and per-kWh charge billed to every charging station receiving service under the Expanded EV Rate Rider, as well as the monthly bill and per kWh charge in accordance with the Company's general service rate schedule that would otherwise apply to the charging station; and
>
> e. An update on the Company's education and outreach efforts.

In compliance with Order 5, attached is an updated report on the Expanded EV Rate Rider pilot program that provides the information requested. The Company has received 27 EV Rate Rider applications since the program's inception on March 13, 2019. All of the applications submitted to the Company were eligible for billing under the EV Rate Rider.

Billing and usage data for EV Charging stations have been collected, where applicable, for the April 2019 through December 2020 period. Attachment 1 shows total monthly demand, usage and load factor, along with day type profile graphs. Attachment 2 contains a summary and individual charging station data as noted in subsections (b), (c), and (d) of Order 5. Finally, Attachment 3 reflects the Company's updated EV Rate Rider education and outreach efforts.

The Company requests that the Authority contact James W. Mierzejewski at 860.665.3947, with any questions regarding this filing.

Sincerely,
Christopher R. Bernard
Christopher R. Bernard
Manager, Regulatory Policy & Strategy
On Behalf of CL&P dba Eversource Energy

cc: Service List

CL&P dba Eversource Energy EV Charging Stations Summary

											2020 Monthly Billing							
							Max #	EV Rider				Average		Estimated				
				Charging	Capacity	Max	Vehicles	Start	Billing	Max	Average	Load	EV Rate Rider		Applicable Bill			
ID #	Customer	Address	Charger Type	Ports	Per Port	Capacity	Charged	Date	Rate	Demand	Usage kWh	Factor	Ave Bill	c/kWh	Ave Bill	c/kWh	Diff	% Chg
EVR-001	EVgo	116 Danbury Road, New Milford	DC Fast Charger	2	50	100	20	Jun 2019	30	56	405	1.1%	$ 117	29.0	$ 1,213	299.4	$ 1,096	90.3%
EVR-002	EVgo	25 Old Kings Highway, Darien	DC Fast Charger	2	50	100	30	Aug 2019	30	51	455	1.6%	126	27.7	875	192.3	749	85.6%
EVR-003	EVgo	1460 Post Road, Westport	DC Fast Charger	2	50	100	34	Jun 2019	30	59	936	2.5%	219	23.4	1,355	144.8	1,136	83.8%
EVR-004	Tesla	777 Main Street, Hartford	Supercharger V2	6	150	480	622	May 2019	56	380	12,318	7.0%	2,518	20.4	6,318	51.3	3,800	60.1%
EVR-005	Tesla	1445 New Britain Avenue, West Hartford	Supercharger V2	8	150	640	1,344	May 2019	56	457	34,199	12.0%	6,302	18.4	11,501	33.6	5,199	45.2%
EVR-006	Tesla	1 Interstate 95 North, Darien (#1)	Supercharger V2	2	150	160	662	May 2019	35	132	4,981	5.4%	1,134	22.8	3,136	63.0	2,002	63.8%
EVR-007	Tesla	1 Interstate 95 North, Darien (#2)	Supercharger V2	2	150	160	662	May 2019	35	131	5,112	5.6%	1,158	22.7	3,140	61.4	1,981	63.1%
EVR-008	Tesla	1 Interstate 95 South, Darien (#1)	Supercharger V2	2	150	160	509	May 2019	35	124	4,717	5.8%	1,084	23.0	2,908	61.6	1,824	62.7%
EVR-009	Tesla	1 Interstate 95 South, Darien (#2)	Supercharger V2	2	150	160	509	May 2019	35	134	5,018	5.5%	1,148	22.9	3,101	61.8	1,953	63.0%
EVR-010	Tesla	0 Merritt PKWY, Greenwich	Supercharger V2	8	150	640	2,707	May 2019	56	513	50,080	15.6%	8,950	17.9	14,390	28.7	5,439	37.8%
EVR-011	Tesla	7 Backus Avenue, Danbury	Supercharger V2	10	150	800	1,440	May 2019	56	625	39,196	11.8%	7,094	18.1	13,166	33.6	6,072	46.1%
EVR-012	Tesla	1470 Pleasant Valley Road, Manchester	Supercharger V2	16	150	1,280	2,155	May 2019	56	898	51,760	12.5%	9,283	17.9	16,333	31.6	7,050	43.2%
EVR-013	EVgo	25-55 Wells Street, Glastonbury	DC Fast Charger	4	50	200	39	Aug 2019	30	90	1,426	2.8%	314	22.0	1,755	123.1	1,441	82.1%
EVR-014	Tesla	2233 Summer Street, Stamford	Supercharger V2	12	150	960	450	Dec 2019	37	323	12,097	7.8%	2,439	20.2	5,707	47.2	3,268	57.3%
EVR-015	Tesla	1145 High Ridge Road, Stamford	Supercharger V2	8	150	640	1,037	Dec 2019	56	510	25,449	10.5%	4,725	18.6	9,089	35.7	4,363	48.0%
EVR-016	Tesla	160 Kukas Lane, Waterbury	Supercharger V2	8	150	640	873	Dec 2019	56	483	21,901	8.5%	4,093	18.7	9,103	41.6	5,010	55.0%
EVR-017	Tesla	1 South Street, Madison	Supercharger V3	10	250	1,083	538	Feb 2020	37	230	8,338	6.1%	1,771	21.2	4,122	49.4	2,351	57.0%
EVR-018	Tesla	1 North Avenue, Madison	Supercharger V3	10	250	1,083	521	Feb 2020	37	369	13,495	7.0%	2,673	19.8	5,848	43.3	3,176	54.3%
EVR-019	Tesla	10 Jennings Road, Hartford	Supercharger V2	12	150	960	444	Oct 2020	37	286	3,078	1.8%	782	25.4	2,286	74.3	1,504	65.8%
EVR-020	Tesla	893 East Main Street, Meriden	Supercharger V3	8	250	866	1,317	Mar 2020	56	678	37,236	10.8%	6,552	17.6	13,508	36.3	6,956	51.5%
EVR-021	Tesla	I95 North, Darien	Supercharger V3	10	250	1,083	935	Mar 2020	56	613	23,651	9.7%	4,174	17.6	9,370	39.6	5,195	55.4%
EVR-022	Tesla	I95 South, Darien	Supercharger V3	12	250	1,299	1,039	Mar 2020	56	556	25,476	8.9%	4,481	17.6	9,477	37.2	4,996	52.7%
EVR-023	Tesla	351 North Frontage Road, New London	Supercharger V3	8	250	866	1,280	Apr 2020	56	532	30,135	9.8%	5,292	17.6	11,124	36.9	5,832	52.4%
EVR-024	Tesla	11 East Main Street, North Canaan	Supercharger V3	8	250	866	187	Apr 2020	37	267	5,176	3.5%	1,168	22.6	3,721	71.9	2,553	68.6%
EVR-025	Electrify America	420 Buckland Hills Drive, Manchester	DC Fast Charger	6	150	900	N.A.	Aug 2020	30	176	3,717	3.7%	717	19.3	3,900	104.9	3,183	81.6%
EVR-026	Electrify America	903 Hartford Turnpike, Waterford	DC Fast Charger	6	150	900	N.A.	Jun 2020	30	89	2,669	23.9%	540	20.2	970	36.3	430	44.3%
EVR-027	Tesla	160 River Road, Lisbon	Supercharger V3	8	250	866				**EV Charging Station built after the reporting period**								
		Total=>		192		17,992	19,354			8,760	423,019							
		Average=>								337	16270	7.7%	$ 3,033	18.6	$ 6,439	39.6	$ 3,406	52.9%

Docket DE 21-078
Data Request TS-1 - 005(b)
Dated 11/12/2021
Attachment STAFF 1-001
Page 1 of 1

Calculated Bills Rochester		
Month	Current Rate GV	Proposed Demand Alternative
21-Nov	$ 6,020	$ 6,020
21-Oct	$ 7,574	$ 7,559
21-Sep	$ 6,330	$ 6,330
21-Aug	$ 6,450	$ 6,450
21-Jul	$ 6,230	$ 6,230
21-Jun	$ 4,729	$ 4,729
21-May	$ 4,084	$ 4,084
21-Apr	$ 5,786	$ 4,871
21-Mar	$ 4,403	$ 4,403
21-Feb	$ 4,933	$ 4,933
21-Jan	$ 4,556	$ 4,556
20-Dec	$ 4,572	$ 4,572
20-Nov	$ 4,180	$ 4,180
20-Oct	$ 4,982	$ 4,982
20-Sep	$ 2,785	$ 2,785

Calculated Bills Tilton		
Month	Current Rate G	Proposed Demand Alternative
13-Oct	$ 7,597	$ 5,753
14-Sep	$ 8,789	$ 7,314
12-Aug	$ 8,832	$ 2,945
31-Jul	$ 8,953	$ 4,084
14-Jul	$ 6,090	$ 5,889
14-Jun	$ 5,902	$ 4,341
13-May	$ 4,723	$ 2,586
14-Apr	$ 5,973	$ 3,308
15-Mar	$ 6,506	$ 2,689

