

October 11, 2023

# **BY ELECTRONIC MAIL**

Matthew C. Young, Hearings Examiner/Staff Attorney Department of Energy 21 South Fruit Street, Suite 10 Concord, NH 03301

# Re: <u>INV 2023-01 Investigative Proceeding Relative to Default Energy</u> Procurement

Dear Attorney Young:

On behalf of Unitil Energy Systems, Inc. (the "Company"), enclosed are the Company's responses to Department of Energy's (the "Department") second set of questions in the above-referenced investigation.

Please note that the following responses contain confidential and commercially sensitive information: DOE IQ 2-001(c); DOE IQ 2-004; DOE IQ 2-009 Attachment 1; and DOE IQ 2-010 Attachment 1 (the "Confidential Documents"). Specifically, the Confidential Documents include information on supplier exception requests, reasons provided by suppliers for not participating in solicitations, the number of bids received, bid prices, and the names of suppliers participating the Company's solicitations.

RSA 91-A:5(IV) expressly exempts from public disclosure requirements any records pertaining to "confidential, commercial or financial information." RSA 91-A:5, IV; *Union Leader Corp. v. New Hampshire Housing Finance Authority*, 142 N.H. 540 (1997). The information in the Confidential Documents is competitively sensitive commercial information because public disclosure of that information would provide bidders with detailed insight into the Company's procurement process, including the number, identities, and prices offered by participating bidders, and bidders could tailor their bids based on this information to the detriment of the Company and its customers. Disclosure of the

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confidential bid information (and information that can be used to derive this information) would place suppliers at a competitive disadvantage by revealing the pricing terms they offer for Default Service. It also would adversely affect the Company and its customers because bidders would be discouraged from responding to the Company's solicitations if doing so would result in the release of commercially sensitive and confidential business information. This could have the effect of increasing costs to the Company, and ultimately to customers, if the Company cannot procure or negotiate for cost-effective products and services because it cannot assure confidential, protective treatment of confidential bid information. See Granite State Electric Company, DE 12-023 (Mar. 27, 2021) at 9 (finding that disclosing bidder price information would likely impede the utility company's ability to engage suppliers in competitive bidding in the future, which would, in turn, make it more difficult to obtain its supply needs at competitive prices and might thereby increase rates to customers); North Atlantic Energy Corporation, Order No. 23,986 (June 5, 2022) at 10 ("[P]ublic disclosure of bids, bid analyses, financial assessments, and data related to the auction would chill future auction transactions, thereby limiting the results that might otherwise have been achieved."). Simply put, the information in the Confidential Documents must remain confidential to preserve the Company's ability to cost-effectively procure products and services for the benefit of customers.

The un-redacted, confidential versions of the Confidential Documents are being provided to the Department and the Office of the Consumer Advocate under separate cover.

Please do not hesitate to contact me if you have any questions regarding the enclosed materials.

Thank you for your attention to this matter.

Sincerely,

Matthe composell

Matthew C. Campbell Senior Counsel

Enclosures CC: Service List

Date Request Received: 9/20/23 Request No. DOE IQ 2-001 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### **Request:**

Do suppliers inform your utility whether they do or do not intend to bid on a solicitation?

- a. If so, how far in advance of the solicitation do suppliers inform your utility of their intent?
- b. What, if any, reasoning is provided by suppliers to your utility regarding their decision to bid or not?
- c. As applicable, please provide specific reasoning by bid opportunity in the last five years.

#### Response:

The Company utilizes the ISO-NE Markets Committee distribution list to inform suppliers of the solicitation. The distribution list consists of over one hundred market participants, but only a small subset of supplier participants actively engages with the Company in regards to the solicitation. Typically, the most active suppliers will inform the Company of their bidding intentions.

- a. Typically, suppliers will inform the utility of their decision to participate within the week after release of the solicitation.
- b. Suppliers who plan to bid typically express their interest to the Company within the first week of the process. The reasoning for participating in the solicitation is usually conveyed by the supplier expressing interest in bidding and serving load in UES territory. The reasons for not participating have included short staffing on the supplier's end, market risks associated with certain costs to serve load (difficulty in hedging Mystic Cost of Service costs), winter price volatility, and lack of interest in supplying a fixed adder for the large customer group.