Calculated Bills Hooksett South		
Month	Current Rate GV	Proposed Demand Alternative
21-Nov	$ 7,873	$ 7,873
21-Oct	$ 7,452	$ 7,452
21-Sep	$ 7,793	$ 7,793
21-Aug	$ 10,250	$ 10,250
21-Jul	$ 8,548	$ 8,548
21-Jun	$ 7,889	$ 7,889
21-May	$ 7,211	$ 7,211
21-Apr	$ 8,718	$ 8,718
21-Mar	$ 8,504	$ 8,504
21-Feb	$ 9,759	$ 9,759
21-Jan	$ 9,831	$ 9,831
20-Dec	$ 5,647	$ 5,647
20-Nov	$ 8,382	$ 8,382
20-Oct	$ 6,542	$ 6,542
20-Sep	$ 7,168	$ 7,168
20-Aug	$ 6,425	$ 6,425
20-Jul	$ 5,803	$ 5,803
20-Jun	$ 5,352	$ 5,352
20-May	$ 3,624	$ 3,509
20-Apr	$ 6,893	$ 6,893
20-Mar	$ 8,470	$ 8,470
20-Feb	$ 7,773	$ 7,773
20-Jan	$ 6,906	$ 6,906
19-Dec	$ 6,554	$ 6,554
19-Nov	$ 8,640	$ 8,640
19-Oct	$ 5,526	$ 5,526
19-Sep	$ 7,983	$ 7,983
19-Aug	$ 7,731	$ 7,731
19-Jul	$ 5,698	$ 5,698
19-Jun	$ 5,620	$ 5,620
19-May	$ 5,300	$ 5,300
19-Apr	$ 5,620	$ 5,620
19-Mar	$ 6,003	$ 6,003
19-Feb	$ 6,084	$ 6,084
19-Jan	$ 6,243	$ 6,243
18-Dec	$ 6,573	$ 6,573

Calculated Bills Hooksett North		
Month	Current Rate GV	Proposed Demand Alternative
21-Nov	$ 8,660	$ 8,660
21-Oct	$ 8,502	$ 8,502
21-Sep	$ 9,027	$ 9,027
21-Aug	$ 7,489	$ 7,489
21-Jul	$ 6,591	$ 6,591
21-Jun	$ 7,292	$ 7,292
21-May	$ 7,102	$ 7,102
21-Apr	$ 7,556	$ 7,556
21-Mar	$ 8,451	$ 8,451
21-Feb	$ 7,145	$ 7,145
21-Jan	$ 7,510	$ 7,510
20-Dec	$ 7,509	$ 7,509
20-Nov	$ 7,293	$ 7,293
20-Oct	$ 5,975	$ 5,975
20-Sep	$ 7,333	$ 7,333
20-Aug	$ 6,172	$ 6,172
20-Jul	$ 4,690	$ 4,690
20-Jun	$ 3,997	$ 3,997
20-May	$ 3,460	$ 3,460
20-Apr	$ 6,036	$ 6,036
20-Mar	$ 6,039	$ 6,039
20-Feb	$ 8,495	$ 8,495
20-Jan	$ 6,958	$ 6,958
19-Dec	$ 7,810	$ 7,810
19-Nov	$ 7,859	$ 7,859
19-Oct	$ 6,422	$ 6,422
19-Sep	$ 8,061	$ 8,061
19-Aug	$ 6,529	$ 6,529
19-Jul	$ 6,333	$ 6,333
19-Jun	$ 5,444	$ 5,444
19-May	$ 4,764	$ 4,764
19-Apr	$ 5,036	$ 5,036
19-Mar	$ 5,294	$ 5,294
19-Feb	$ 5,388	$ 5,388
19-Jan	$ 5,383	$ 5,383
18-Dec	$ 4,228	$ 4,228

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 20-170

Date Request Received: 07/21/2021 **Date of Response: 08/04/2021**
Request No. DOE 2-013 **Page 1 of 1**
Request from: Department of Energy

Witness: Edward A. Davis, Brian J. Rice, Kevin Boughan

Request:
Reference Company Response Staff 1-002, pages 2-7. Please provide versions of these spreadsheets in live excel format and include an additional column for monthly utilization rate in these spreadsheets.

Response:
Please see DOE 2-013 Attachment 1, which provides the excel spreadsheet from the Company's response to Staff 1-002, in live excel format, and includes additional, estimated monthly utilization rates (i.e., load factor percentages) calculated using billing determinants provided within the spreadsheet.

Docket No. DE 20-170
Data Request DOE 2-013
Dated 07/21/2021
Attachment 1, Page 1 of 6

CYCLE MONTH	BILL DEMAND	NET KWH	# Days	Utilization %
6/14/2021	272	11,520	31	6%
5/13/2021	223	6,624	30	4%
4/14/2021	281	8,640	31	4%
3/15/2021	310	6,912	28	3%

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Data Request DOE 2-013
Dated 07/21/2021
Attachment 1, Page 2 of 6

CYCLE MONTH	BILL DEMAND	NET KWH	# Days	Utilization %
21-Jul	306	24,250	30	11%
21-Jun	231	16,750	31	10%
21-May	201	11,500	30	8%
21-Apr	294	13,000	31	6%
21-Mar	212	17,500	28	12%
21-Feb	246	13,500	31	7%
21-Jan	225	13,500	31	8%
20-Dec	227	12,500	30	8%
20-Nov	203	14,500	31	10%
20-Oct	247	15,000	30	8%
20-Sep	122	17,500	31	19%

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Data Request DOE 2-013
Dated 07/21/2021
Attachment 1, Page 3 of 6

CYCLE MONTH	BILL DEMAND	NET KWH	# Days	Utilization %
21-Jul	419	38,400	30	13%
21-Jun	390	31,600	31	11%
21-May	355	29,200	30	11%
21-Apr	437	30,800	31	9%
21-Mar	422	33,600	28	12%
21-Feb	494	31,600	31	9%
21-Jan	494	35,200	31	10%
20-Dec	273	24,800	30	13%
20-Nov	408	40,000	31	13%
20-Oct	316	30,800	30	14%
20-Sep	349	32,400	31	12%
20-Aug	305	34,800	31	15%
20-Jul	283	23,600	30	12%
20-Jun	266	16,400	31	8%
20-May	178	9,200	30	7%
20-Apr	349	18,800	31	7%
20-Mar	421	32,800	29	11%
20-Feb	384	31,200	31	11%
20-Jan	334	32,800	31	13%
19-Dec	318	29,600	30	13%
19-Nov	430	33,200	31	10%
19-Oct	264	26,800	30	14%
19-Sep	384	41,600	31	15%
19-Aug	379	33,600	31	12%
19-Jul	274	26,400	30	13%
19-Jun	271	25,200	31	12%
19-May	260	19,200	30	10%
19-Apr	276	20,800	31	10%
19-Mar	295	22,800	28	12%
19-Feb	300	22,400	31	10%
19-Jan	307	24,000	31	11%
18-Dec	329	20,800	30	9%
18-Nov	329	20,000	31	8%
18-Oct	332	13,600	30	6%
18-Sep	313	20,400	31	9%
18-Aug	240	18,400	31	10%
18-Jul	173	14,000	30	11%
18-Jun	232	11,200	31	6%
18-May	184	9,200	30	7%

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Attachment 1, Page 4 of 6

18-Apr	231	10,800	31	6%
18-Mar	263	11,200	28	6%
18-Feb	287	8,800	31	4%
18-Jan	261	10,400	31	5%
18-Dec	174	10,000	30	8%
17-Nov	240	11,200	31	6%
17-Oct	199	8,400	30	6%
17-Sep	171	11,200	31	9%
17-Aug	167	11,200	31	9%
17-Jul	150	10,000	30	9%
17-Jun	166	8,400	31	7%
17-May	136	8,000	30	8%
17-Apr	283	7,600	31	4%
17-Mar	255	9,600	28	6%
17-Feb	298	10,000	31	5%
17-Jan	161	9,200	31	8%
17-Dec	205	7,200	30	5%
17-Nov	192	8,400	31	6%
17-Oct	154	8,800	30	8%
17-Sep	146	10,000	31	9%
17-Aug	188	9,200	31	7%

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Attachment 1, Page 5 of 6

CYCLE MONTH	BILL DEMAND	NET KWH	# Days	Utilization %
21-Jul	307	41,200	30	19%
21-Jun	355	33,200	31	13%
21-May	344	33,600	30	14%
21-Apr	367	35,600	31	13%
21-Mar	410	41,600	28	15%
21-Feb	341	38,400	31	15%
21-Jan	364	36,000	31	13%
20-Dec	377	24,400	30	9%
20-Nov	342	44,800	31	18%
20-Oct	284	31,200	30	15%
20-Sep	360	30,800	31	11%
20-Aug	290	35,600	31	16%
20-Jul	222	22,800	30	14%
20-Jun	192	15,200	31	11%
20-May	168	10,000	30	8%
20-Apr	300	20,000	31	9%
20-Mar	279	38,800	29	20%
20-Feb	412	42,000	31	14%
20-Jan	336	33,600	31	13%
19-Dec	382	34,800	30	13%
19-Nov	378	40,800	31	15%
19-Oct	308	32,000	30	14%
19-Sep	387	42,800	31	15%
19-Aug	309	36,400	31	16%
19-Jul	308	27,600	30	12%
19-Jun	259	27,200	31	14%
19-May	227	22,000	30	13%
19-Apr	239	24,800	31	14%
19-Mar	252	26,000	28	15%
19-Feb	259	24,400	31	13%
19-Jan	261	22,400	31	12%
18-Dec	199	20,400	30	14%
18-Nov	225	23,200	31	14%
18-Oct	212	14,800	30	10%
18-Sep	215	20,400	31	13%
18-Aug	277	19,600	31	10%
18-Jul	210	15,200	30	10%
18-Jun	193	12,000	31	8%
18-May	202	9,200	30	6%

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Dated 07/21/2021
Attachment 1, Page 6 of 6

18-Apr	166	12,000	31	10%
18-Mar	170	12,000	28	11%
18-Feb	198	10,800	31	7%
18-Jan	194	11,600	31	8%
18-Dec	162	11,200	30	10%
17-Nov	202	13,200	31	9%
17-Oct	149	9,600	30	9%
17-Sep	169	10,000	31	8%
17-Aug	192	12,800	31	9%
17-Jul	157	9,200	30	8%
17-Jun	130	9,200	31	10%
17-May	123	8,000	30	9%
17-Apr	166	7,600	31	6%
17-Mar	173	9,600	28	8%
17-Feb	167	8,400	31	7%
17-Jan	191	10,400	31	7%
17-Dec	204	7,200	30	5%
17-Nov	206	9,600	31	6%
17-Oct	163	8,400	30	7%
17-Sep	153	8,800	31	8%
17-Aug	167	11,200	31	9%

EVERSOURCE ENERGY NEW HAMPSHIRE
Summary of Rates Effective August 1 - August 31, 2020
Issued 08/03/2020

Rate	Class	Blocks	Distribution Charge	Transmission Charge	Stranded Cost Recovery Charge	System Benefits Charge	Total Delivery Service	Energy Service Charge	Total Rate
R	Standard	Customer charge	$ 13.81				$ 13.81		$ 13.81
		All KWH	$ 0.04508	$ 0.03011	$ 0.00982	$ 0.00743	$ 0.09244	$ 0.07068	$ 0.16312
	Uncontrolled Water Heating	Meter charge	$ 4.87				$ 4.87		$ 4.87
		All KWH	$ 0.02210	$ 0.02331	$ 0.00982	$ 0.00743	$ 0.06266	$ 0.07068	$ 0.13334
	Controlled Water Heating *	Meter charge	$ 8.58				$ 8.58		$ 8.58
		All KWH	$ 0.00131	$ 0.02331	$ 0.00568	$ 0.00743	$ 0.03773	$ 0.07068	$ 0.10841
	LCS**	Radio-controlled option	$ 9.92				$ 9.92		$ 9.92
		8, 10 or 11-hour option	$ 8.58				$ 8.58		$ 8.58
		Switch option	$ 9.92				$ 9.92		$ 9.92
		Radio-controlled option	$ 0.00131	$ 0.02331	$ 0.00568	$ 0.00743	$ 0.03773	$ 0.07068	$ 0.10841
		8-hour option	$ 0.00131	$ 0.02331	$ 0.00568	$ 0.00743	$ 0.03773	$ 0.07068	$ 0.10841
		10 or 11-hour option	$ 0.02665	$ 0.02331	$ 0.00568	$ 0.00743	$ 0.06307	$ 0.07068	$ 0.13375
G	Standard	Single phase customer charge	$ 16.21				$ 16.21		$ 16.21
		Three phase customer charge	$ 32.39				$ 32.39		$ 32.39
		Load charge (over 5 KW)	$ 9.49	$ 7.77	$ 0.69		$ 17.95		$ 17.95
		First 500 KWH	$ 0.07604	$ 0.02807	$ 0.00732	$ 0.00743	$ 0.11886	$ 0.07068	$ 0.18954
		Next 1,000 KWH	$ 0.01884	$ 0.01056	$ 0.00732	$ 0.00743	$ 0.04415	$ 0.07068	$ 0.11483
		All additional KWH	$ 0.00666	$ 0.00566	$ 0.00732	$ 0.00743	$ 0.02707	$ 0.07068	$ 0.09775
	Uncontrolled Water Heating	Meter charge	$ 4.87				$ 4.87		$ 4.87
		All KWH	$ 0.02210	$ 0.02331	$ 0.00924	$ 0.00743	$ 0.06208	$ 0.07068	$ 0.13276
	Controlled Water Heating*	Meter charge	$ 8.58				$ 8.58		$ 8.58
		All KWH	$ 0.00131	$ 0.02331	$ 0.00532	$ 0.00743	$ 0.03737	$ 0.07068	$ 0.10805
	LCS**	Radio-controlled option	$ 9.92				$ 9.92		$ 9.92
		8, 10 or 11-hour option	$ 8.58				$ 8.58		$ 8.58
		Switch option	$ 9.92				$ 9.92		$ 9.92
		Radio-controlled option	$ 0.00131	$ 0.02331	$ 0.00532	$ 0.00743	$ 0.03737	$ 0.07068	$ 0.10805
		8-hour option	$ 0.00131	$ 0.02331	$ 0.00532	$ 0.00743	$ 0.03737	$ 0.07068	$ 0.10805
		10 or 11-hour option	$ 0.02665	$ 0.02331	$ 0.00532	$ 0.00743	$ 0.06271	$ 0.07068	$ 0.13339
	Space Heating*	Meter charge	$ 3.24				$ 3.24		$ 3.24
		All KWH	$ 0.03729	$ 0.02807	$ 0.01159	$ 0.00743	$ 0.08438	$ 0.07068	$ 0.15506
OTOD	R	Customer charge	$ 32.08				$ 32.08		$ 32.08
		On-peak KWH	$ 0.14407	$ 0.03011	$ 0.00844	$ 0.00743	$ 0.19005	$ 0.07068	$ 0.26073
		Off-peak KWH	$ 0.00210	$ 0.01966	$ 0.00844	$ 0.00743	$ 0.03763	$ 0.07068	$ 0.10831
	G	Single phase customer charge	$ 41.98				$ 41.98		$ 41.98
		Three phase customer charge	$ 60.00				$ 60.00		$ 60.00
		Load charge	$ 13.23	$ 5.12	$ 0.35		$ 18.70		$ 18.70
		On-peak KWH	$ 0.05335		$ 0.00532	$ 0.00743	$ 0.06610	$ 0.07068	$ 0.13678
		Off-peak KWH	$ 0.00836		$ 0.00532	$ 0.00743	$ 0.02111	$ 0.07068	$ 0.09179

EVERSOURCE ENERGY NEW HAMPSHIRE
Summary of Rates Effective August 1 - August 31, 2020
Issued 08/03/2020

Rate	Class	Blocks	Distribution Charge	Transmission Charge	Stranded Cost Recovery Charge	System Benefits Charge	Total Delivery Service	Energy Service Charge	Total Rate
GV***	Standard	Customer charge	$ 211.21				$ 211.21		$ 211.21
		First 100 KW	$ 6.07	$ 10.40	$ 0.65		$ 17.12		$ 17.12
		All additional KW	$ 5.81	$ 10.40	$ 0.65		$ 16.86		$ 16.86
		First 200,000 KWH	$ 0.00660		$ 0.00643	$ 0.00743	$ 0.02046	$ 0.06025	$ 0.08071
		All additional KWH	$ 0.00554		$ 0.00643	$ 0.00743	$ 0.01940	$ 0.06025	$ 0.07965
	B Service at less than 115 KV	Administrative charge	$ 372.10				$ 372.10		$ 372.10
		Translation charge	$ 62.42				$ 62.42		$ 62.42
		Demand charge	$ 4.88	$ 1.59	$ 0.32		$ 6.79		$ 6.79
		All KWH	(The energy charges contained in the Standard Rate for Delivery Service)						
	B Service at 115 KV or higher	Administrative charge	$ 372.10				$ 372.10		$ 372.10
		Translation charge	$ 62.42				$ 62.42		$ 62.42
		Demand charge	Not applicable	$ 1.59	$ 0.32		$ 1.91		$ 1.91
		All KWH	Not applicable	(The energy charges contained in the Standard Rate for Delivery Service)					
	Space Heating*	Meter charge	$ 3.24				$ 3.24		$ 3.24
		All KWH	$ 0.03729	$ 0.02807	$ 0.01075	$ 0.00743	$ 0.08354	$ 0.06025	$ 0.14379
LG***	Standard	Customer charge	$ 660.15				$ 660.15		$ 660.15
		Demand charge(1)	$ 5.17	$ 10.24	$ 0.49		$ 15.90		$ 15.90
		On-peak KWH	$ 0.00553		$ 0.00519	$ 0.00743	$ 0.01815	$ 0.06025	$ 0.07840
		Off-peak KWH	$ 0.00467		$ 0.00378	$ 0.00743	$ 0.01588	$ 0.06025	$ 0.07613
	B Service at less than 115 KV	Administrative charge	$ 372.10				$ 372.10		$ 372.10
		Translation charge	$ 62.42				$ 62.42		$ 62.42
		Demand charge	$ 4.88	$ 1.59	$ 0.24		$ 6.71		$ 6.71
		All KWH	(The energy charges contained in the Standard Rate for Delivery Service)						
	B Service at 115 KV or higher	Administrative charge	$ 372.10				$ 372.10		$ 372.10
		Translation charge	$ 62.42				$ 62.42		$ 62.42
		Demand charge	Not applicable	$ 1.59	$ 0.24		$ 1.83		$ 1.83
		All KWH	Not applicable	(The energy charges contained in the Standard Rate for Delivery Service)					