Date Request Received: 9/20/23 Request No. DOE IQ 2-001 Date of Response: 10/11/23 Contact: Jeff M. Pentz

c. Please see the table below.

Solicitation	Supplier	Reason Not Bidding
March 2018		
March 2018		
March 2019		
March 2019		
March 2019		
March 2020		
March 2020		
September 2020		
March 2021		
March 2022		
September 2022		
September 2022		
September 2022		
May 2023		

Date Request Received: 9/20/23 Request No. DOE IQ 2-002 Date of Response: 10/11/23 Contact: Jeff M. Pentz

# Request:

Does your utility conduct any formal or informal interviews with suppliers for feedback regarding their participation or lack of participation in solicitations?

- a. If so, what feedback has been received in the last five years?
- b. As applicable, please provide specific feedback by solicitation in the last five years.

# **Response:**

- a. Informal discussions are held for any suppliers who are interested in providing feedback either through email or by phone communication.
- b. Specific feedback from suppliers is provided in the Company's responses to DOE IQ 2-001 and DOE IQ 2-004.

Date Request Received: 9/20/23 Request No. DOE IQ 2-003 Date of Response: 10/11/23 Contact: Jeff M. Pentz

# **Request:**

Is there an informal opportunity for suppliers to provide feedback outside of typical solicitation processes?

a. If so, how do suppliers identify exceptions, express concerns, or otherwise provide feedback on future or past solicitations?

b. As applicable, please provide specific feedback provided by suppliers, by date, in the last five years.

#### **Response:**

- a. Please refer to the Company's responses to DOE IQ 2-001 and DOE IQ 2-004.
- b. Please refer to the Company's response DOE IQ 2-001 and DOE IQ 2-004.

Date Request Received: 9/20/23 Request No. DOE IQ 2-004 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### **Request:**

Please provide a list of requested exceptions in the last five years by solicitation and indicate whether the exception was granted, rejected, or addressed in another manner. For each requested exception, please identify the name of the bidder/supplier making the request and whether they ultimately submitted a bid.

#### Response:

Solicitation	Supplier	Exception Request	Granted	Final Bid
March 2019				
September 2022				
May 2023				

Date Request Received: 9/20/23 Request No. DOE IQ 2-005 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### **Request:**

Please provide the complete timeline for default service solicitation from the time in which first notification of the RFP is posted up to contract execution by the New Hampshire Public Utilities Commission (Commission). (Please detail all intermediary steps, including notices requests for questions or comments, reply deadlines, timelines between bid receipt and review, etc.).

#### **Response:**

The Company has provided a sample timeline below from its Spring 2023 RFP document, which details all dates and steps related to the solicitation. Historical solicitations have all followed this timeline in general.

Indicative bids are due two weeks after the release of the RFP. Final bids are due two weeks after indicative bids are due, which overall provides a four-week timeline between when the RFP is issued and when final bids are due. Final bids are due at 10:00 A.M. EPT, with awards being communicated to suppliers 1:00 P.M. EPT the same day. Contracts are generally executed one to two business days after final bids are awarded.

Process Step	Date
Issue Default Service RFP	Tuesday, May 9, 2023
Non-Disclosure Agreement Due	Tuesday, May 23, 2023, 3:00 p.m.
Proposal Forms & Indicative Pricing Due (including proposed contract changes)	Tuesday, May 23, 2023
Final Pricing Due	Tuesday, June 6, 2023, 10:00 a.m.
Winning Supplier Notified	Tuesday, June 6, 2023, 1:00 p.m.
Contracts Executed	Thursday, June 8, 2023
File for Approval of Rates	Friday, June 9, 2023
Anticipated Approval of Rates	Friday, June 16, 2023
UES DS Commences	Thursday, August 1, 2023

Date Request Received: 9/20/23 Request No. DOE IQ 2-006 Date of Response: 10/11/23 Contact: Jeff M. Pentz

# **Request:**

Has any element of the timeline for default service solicitation changed in the last five years? If so, please explain the nature and timing of the changes.

# **Response:**

No element of the solicitation timeline has changed in last five years.

Date Request Received: 9/20/23 Request No. DOE IQ 2-007 Date of Response: 10/11/23 Contact: Jeff M. Pentz

# **Request:**

Has the Commission ever rejected a default service auction bid put forth by your utility (i.e., after the utility has selected the supplier and bid)?

# **Response:**

The Commission has never rejected a Default Service winning bid put forth by UES.

Date Request Received: 9/20/23 Request No. DOE IQ 2-008 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### **Request:**

In your view, does the existing procurement period timeline make any of the ISO-NE charges difficult for suppliers to estimate for purposes of submitting a bid? Does the existing procurement period timeline make any of the ISO-NE charges difficult for your utility to construct the threshold/proxy price.

#### **Response:**

The solicitation timeline as explained in DOE IQ 2-005 likely would not have any material impact on suppliers estimating costs to serve load. The nature of how certain ISO-NE charges (such as Mystic Cost of Service and Inventoried Energy Program), are allocated would be a significant factor in the difficulty of suppliers hedging those costs.

Date Request Received: 9/20/23 Request No. DOE IQ 2-009 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### **Request:**

Please provide all actual bids received, by bidder, customer group, and solicitation, during the last five years. For each bid, please identify the name of the bidder/supplier, the number of tranches proposed, the applicable customer group, the applicable solicitation, and any exceptions/conditions.

#### **Response:**

Bidding activity by entity, customer group, and solicitation periods are provided in the excel attachment accompanying this response (DOE IQ 2-009 Attachment 1). Unitil has historically and continues to procure power supply in one tranche per customer group. Unitil has not accepted proposed exceptions to the solicitation process proposed by any bidder.

INV 2023-001 DOE IQ 2-009 Attachment 1 Page 1 of 4

Supplier Name	Name Kev

INV 2023-001 DOE IQ 2-009 Attachment 1 Page 2 of 4

Service Period
December 2017 - May 2018
June 2018 - November 2018
December 2018 - May 2019
June 2019 - November 2019
December 2019 - May 2020
June 2020 - November 2020
December 2020 - May 2021
June 2021 - November 2021
December 2021 - May 2022
June 2022 - November 2022
December 2022 - July 2023
August 2023 - January 2024

INV 2023-001 DOE IQ 2-009 Attachment 1 Page 3 of 4

December 2017 - May 2018
June 2018 - November 2018
December 2018 - May 2019
June 2019 - November 2019
December 2019 - May 2020
June 2020 - November 2020
December 2020 - May 2021
June 2021 - November 2021
December 2021 - May 2022
June 2022 - November 2022
December 2022 - July 2023
August 2023 - January 2024

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Service Period	
December 2017 - May 2018	
June 2018 - November 2018	
December 2018 - May 2019	
June 2019 - November 2019	
December 2019 - May 2020	
June 2020 - November 2020	
December 2020 - May 2021	
June 2021 - November 2021	
December 2021 - May 2022	
June 2022 - November 2022	
December 2022 - July 2023	
August 2023 - January 2024	

Date Request Received: 9/20/23 Request No. DOE IQ 2-010 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### Request:

Please share your utility's threshold/proxy price for the last five years of solicitations for each customer class, including all associated workpapers used to calculate the price.

#### **Response:**

Unitil does not calculate a threshold proxy price going into a solicitation, however the Company does use historical Ratio Analysis to assess the reasonableness of bids. Ratio Analysis involves comparing the winning final bid prices to NYMEX over-the-counter futures contracts for ISO New England averaged on-and-off peak electric futures. Further detail describing ratio analysis can be found in response DOE IQ 1-009, and the calculation details are presented in DOE IQ 2-011.

The five-year history of ratios for Non-G1 customers is provided in the excel attachment (DOE IQ 2-010 Attachment 1).