Notes:
* Closed to new customers.
** 8-hour, 10-hour, 11-hour and switch options are closed to new customers.
***Minimum charges apply to Rates GV and LG. Current minimum charges are $972 for Rate GV and $1031 for Rate LG

(1) For customers who contract to take service at 115KV and to pay charges based on a monthly maximum demand of at least 10,000 kVa, a discount of $-0.47 per KVA of maximum demand shall apply

An Elderly Customer Discount of 10% of the delivery service portion of the bill is available with Rates R, LCS, Controlled Water Heating and Uncontrolled Water Heating. This discount is closed to new customers.

Qualifying residential customers may receive discounts on the delivery service and energy service portions of their bills under the terms of Residential Electric Assistance Program Rate EAP. The percent discount varies with income level and applies to the usage of residential customers under Rates R, R-OTOD, LCS, OL, Controlled Water Heating and Uncontrolled Water Heating.

Monthly Energy Service charges for Rates GV, LG, and B:		
	August 2020	**$ 0.06025**
	September 2020	**$ 0.06040**
	October 2020	**$ 0.06135**
	November 2020	**$ 0.07177**
	December 2020	**$ 0.08175**
	January 2021	**$ 0.09267**
	6 Month Average	**$ 0.07137**

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 20-170

Date Request Received: 06/29/2021 **Date of Response: 07/14/2021**
Request No. STAFF 1-014 **Page 1 of 1**
Request from: New Hampshire Public Utilities Commission Staff

Witness: Brian J. Rice

Request:
Reference Eversource April 15, 2021 filing in DE 21-078.

a. Please explain whether the Company believes the proposed demand charge alternative is falls within the issues noticed in the Commission's October 16, 2020 Order of Notice in DE 20-170.

b. Please explain whether the Company believes the proposed make-ready investments and policy fall within the issues noticed in the Commission's October 16, 2020 Order of Notice in DE 20-170.

Response:

a. The demand charge alternative proposal currently being considered in Docket No. DE 21-078 does not explicitly fall within the issues being considered in this docket (DE 20-170) that are listed in the October 16 Commission Order of Notice. That Order of Notice states: "The proceeding raises, inter alia, issues related to whether the EV TOU rate proposals to be developed and filed are consistent with the rate design standards delineated in Order No. 26,394; whether those EV TOU rate design proposals are likely to result in just and reasonable electric rates, as required by RSA 374:2 and RSA 378:5 and :7; and whether the EV TOU rate design proposals are consistent with the New Hampshire Energy Policy defined in RSA 378:37." The Company's demand charge alternative proposal was designed for high-demand draw charging station customers, but it is not a time of use (TOU) rate design.

However, Order No. 26,394, upon which the Order of Notice was based, does specifically acknowledge the merit of considering a high-demand draw rate: "We also see value in the distinction Staff has drawn regarding residential and small commercial customers and high demand draw applications that may incorporate direct current fast charging or clustered level two chargers." (Order at 18). So, while the Company's demand charge alternative proposal does not explicitly fall within the issues listed in the October 16 Order of Notice, it does seem to be in line with the intent, as evidenced by Order No. 26,394.

b. Similarly, the make-ready proposal also being considered in Docket No. DE 21-078, does not explicitly fall within the issues of the Commission to explore EV TOU rate designs as listed in the October 16 Order of Notice in this docket. But should the demand charge alternative proposal be determined to fall under the penumbra of issues being considered in this docket, there are several reasons why the make-ready proposal should be considered along with and in the same docket as the demand charge alternative proposal. These reasons are as follows:

- The make-ready was designed hand-in-hand with the demand charge alternative – while they aren't necessarily inextricably linked, the success of each needs the support of the other.
- While make-ready proposals aren't explicitly enumerated in Order 26,394 or the October 16 Order of Notice, there is certainly issue overlap.
- Unitil has filed a make-ready proposal in its rate case. In Order No. 26,486, the Commission determined that the proposals and issues being considered in this docket should be resolved before Unitil's rate case hearings so that they may inform the Commission for its decision pertaining to Unitil's EV-related proposals. Since one of Unitil's EV-related proposals is a make-ready proposal, a determination on the Eversource make-ready proposal in this docket would help inform the Commission for Unitil's rate case decision, as directed by Order No. 26,486.

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 20-170

Date Request Received: 06/29/2021 **Date of Response: 07/14/2021**
Request No. STAFF 1-012 **Page 1 of 1**
Request from: New Hampshire Public Utilities Commission Staff

Witness: Dennis E. Moore, Brian J. Rice

Request:
Reference Eversource July 24, 2020 Comments in IR 20-004 stating "Limited experience of the Company's affiliates in other jurisdictions has also shown that customer ownership of meters, and the obligations that come with it, can be frustrating and time consuming for customers." Please provide a detailed narrative describing the referenced experience of the Company's affiliates in other jurisdictions.

Response:
In Connecticut we learned the time and cost required to utilize embedded EVSE capabilities in lieu of revenue-grade utility-owned metering while maintaining the quality, consistency and security of billing data are likely to be particularly significant and may not result in solutions best suited for near-term deployment.

Eversource has experience with customer-owned meters in a commercial distributed generation program in Connecticut. This approach has created challenges for our customers in several areas including:

a. Connectivity to Eversource Systems. Customers are responsible for maintaining connectivity to appropriate meter reading systems and become frustrated when Eversource is unable to resolve issues on the customer's behalf.
b. Troubleshooting of Problem Meters. Eversource personnel are not responsible for maintaining customer-owned equipment and therefore cannot troubleshoot problem meters for our customers. Equipment manufacturers may be unable to provide customers with timely troubleshooting of metering problems.

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 20-170

Date Request Received: 07/21/2021 **Date of Response: 08/04/2021**
Request No. DOE 2-021 **Page 1 of 2**
Request from: Department of Energy

Witness: Dennis E. Moore

Request:
Reference Company Response Staff 1-012, stating "Eversource has experience with customer-owned meters in a commercial distributed generation program in Connecticut. This approach has created challenges for our customers in several areas."

a. Please indicate the number of customers who participate in the Eversource commercial distributed generation program in Connecticut.
b. Please indicate the number of customers who participate in the Eversource commercial distributed generation program in Connecticut using customer-owned meters.
c. Please quantify any incremental costs attributable to the use of the customer-owned meter within this Connecticut program.
d. Please indicate the number of customer complains relating to the Connecticut program and maintaining connectivity to Eversource systems.
e. Please provide all documentation relating to the Connecticut program and customer challenges maintaining their meter's connectivity to Eversource systems.
f. Please indicate the number of customer complains relating to the Connecticut program and troubleshooting problem meters. Please provide all documentation that may be available relating to customer challenges troubleshooting problem meters.

Response:

a. There are 1,791 customers who participate in the Eversource commercial distributed generation program in Connecticut.
b. There are 1,791 customers who participate in the Eversource commercial distributed generation program in Connecticut using customer-owned meters.
c. Eversource does not track incremental costs attributable to the use of customer-owned meters within the Connecticut program.
d. Eversource does not track customer complaints relating to the Connecticut program and maintaining connectivity to Eversource systems. In the Company's experience with customer-owned meter connectivity issues, the customer does not initiate a complaint. Rather, the Company becomes aware of the meter's connectivity issues during the overall customer billing process (e.g., the customer's account begins to estimate). The account will continue to estimate until the issue is resolved, resulting in the customer potentially receiving an inaccurate bill, which increases customer dissatisfaction. Since the meter and its connectivity vehicle is not the property of the Company, we rely heavily on the customer to help us resolve the issue. If the estimated bill is close to or lower than actual billing, the customer has little to no incentive to resolve the issue. As a result, resolution can take months (if not longer) to troubleshoot and resolve depending on the nature of the issue (e.g., firewall issues or a change in internet provider). For example, in

2021, Eversource has been working to resolve 113 accounts where the meter is experiencing connectivity issues, some of which we have been actively pursuing with the account holder through repeated customer calls, emails, letters, and site visits over several months with little progress.

e. Please see the Company's response to d. above.

f. Please see the Company's response to d. and e. above.

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 21-078

Date Request Received: 10/05/2021 **Date of Response: 10/19/2021**
Request No. DOE 2-006 **Page 1 of 1**
Request from: Department of Energy

Witness: Edward A. Davis

Request:
Please explain whether the Company's demand charge alternative would apply to existing high demand draw EVSE customers.

Response:
While the proposed demand charge alternative was developed in support of public charging stations pursuant to the Company's settlement agreement in its distribution rate case, DE 19-057, this rate would be made available as an option to existing, separately metered high demand draw EVSE customers who otherwise would receive service under Rate GV.

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 20-170

Date Request Received: 06/29/2021 **Date of Response: 07/14/2021**
Request No. STAFF 1-006 **Page 1 of 1**
Request from: New Hampshire Public Utilities Commission Staff

Witness: Dennis E. Moore, Brian J. Rice

Request:
Reference January 29, 2021 Staff Report on behalf of the parties to the proceeding stating "To further inform the alternative metering feasibility assessment concept, the utilities agreed to circulate, amongst the parties, draft outlines of their proposed alternative metering feasibility assessments by February 2, 2021."

a. Please provide a copy of the Company's proposed alternative metering feasibility assessment outline. If no outline was developed, please explain why this was the case.
b. Please provide a copy of the Company's alternative metering feasibility assessment, which under the agreed upon procedural schedule were to be filed on June 15, 2021. If the Company did not provide an alternative metering feasibility assessment, please explain why this is the case.

Response:
a. Refer to Attachment 1 to this response for the alternative metering feasibility assessment outline provided by the Company and shared with participants in this proceeding in advance of the February 9, 2021 technical session.

b. The feasibility of alternative metering for EV TOU rates is addressed in the testimony of Messrs. Moore, Rice and Goldman at Bates page 23. The confirmation from ITRON that capabilities to enable interval data communication from current electric vehicle supply equipment ("EVSE") to MV90xi are not presently available represents a significant barrier to the efficient use of alternative data sources. In the Company's view, present incompatibility with MV90xi makes alternative metering solutions that use customer EVSE data to bill TOU rates infeasible for Eversource with current systems at this time.

DE 20-170: EVERSOURCE ALTERNATIVE METERING FEASIBILITY STUDY OUTLINE

The Eversource system of record for receiving and managing interval data is ITRON MV90xi ("MV90"). For the Company's revenue meters, MV90 calls the interval meters daily and downloads 24 hours' worth of interval data. There are system and manual-driven validating, editing and estimating ("VEE") of data prior to using the data to develop billing determinants. The billing determinants are uploaded to the billing system based on billing cycles.

For metering and data collection outside of Eversource revenue meters, the Company would need to review the following information:

1. Proposed meter type
2. Meter compatibility with MV90. The meter requires a Translation Interface Module ("TIM") to tell MV90 how to read the meter type correctly.
3. If TIM is available, TIM must be installed in MV90 and tested with the meter; if Tim is not available, an all manual process is required for data collection and billing.
4. Once deemed compatible, the new meter must be set up in MV90 and assigned a call schedule.
5. Time of use ("TOU") schedule is set up in MV90 to interpret the interval data for billing.

There are many other factors that the Company must consider as well, including:

Meter communication setup: Cellular service (Verizon) requires an active IP address maintained by the customer. If a phone line is used, the customer must provide a dedicated, active line. Either method must be capable of secure data transmission.

Meter communication failure: Can the meter can be probed manually in the event of wireless communication failure? Such manual access requires the Itron HHF Handheld format.

Meter quality: The meter must be revenue grade according to Eversource standards to ensure both data (and consequentially billing) accuracy as well as maintain sufficient and appropriate security measures.

Meter access: Eversource requires unrestricted access to its equipment to perform maintenance, troubleshoot, and/or make repairs to ensure the integrity of its equipment. This includes but is not limited to periodic testing and maintenance, verification of meter and meter data accuracy, cellular network upgrades as required by provider, and access to data generated by the meter. A process to ensure the integrity of the meter and associated data is required.

Data Integrity: Eversource must have copies of all software, firmware, and approve any changes to software, firmware or hardware that could have an effect on the accuracy of the metering

data. Testing protocols must be developed to allow Eversource to independently test the accuracy of the meter. Meter must meet all testing requirements of ANSI C12.1 and C12.20. Meter will be sealable to prevent access by the customer or vendor to prevent tampering or introduction of unauthorized software, firmware, or changes to metering quantities such as pulse values, CT ratios, compensation factors, etc. All changes in metering values, software or firmware must be date and time stamped with user ID, logged and made available to Eversource in a secure file. Eversource will have access to all master and administrative passwords related to the metrology and data logging.

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 20-170

Date Request Received: 07/21/2021 **Date of Response: 08/04/2021**
Request No. DOE 2-010 **Page 1 of 1**
Request from: Department of Energy

Witness: Edward A. Davis, Brian J. Rice, Kevin Boughan

Request:
Reference Company Response Staff 1-002, page 1. Please provide a version of this table that provides additional columns indicating, for each of the nine identified charging stations: (1) the end-use customer of record; and (2) the charging station manufacturer and model; and (3) the number of ports per location; (4) the number of charging stations per location; (5) the charging station kW capacity; and (6) whether the stations at that location are separately metered or metered and billed as part of a larger customer load.

Response:
Please see DOE-2-010 Attachment 1.

Docket No. DE 20-170
Data Request DOE-2-010
Dated 07/21/2021
Attachment 1, Page 1 of 1

	Location											
Station No.	Street Address	City	State	ZIP	Customer of Record	EVSE Manufacturer	EVSE Model	EV Network	Number of Ports	Number of Stations	kW per Port	Separately Metered (y/n)
1	65 Laconia Rd	Tilton	NH	3276	Dunkin Donuts	Tesla	V3 Supercharger	Tesla	8	8	250	y
2	290 North Main Street	Rochester	NH	3867	Hannaford Supermarket	Tesla	V2 Supercharger	Tesla	8	8	150	y
3	Hooksett Travel Plaza Northbound I-93	Hooksett	NH	3106	Hooksett Travel Plaza	Tesla	V2 Supercharger	Tesla	10	10	150	y
4	Hooksett Travel Plaza Southbound I-93	Hooksett	NH	3106	Hooksett Travel Plaza	Tesla	V2 Supercharger	Tesla	12	12	150	y
5	17 Lafayette Rd	North Hampton	NH	3862	Harley Davidson	ChargePoint	Express 100	ChargePoint	1	1	24	n
6	310 Daniel Webster Hwy	Nashua	NH	3060	Pheasant Lane Mall	ABB	n/a	EVgo	2	2	50	n
7	115 John E Devine Dr	Manchester	NH	3103	Harley Davidson	ChargePoint	Express 100	ChargePoint	1	1	24	n
8	1500 South Willow Street	Manchester	NH	3103	Simon Mall	n/a	n/a	Electrify America	4	4	50 - 350	n
9	121 S River Rd	Bedford	NH	3110	Whole Foods Market	n/a	n/a	EVgo	1	1	50	n

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 20-170

Date Request Received: 07/21/2021 **Date of Response: 08/04/2021**
Request No. DOE 2-018 **Page 1 of 2**
Request from: Department of Energy

Witness: Michael R. Goldman, Dennis E. Moore

Request:
Reference Company Response Staff 1-009 stating "The Company does not propose to provide incentives associated with the proposed EV load management program as a bill credit. This has historically been the practice for all load management programs delivered by Eversource Energy as part of energy efficiency programs. Load management programs that provide incentives which are not tied to the customer's bill or explicitly tariff based are much more suited to utilizing third-party device capabilities to serve customers. The Company's load management programs avoid the administrative and technical challenges of integrating alternative data sources into existing enterprise systems because they rely on inputs which are much simpler than measurements of energy consumption accurate enough for billing purposes. Options for customers to participate in load management programs that provide credit through their bill have historically been much more limited and have required additional company-owned meters or devices."

a. Please explain which inputs the Company's load management programs rely on to avoid the administrative and technical challenges of integrating alternative data sources into existing enterprise systems and explain how they are much simpler than measurements of energy consumption accurate enough for billing purposes.
b. Please describe any historical options the Company has offered for customers to participate in load management programs that provide credit through their bill, including the number of customers who participated and the company-owned meters or devices that were used. Please provide this data for New Hampshire, Connecticut, and Massachusetts, by jurisdiction.