INV 2023-001 DOE IQ 2-010 Attachment 1 Page 1 of 1

Loads         Profe         NVMEX         NVMEX         Energy         Bid Price         NVMEX         Six-Month           12010         56.403	Non-G1		\$/MWH	\$/MWH		<b>1</b>	1			
20701       96.432         20701       96.830         20701       91.800         20701       91.800         20701       91.800         20701       91.800         20701       91.800         20701       7.300         20701       8.670         20701       8.670         20701       8.670         20701       6.712         20701       6.771         20701       6.773         20701       6.773         20701       6.773         20701       6.773         20701       6.773         20701       6.773         20701       6.773         20701       6.736         20701       6.736         20701       6.737         20701       6.737         20701       6.738         20701       6.738         20701       6.738         20701       6.744         20702       6.744         20702       6.744         20702       6.745         20702       6.745         20702       6.745	Month of Service	and the second	Price (Non-G1	On Peak NYMEX ISO One Day Prior	Final Bid to NYMEX	and the second se				Average Six-Month
20761       55.898         20781       43.844         20781       43.844         20781       43.844         20781       43.844         20781       43.844         20781       43.847         20781       45.6707         12018       65.607         12018       65.607         12018       65.607         12018       65.607         12019       67.712         12019       67.712         12019       67.702         12019       67.702         12019       67.702         12019       67.702         12019       64.868         12019       64.868         12019       64.868         12019       64.808         12019       64.808         12020       64.007         12020       64.404         12020       64.804         12020       64.804         12020       64.804         12020       64.804         12020       64.804         12020       64.804         12020       64.804         12020       64.805 <td>12/1/2017</td> <td>53,279</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	12/1/2017	53,279								
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2749       62.361         12919       62.370         12019       52.870         12019       52.870         12019       55.151         12020       64.440         12020       64.440         12020       53.101         12020       54.444         12020       54.444         12020       54.444         12020       54.647         12020       54.647         12020       54.647         12020       54.647         12020       54.647         12020       54.647         12021       52.244         12021       52.244         12021       52.447         12021       52.447         12021       50.816         12021       52.447         12021       50.816         12021       50.816         12021       50.816         12021       50.816         12021       50.816         12021       50.816         12021       50.816         12021       50.816         12021       51.132         12022       51.132	5/1/2019									
12019       67.002         12019       64.993         12019       44.082         12019       64.993         12019       64.061         12020       64.246         12020       64.244         12020       64.444         12020       65.465         12020       65.465         12020       65.465         12020       65.465         12020       65.465         12020       65.465         12020       65.465         12020       65.465         12020       65.465         12020       65.465         12020       65.465         12020       65.465         12021       65.465         12021       65.465         12021       65.467         12021       65.467         12021       65.467         12021       65.467         12021       65.467         12021       65.467         12021       65.467         12021       65.467         12021       65.467         12021       65.467         12022       64.746 <td></td>										
12019       52,879         12019       54,493         12020       64,494         12020       64,007         12020       54,444         12020       54,444         12020       54,444         12020       54,444         12020       54,230         12020       54,645         12020       56,465         12020       56,863         12020       58,683         12020       54,524         12020       54,524         12020       58,683         12020       54,584         12021       54,584         12021       54,584         12021       54,584         12021       54,584         12021       54,687         12021       54,687         12021       57,648         12021       54,687         12021       56,181         12021       54,687         12021       56,181         12021       57,184         12021       56,181         12021       56,181         12021       56,181         12021       56,181 <td>7/1/2019</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	7/1/2019									