Response:
(a) The Company's load management programs do not pay an incentive based off of measured volumetric energy consumption. Incentives are not based on measurement of energy consumption. The programs are based on the binary condition of whether the vehicle is charging or not. The Company relies on inputs from the EVSE to determine if the vehicle is charging or not. An incentive is paid through an off-bill gift card or check if the customer participates in the managed charging program. There is no integration into the billing or metering systems. Instead, the load management program use capabilities developed to run demand response and other similar programs, largely utilizing third party Software as a Service (SaaS).

(b) Up until October 1, 2004 in New Hampshire there was an electric water heating option for 40 gallon electric water heating. These had time clock meters installed, and three options on a timer for 8, 10, and 11 hours of operation. This rate was called Controlled Off-Peak Electric Water Heating; COPE . This program was discontinued in 2004.

Additionally, there is a program called HEATSMART in New Hampshire. Eversource's HEATSMART Program provides qualifying customers with a discounted kilowatt-hour rate for their separately metered electric space heating (and cooling if using a heat pump) and electric water heating. Each of these customers has two meters installed, one for their primary usage and the other for the HEATSMART equipment. To qualify, customers must have permanently installed electric heat and an approved permanently installed back-up heating source sized to adequately heat the area of the premises served by the interruptible electric heat. This rate was discontinued as of January 1, 2021. The re are currently 3,349 customers on this legacy rate.

The best information available or known at this time provides no indication of any past or current load management programs offered by the Company in Massachusetts or Connecticut that provide credit through customers' bills.

Public Service Company of New Hampshire d/b/a Eversource Energy
Docket No. DE 21-119

Date Request Received: December 01, 2021 **Date of Response: December 15, 2021**
Data Request No. DOE 3-001 **Page 1 of 2**

Request from: Department of Energy

Witness: Davis, Edward A

Request:
Reference Davis Testimony at Bates page 6, stating "Consistent with current meter and billing system capabilities, the Company has developed cost-based, time-differentiated rates for this new peak period for the distribution and transmission components of service."
a. Please explain whether the Company manually bills the existing time of use residential customers, and whether it would plan to do so under the new time-varying rate. If so, please explain the actions the Company takes to manually bill such customer, and the annual cost of billing these customers manually.
b. Please explain whether the Company manually bills any other customers in its New Hampshire service territory. If so, please explain the type of customer, why that customer is manually billed, and the cost of manually billing that customer or class of customers.
c. Please explain whether the Company manually bills any customers outside of its New Hampshire service territory. If so, please explain the type of customer, why that customer is manually billed, and the cost of manually billing that customer or class of customers.

Response:

a. The company does not manually bill existing time of use customers nor does it plan to under the company's proposal.

b. New Hampshire has 63 accounts that are manually billed in the Company's Large Power Billing ("LPB") system each month for anything that the system cannot bill on its own. It takes one full-time employee approximately 10 hours a month at a fully loaded rate of $52.11 per hour to handle existing manually billed accounts.

c. The majority of Company customers are billed using an invoicing software system, namely the Company's C2 and LPB customer billing systems for monthly energy usage and the Oracle A/R system for billing of damage claims, pole attachments, property rental and other miscellaneous billing needs.

   There are some customers that are manually billed in MA and CT. Manual billing is primarily for solar accounts that are on a time-of-use rate where the account requires an interval meter. Extensive system enhancements would be required in each state's billing

Public Service Company of New Hampshire d/b/a Eversource Energy
Docket No. DE 21-119

Date Request Received: December 01, 2021 **Date of Response: December 15, 2021**
Data Request No. DOE 3-001 **Page 2 of 2**

system to bill these solar accounts through existing billing systems rather than manually. These accounts are manually billed because the Company has a regulatory mandate to serve these customers in this manner and the existing billing systems are not capable of doing so without significant and costly modifications. In contrast, the proposed rate R-OTOD-2 being considered in this docket requires no such modifications to existing systems as it is proposed, as rate R-OTOD is already being offered to Eversource customers in New Hampshire.

Due to the rapid and constant evolution of renewable energy programs, the number of different rates that exist as well as the associated requirements, the manual work continues to grow in complexity and varies by state, which gets progressively more complicated and onerous to implement the more accounts are added. The cost of manual billing includes the bill being produced as well as the additional labor to provide the following additional elements: sharing credits with large numbers of other customer accounts, managing the forms required for the sharing of credits, tracking volumes of credits to ensure prescribed levels are not exceeded, manual revenue reporting, updating monthly rates, manually reviewing the bills, printing and mailing bills locally, etc.

The Company estimated the annual fully loaded costs of this manual billing work is currently ~$2.2 million in MA and ~ $1.2 million in CT.

Public Service Company of New Hampshire d/b/a Eversource Energy
Docket No. DE 21-119

Date Request Received: December 01, 2021 **Date of Response: December 15, 2021**
Data Request No. DOE 3-002 **Page 1 of 2**

Request from: Department of Energy

Witness: Davis, Edward A

Request:
Reference Connecticut Light and Power. Rate 7, available at: https://www.eversource.com/content/docs/default-source/ratestariffs/ct-electric/rate-7-ct.pdf?sfvrsn=8224c062_24.
a. Please explain whether the Company utilizes one legacy customer billing system across three states.
b. Please provide an estimate of the costs necessary to offer New Hampshire customers a rate similar to Rate 7, except with a time varying distribution component.
c. Please explain whether any cost synergies would be gained by developing a time varying rate mirroring rate 7, but for commercial NH customers, at the same time the Company develops a rate offering similar to rate 7 for residential NH customers.
d. Please provide an estimate of the costs necessary to offer New Hampshire commercial customers with a peak demand of no greater than 1000kW a rate similar to Rate 7, except with a time varying distribution component.

Response:

a. Eversource has 3 core billing systems for electric customers across CT, NH and MA:
    1. C2 (mainly used for residential and small business customers)
    2. Large Power Billing ("LPB")
    3. CIS
b. The Company objects to this question for relevance as the requested cost estimate for a rate that has not been discussed in this docket, and such a cost estimate is unrelated to the only rate being considered in this docket, R-OTOD-2.
c. The Company objects to this question for relevance, as there is no commercial application being considered in this docket – this docket was opened and noticed specifically for considering a modified version of the Company's residential time of day rate. Notwithstanding the Company's objection, the Company does not believe there are any cost synergies by developing a commercial time varying rate at the same time as a rate similar to Rate 7.
d. The Company objects to this question for relevance, as there is no commercial rate up for consideration in this docket, the only rate noticed and being considered is a modification to the Company's residential time of day rate.

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 20-170

Date Request Received: 07/21/2021 **Date of Response: 08/04/2021**
Request No. DOE 2-019 **Page 1 of 1**
Request from: Department of Energy

Witness: Dennis E. Moore

Request:
Reference Company Response Staff 1-010, stating "The initial activity to identify these costs and a timeline was to capture high level scope and business requirements for a proposed dynamic EV TOU rate which included up to 3 daily periods differentiated for weekdays, weekends and holidays. Through a series of requirement gathering sessions, high-level requirements for metering, billing and reporting system modifications were identified. These high-level requirements were subsequently used to estimate incremental IT costs for solution development & testing as well as project support costs. The lead time of 30 months includes activities for project mobilization, requirements refinement (6 months), plus a development and delivery timeline of roughly up to 24 months based off of past projects with equivalent scope and complexity." Please provide any documents prepared in order to identify costs and a timeline, including meeting minutes, agendas, memos, presentations, or other materials.

Response:
Please refer to Attachment 1 for a summary of the Company's cost estimate and Attachment 2 for the final project scope and business requirements for implementation of the propose rate.

Project Details	Estimate	Timeline
Incremental Development and Testing IT Costs	$7,200,000	18 – 24 Months
Incremental Project Support Costs	$1,920,000	
Total	$9,120,000	

Key Assumptions:

1. This is a high-level order of magnitude estimate and timeline using only incremental Vendor, Supplier, and Contractor costs.
2. Assumes that 3-part usage data will be sent to competitive suppliers for purposes of pass-through billing and that changes will be made to C2 billing system for Eversource to bill 3-part prices on behalf of competitive suppliers for complete billing.
3. Metering, billing, and reporting changes are required to build a new Electric Vehicle rate.
4. Estimate does not include meter purchase, installation, nor overhead related to meter management.
5. Estimate includes resource cost associated with gathering requirements, responding to design questions, testing, training, implementation, and post implementation support.
6. Assumes interval read meters are used.
7. Bill changes will be required.

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Exhibit 13

Project Name: NH Electric Vehicle 3 Part TOU Rate
Date: Updated 03/11/2021 v13

IT Business Solutions Analyst: Business Solution Analysts

Business & IT contributors to this document (title):

1. Director
2. Manager
3. Domain Architect
4. Supervisor
5. Analyst
6. Analyst
7. Analyst
8. Analyst
9. Strategist
10. Project Manager
11. Consultant
12. Developer
13. Developer
14. Developer
15. Manager

Background

As part of the 2020 NH Rate Case Settlement agreement, Eversource has been asked to propose a 3-part electric vehicle charging station Time of Use rate.

Under the proposal, all 3 parts of TOU rate must have different rates for distribution, supply, and transmission. This document outlines the high-level scope for the metering, billing and reporting changes to be made to support the proposal. Using the attached Liberty Utilities proposed rate as a guide, the following are the requirements.

High-Level Business Requirements:

In Scope:

All 3 parts of TOU rate must have different rates for distribution, supply, and transmission.

Metering Requirements

1. Business to set up interval meter configuration for 3-part TOU in NH MV90xi to generate BDET (Billing Determinate) file automatically.

Summary of changes to utilize Meter Bill Tracker in the process for 3-part TOU Rate (NEW)

2. Create separate instance of the Meter Bill Tracker (MTB) for NH.
    - This includes creating separate instance of Meter Bill File Watcher to import data from C2.
    - Alternatively, modify the existing instance to accommodate NH data.
        - This may be a better long term solution, but take longer to implement.
3. PowerTrack Export of meters, modified to get NH interval meters for use by the mainframe C2 COBOL program for extracting customer data.
4. C2 COBOL program (KILMRXIN) that extracts customer / meter from C2 to send to the MBT system each morning as the C2 download file.

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Exhibit 13

- A separate download file should be created for NH
  - or
- The Meter Bill File Watcher service that imports the file to the MBT will need modified to filter on company code for both the CTMA data and the NH data.

5. MBT FileWatcher service to import the customer data for NH from the C2 download file.
6. MBT UI changes to present the mid-peak values to the user.
7. File Scanner BDF Generator process to calculate the index values for mid-peak, based off of the consumption data and prior index values contained within MBT. (Refer to diagram)
8. Changes to MBT to accommodate NH Billing cycles in MBT
9. Changes to MBT to be able to filter & search NH data.
10. Changes to MBT to export the mid-peak index values with the on & off peak values.
11. May need a separate export/extract file from MBT to C2 for NH reads. Ideally, you would send NH reads and CTMA (Connecticut / Massachusetts) reads together.
12. If NH resources need to be restricted from accessing CTMA data MBT, this would require a change to roles for MBT users to isolate access to NH vs. CTMA data.
13. MBT changes to accommodate and/or separate NH data errors.

Billing Requirements

1. Create new billing meter type configurations for 3-part TOU.
2. Create new usage detail types for 3-part TOU.
3. Create new C2 service plan options (residential, commercial) for 3-Part TOU. EV rates will bill On-peak, Mid-Peak, and Critical and Total. Rates for energy (kWh) based changes are based on two seasonal periods.
4. Change C2 bill file to send data (including new On-peak, Mid-Peak, and Critical and Total rates) to KUBRA for purposes of bill print. Pending design discussion, this may be a change to the Meter Box on left-hand side of bill and the Billing Determinates on right-hand side of bill calculation. KUBRA will need to make changes to accept the new data in the modified C2 file and render the bill.
5. Modify EDI file sent to competitive suppliers to include the 3-part usage (On-peak, Mid-Peak, and Critical and Total). This would be needed for customers who elect pass-through billing but most likely will be required for complete billing customers as well.

Reporting Requirements

1. If needed, modify files sent to Load Research to include hourly or native intervals off the interval meter.
2. Change existing Revenue Reports for Accounting to track the new EV rate in C2.

Out of Scope:

1. Changes to Eversource.com

Assumptions:

1. The MBT solution would be in-place at least until C2 is replaced with SAP.
2. No changes required for NH LPB. Assumption is that EV customers can be billed in C2.

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Exhibit 13

3. Requirements will be based on the proposed Liberty Utilities Tariff on last page.
4. Eversource will own the meter which will be a basic kWh Survey Type One-Channel Interval Meter. That meter is a recording meter that can record in 5 to 30-minute intervals.
5. File scanner changes will be required for moving meter data.
6. Estimates will include incremental IT effort only.
7. Estimate does not include the purchase or installation of the meter nor any of the business overhead related to managing the meters for NH.
8. Load Settlement regression testing required.

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 20-170

Date Request Received: 09/17/2021 **Date of Response: 09/29/2021**
Request No. DOE 4-002 **Page 1 of 1**
Request from: Department of Energy

Witness: Edward A. Davis, Brian J. Rice

Request:
Reference Staff 1-002-SP02-Attachment 1.
a. Please define "net kWh."

b. Please explain whether the utilization rate provided is based on: (1) the volumetric usage each month as a percent of the billed demand; or (2) the volumetric usage each month as a percent of total potential volumetric usage associated with the overall installed capacity of the sites. If the later has been provided, please provide a version of Staff 1-002-SP02-Attachment 1 that includes an additional column containing a utilization rate calculation reflecting the volumetric usage each month as a percent of total potential volumetric usage associated with the overall installed capacity of the sites.

c. Reference DE 21-078 Davis/Rice/Boughan Testimony, Bates 21, lines 18-21, and Bates 22, Figure 22. Please indicate whether the references utilization rate is based on: (1) the volumetric usage each month as a percent of the projected actual demand; or (2) the volumetric usage each month as a percent of total potential volumetric usage associated with the overall installed capacity of the sites.

d. If the Company took differing methodological approaches to the calculation described in part b and part c, please explain why this was the case.

e. Reference DE 21-078 Davis/Rice/Boughan Testimony, Bates 24, Lines 11-19. Please explain whether the 10% utilization rate design point represents either (1) the volumetric usage each month as a percent of the projected actual demand; or (2) the volumetric usage each month as a percent of total potential volumetric usage associated with the overall installed capacity of the sites.

Response:
Please note, the following responses are relative to the referenced attachment. The Company notes there were formula errors in one worksheet, and has corrected that , and has added utilization calculations where the only load at the site is that of EV charging. Additional notes are included as well, for locations where there is load other than charging, rendering a calculation of utilization using installed charging capacity meaningless. Please see DOE 4-002 Attachment 1 for this updated attachment..

a. The label "net kWh" is a field name from the data query utilized to obtain information for this response. In the case of the locations provided in this response, net kWh is the same as total metered or billed kWh, as reflected in DOE 4-002 Attachment 1.
b. In the context of the referenced attachment the utilization rate was calculated using EV volumetric usage relative to billed demand each month. In certain locations total usage includes both charging

station load and other load, which when divided by charging station demand results in high utilization. In such cases, as noted in DOE 4-002 Attachment 1, such utilization calculation has not been performed.
c. Eversource objects to this question on the basis of relevance as it pertains only to a proposal at issue in a different docket, which the Commission has directed must stay in that separate docket. The Company would gladly provide this response as either a supplement or a response to a new data request in Docket No. DE 21-078.
d. For purposes of rate design and electric service charges in subpart b., the Company applied a consistent methodological approach, calculating utilization as a function of metered kWh volume relative to maximum metered demand.
e. Eversource objects to this question on the basis of relevance as it pertains only to a proposal at issue in a different docket, which the Commission has directed must stay in that separate docket. The Company would gladly provide this response as either a supplement or a response to a new data request in Docket No. DE 21-078.

Docket No. DE 20-170
Data Request DOE 4-002
Dated 09/29/2021
Attachment 1, Page 1 of 11

CYCLE MONTH	BILL DEMAND	INSTALLED CAPACITY (kW)	NET KWH	# DAYS	BILL DEMAND UTILIZATION %	INSTALLED CAPACITY UTILIZATION %
6/14/2021	272	2000	11,520	31	6%	0.8%
5/13/2021	223	2000	6,624	30	4%	0.5%
4/14/2021	281	2000	8,640	31	4%	0.6%
3/15/2021	310	2000	6,912	28	3%	0.5%

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Data Request DOE 4-002
Dated 09/29/2021
Attachment 1, Page 2 of 11

CYCLE MONTH	BILL DEMAND	INSTALLED CAPACITY (kW)	NET KWH	# DAYS	BILL DEMAND UTILIZATION %	INSTALLED CAPACITY UTILIZATION %
21-Jul	306	1200	24,250	30	11%	3%
21-Jun	231	1200	16,750	31	10%	2%
21-May	201	1200	11,500	30	8%	1%
21-Apr	294	1200	13,000	31	6%	1%
21-Mar	212	1200	17,500	28	12%	2%
21-Feb	246	1200	13,500	31	7%	2%
21-Jan	225	1200	13,500	31	8%	2%
20-Dec	227	1200	12,500	30	8%	1%
20-Nov	203	1200	14,500	31	10%	2%
20-Oct	247	1200	15,000	30	8%	2%
20-Sep	122	1200	17,500	31	19%	2%