12019 54.983 12019 48.082 12019 55.151 2202 64.944 2202 50.230 2202 54.444 2202 50.230 2202 65.463 2202 65.465 2202 65.465 2202 65.465 2202 16.04 2202 55.883 2202 16.04 2202 15.452 2202 15.452 2202 12020 48.417 2202 15.452 2202 15.152 2002 15.152 2002 15.152 2002 15.152 2002 15.152 2002 15.152 2002 15.152 2002 15.152 2002 15.152 2002 15.152 2002 15.152 2002 15.152 200 2002 15.152 200 2002 15.152 200 2002 15.152 200 2002 15.152 200 2002 15.152 200 2002 15.152 200 200 2002 15.152 200 200 2002 15.152 200 200 2002 15.152 200 200 200 2002 15.152 200 200 200 200 200 200 200 200 200 2	9/1/2019									
12019       43.082         12019       43.082         12020       43.44         12020       43.44         12020       54.444         12020       54.444         12020       54.444         12020       54.444         12020       54.444         12020       55.465         12020       56.465         12020       56.465         12020       56.465         12020       56.863         12020       48.282         12020       62.244         12021       62.244         12021       62.244         12021       62.244         12021       62.244         12021       62.444         12021       60.168         12021       60.168         12021       60.168         12021       60.168         12021       60.168         12021       60.168         12021       60.168         12021       60.168         12021       60.168         12021       60.168         12022       61.901         12023       61.901	0/1/2019							Sec.		
2020       64,846         2020       54,44         2020       54,44         2020       54,661         2020       56,863         2020       66,863         2020       62,281         2020       62,281         2020       62,281         2020       63,663         2020       64,663         2020       64,663         2020       64,670         2020       64,683         2020       64,670         2020       64,671         2021       62,281         2022       64,77         2021       64,672         2021       65,467         2021       65,467         2022       69,012         2021       65,467         2022       64,739         2022       64,71         2022       64,739         2022       64,739         2023       64,71         2024       64,865         2025       51,410         2022       59,403         2022       51,101         2022       51,101         2022 <td></td>										
2222       61,007         2224       61,007         2220       52,200         2202       64,444         2202       62,444         2202       62,465         2202       63,663         1/2020       48,417         1/2020       48,417         1/2020       48,417         1/2020       48,417         1/2021       62,244         1/2021       62,243         1/2021       54,524         1/2021       54,524         1/2021       54,524         1/2021       54,524         1/2021       54,524         1/2021       54,524         1/2021       54,524         1/2021       56,487         1/2021       56,487         1/2021       56,487         1/2021       54,681         1/2021       54,683         1/2021       54,683         1/2021       54,683         1/2022       57,443         1/2022       54,744         1/2022       57,434         1/2023       57,344         1/2024       54,754         1/2025	2/1/2019	55,151							1	
1202       54.444         1202       50.230         1202       45.070         1202       55.981         1202       56.863         12020       48.292         12020       48.292         12020       48.417         12020       68.633         12020       68.283         12021       62.281         12022       54.524         12021       62.283         12021       62.686         12021       62.687         12021       63.687         12021       67.064         12021       67.064         12021       67.064         12021       67.064         12021       67.064         12021       67.064         12021       67.064         12021       67.132         12022       56.487         12021       67.141         12022       56.487         12021       57.132         12022       57.441         12022       51.110         12022       51.116         12023       51.126         12024       48.733	1/1/2020									
2222       50,230         2202       46,070         2202       52,91         2202       56,465         2202       56,63         1/2020       48,292         1/2020       48,292         1/2020       48,292         1/2020       48,292         1/2020       48,292         1/2020       48,292         1/2021       62,244         1/2021       52,452         1/2021       51,458         1/2021       55,487         1/2021       56,487         1/2021       56,487         1/2021       56,487         1/2021       56,487         1/2021       56,487         1/2021       56,487         1/2021       56,487         1/2021       56,487         1/2021       56,487         1/2022       61,901         1/2022       57,132         1/2022       57,132         1/2022       57,134         1/2022       57,143         1/2022       57,143         1/2023       51,116         1/2024       54,511         1/2025	2/1/2020	-	-							