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CYCLE MONTH	BILL DEMAND	INSTALLED CAPACITY (kW)	NET KWH	# DAYS	BILL DEMAND UTILIZATION %	INSTALLED CAPACITY UTILIZATION %
21-Jul	419	1500	38,400	30	13%	4%
21-Jun	390	1500	31,600	31	11%	3%
21-May	355	1500	29,200	30	11%	3%
21-Apr	437	1500	30,800	31	9%	3%
21-Mar	422	1500	33,600	28	12%	3%
21-Feb	494	1500	31,600	31	9%	3%
21-Jan	494	1500	35,200	31	10%	3%
20-Dec	273	1500	24,800	30	13%	2%
20-Nov	408	1500	40,000	31	13%	4%
20-Oct	316	1500	30,800	30	14%	3%
20-Sep	349	1500	32,400	31	12%	3%
20-Aug	305	1500	34,800	31	15%	3%
20-Jul	283	1500	23,600	30	12%	2%
20-Jun	266	1500	16,400	31	8%	1%
20-May	178	1500	9,200	30	7%	1%
20-Apr	349	1500	18,800	31	7%	2%
20-Mar	421	1500	32,800	29	11%	3%
20-Feb	384	1500	31,200	31	11%	3%
20-Jan	334	1500	32,800	31	13%	3%
19-Dec	318	1500	29,600	30	13%	3%
19-Nov	430	1500	33,200	31	10%	3%
19-Oct	264	1500	26,800	30	14%	2%
19-Sep	384	1500	41,600	31	15%	4%
19-Aug	379	1500	33,600	31	12%	3%
19-Jul	274	1500	26,400	30	13%	2%
19-Jun	271	1500	25,200	31	12%	2%
19-May	260	1500	19,200	30	10%	2%
19-Apr	276	1500	20,800	31	10%	2%
19-Mar	295	1500	22,800	28	12%	2%
19-Feb	300	1500	22,400	31	10%	2%
19-Jan	307	1500	24,000	31	11%	2%
18-Dec	329	1500	20,800	30	9%	2%
18-Nov	329	1500	20,000	31	8%	2%
18-Oct	332	1500	13,600	30	6%	1%
18-Sep	313	1500	20,400	31	9%	2%
18-Aug	240	1500	18,400	31	10%	2%
18-Jul	173	1500	14,000	30	11%	1%
18-Jun	232	1500	11,200	31	6%	1%
18-May	184	1500	9,200	30	7%	1%

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18-Apr	231	1500	10,800	31	6%	1%
18-Mar	263	1500	11,200	28	6%	1%
18-Feb	287	1500	8,800	31	4%	1%
18-Jan	261	1500	10,400	31	5%	1%
18-Dec	174	1500	10,000	30	8%	1%
17-Nov	240	1500	11,200	31	6%	1%
17-Oct	199	1500	8,400	30	6%	1%
17-Sep	171	1500	11,200	31	9%	1%
17-Aug	167	1500	11,200	31	9%	1%
17-Jul	150	1500	10,000	30	9%	1%
17-Jun	166	1500	8,400	31	7%	1%
17-May	136	1500	8,000	30	8%	1%
17-Apr	283	1500	7,600	31	4%	1%
17-Mar	255	1500	9,600	28	6%	1%
17-Feb	298	1500	10,000	31	5%	1%
17-Jan	161	1500	9,200	31	8%	1%
17-Dec	205	1500	7,200	30	5%	1%
17-Nov	192	1500	8,400	31	6%	1%
17-Oct	154	1500	8,800	30	8%	1%
17-Sep	146	1500	10,000	31	9%	1%
17-Aug	188	1500	9,200	31	7%	1%

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CYCLE MONTH	BILL DEMAND	INSTALLED CAPACITY (kW)	NET KWH	# DAYS	BILL DEMAND UTILIZATION %	INSTALLED CAPACITY UTILIZATION %
21-Jul	307	1800	41,200	30	19%	3%
21-Jun	355	1800	33,200	31	13%	2%
21-May	344	1800	33,600	30	14%	3%
21-Apr	367	1800	35,600	31	13%	3%
21-Mar	410	1800	41,600	28	15%	3%
21-Feb	341	1800	38,400	31	15%	3%
21-Jan	364	1800	36,000	31	13%	3%
20-Dec	377	1800	24,400	30	9%	2%
20-Nov	342	1800	44,800	31	18%	3%
20-Oct	284	1800	31,200	30	15%	2%
20-Sep	360	1800	30,800	31	11%	2%
20-Aug	290	1800	35,600	31	16%	3%
20-Jul	222	1800	22,800	30	14%	2%
20-Jun	192	1800	15,200	31	11%	1%
20-May	168	1800	10,000	30	8%	1%
20-Apr	300	1800	20,000	31	9%	1%
20-Mar	279	1800	38,800	29	20%	3%
20-Feb	412	1800	42,000	31	14%	3%
20-Jan	336	1800	33,600	31	13%	3%
19-Dec	382	1800	34,800	30	13%	3%
19-Nov	378	1800	40,800	31	15%	3%
19-Oct	308	1800	32,000	30	14%	2%
19-Sep	387	1800	42,800	31	15%	3%
19-Aug	309	1800	36,400	31	16%	3%
19-Jul	308	1800	27,600	30	12%	2%
19-Jun	259	1800	27,200	31	14%	2%
19-May	227	1800	22,000	30	13%	2%
19-Apr	239	1800	24,800	31	14%	2%
19-Mar	252	1800	26,000	28	15%	2%
19-Feb	259	1800	24,400	31	13%	2%
19-Jan	261	1800	22,400	31	12%	2%
18-Dec	199	1800	20,400	30	14%	2%
18-Nov	225	1800	23,200	31	14%	2%
18-Oct	212	1800	14,800	30	10%	1%
18-Sep	215	1800	20,400	31	13%	2%
18-Aug	277	1800	19,600	31	10%	1%
18-Jul	210	1800	15,200	30	10%	1%
18-Jun	193	1800	12,000	31	8%	1%
18-May	202	1800	9,200	30	6%	1%

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18-Apr	166	1800	12,000	31	10%	1%
18-Mar	170	1800	12,000	28	11%	1%
18-Feb	198	1800	10,800	31	7%	1%
18-Jan	194	1800	11,600	31	8%	1%
18-Dec	162	1800	11,200	30	10%	1%
17-Nov	202	1800	13,200	31	9%	1%
17-Oct	149	1800	9,600	30	9%	1%
17-Sep	169	1800	10,000	31	8%	1%
17-Aug	192	1800	12,800	31	9%	1%
17-Jul	157	1800	9,200	30	8%	1%
17-Jun	130	1800	9,200	31	10%	1%
17-May	123	1800	8,000	30	9%	1%
17-Apr	166	1800	7,600	31	6%	1%
17-Mar	173	1800	9,600	28	8%	1%
17-Feb	167	1800	8,400	31	7%	1%
17-Jan	191	1800	10,400	31	7%	1%
17-Dec	204	1800	7,200	30	5%	1%
17-Nov	206	1800	9,600	31	6%	1%
17-Oct	163	1800	8,400	30	7%	1%
17-Sep	153	1800	8,800	31	8%	1%
17-Aug	167	1800	11,200	31	9%	1%

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CYCLE MONTH	BILL DEMAND	INSTALLED CAPACITY (kW)	NET KWH	# DAYS	BILL DEMAND UTILIZATION %	INSTALLED CAPACITY UTILIZATION %
21-Sep	130	24	43,800	30	47%	see Note
21-Aug	123	24	35,000	31	38%	"
21-Jul	150	24	38,300	31	34%	"
21-Jun	125	24	31,600	30	35%	"
21-May	93	24	22,900	31	33%	"
21-Apr	86	24	23,600	30	38%	"
21-Mar	80	24	25,300	31	43%	"
21-Feb	73	24	20,800	28	42%	"
21-Jan	86	24	22,100	31	35%	"
20-Dec	82	24	24,600	31	40%	"
20-Nov	90	24	22,100	30	34%	"
20-Oct	103	24	28,100	31	37%	"
20-Sep	125	24	38,400	30	43%	"
20-Aug	126	24	43,300	31	46%	"
20-Jul	129	24	35,100	31	37%	"
20-Jun	119	24	29,500	30	34%	"
20-May	70	24	16,600	31	32%	"
20-Apr	79	24	23,300	30	41%	"
20-Mar	75	24	24,700	31	44%	"
20-Feb	88	24	23,600	28	40%	"
20-Jan	89	24	25,000	31	38%	"
19-Dec	70	24	21,500	31	41%	"
19-Nov	74	24	20,300	30	38%	"
19-Oct	123	24	25,100	31	27%	"
19-Sep	134	24	36,800	30	38%	"
19-Aug	144	24	40,800	31	38%	"
19-Jul	133	24	33,700	31	34%	"
19-Jun	85	24	23,300	30	38%	"
19-May	78	24	25,000	31	43%	"
19-Apr	68	24	22,900	30	47%	"
19-Mar	65	24	24,500	31	51%	"
19-Feb	70	24	22,100	28	47%	"
19-Jan	69	24	25,100	31	49%	"
18-Dec	71	24	23,000	31	44%	"
18-Nov	103	24	22,700	30	31%	"
18-Oct	102	24	24,600	31	32%	"
18-Sep	139	24	39,100	30	39%	"
18-Aug	148	24	41,200	31	37%	"