12020     46.070       12020     52.981       12020     63.465       12020     63.603       12020     43.417       12020     43.417       12020     43.417       12020     63.633       12021     62.281       12021     62.281       12021     62.281       12021     62.281       12021     63.524       12021     63.524       12021     63.636       12021     63.6487       12021     56.487       12021     56.487       12021     56.487       12021     56.487       12021     56.487       12021     56.487       12021     56.487       12021     56.487       12021     56.487       12021     56.487       12021     56.487       12021     56.487       12022     51.10       12022     51.132       12022     50.014       12022     57.434       12022     57.101       12022     57.101       12023     57.239       12024     47.861       12025     57.104       12024     57.239	4/1/2020		-					1.1.1.1		
2202       65.465         2202       68.683         1/2020       48.417         1/2020       48.417         1/2020       48.417         1/2020       62.838         2/2021       62.633         2/2021       62.6487         2/2021       63.6487         2/2021       67.468         2/2021       67.468         2/2021       67.468         2/2021       67.468         2/2021       67.6487         2/2021       67.6487         2/2021       67.6487         2/2021       67.6487         2/2021       67.6487         2/2021       67.6487         2/2021       67.6487         2/2021       67.6487         2/2021       67.6487         2/2021       67.6487         2/2021       67.901         2/2022       59.300         2/2022       59.300         2/2022       59.4387         2/2022       59.4387         2/2022       59.4377         2/2022       57.434         2/2023       57.239         2/2024       57.434 <tr< td=""><td>5/1/2020</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	5/1/2020									
I2020       61,604         I2020       56,663         I/2020       42,922         I/2020       62,281         I/2021       62,283         I/2021       62,244         I/2021       54,524         I/2021       54,524         I/2021       54,524         I/2021       54,687         I/2021       56,487         I/2021       61,128         I/2022       61,132         I/2022       61,301         I/2022       59,300         I/2022       51,132         I/2022       54,283         I/2022       51,132         I/2022       57,434         I/2022       57,434         I/2023       57,239         I/2024       57,239         I/2023       57,239         I/2024       57,239         I/2023       57,239         I/2024       57,334         I	6/1/2020									
I2020       56,863         I2020       48,292         I/2024       48,292         I/2024       48,292         I/2024       62,281         I/2021       62,284         I/2021       62,244         I/2021       51,458         I/2021       51,458         I/2021       56,487         I/2021       56,487         I/2021       56,487         I/2021       56,487         I/2021       56,487         I/2021       56,487         I/2021       54,548         I/2021       56,487         I/2021       59,300         I/2022       59,300         I/2022       59,300         I/2022       51,132         I/2022       59,300         I/2022       54,283         I/2022       51,132         I/2022       57,334         I/2022       57,334         I/2023       57,239         I/2024       54,354         I/2023       57,239         I/2024       54,354         I/2023       54,354         I/2024       54,354         I	7/1/2020									
1/2020       48,477         1/2020       62,281         1/2021       62,283         1/2021       62,244         1/2021       54,524         1/2021       54,524         1/2021       54,524         1/2021       54,584         1/2021       54,584         1/2021       54,584         1/2021       54,584         1/2021       54,584         1/2021       54,684         1/2021       50,816         1/2021       50,816         1/2021       50,816         1/2021       50,644         1/2021       50,644         1/2021       50,647         1/2022       51,112         1/2022       51,132         1/2022       51,1132         1/2022       51,110         1/2022       57,434         1/2023       63,602         1/2023       57,239         1/2023       57,239         1/2023       54,354         1/2023       54,354         1/2023       54,354         1/2023       54,354         1/2023       54,354 <t< td=""><td>8/1/2020</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	8/1/2020									
1/2020       48,417         1/2020       62,281         1/2021       62,339         1/2021       62,339         1/2021       62,244         1/2021       62,244         1/2021       54,524         1/2021       54,524         1/2021       51,458         1/2021       50,816         1/2021       50,816         1/2021       56,487         1/2021       56,487         1/2021       67,664         1/2021       67,064         1/2021       47,486         1/2022       59,300         1/2022       59,300         1/2022       51,1901         1/2022       59,300         1/2022       59,300         1/2022       54,283         1/2022       54,283         1/2022       51,112         1/2022       51,112         1/2022       57,434         1/2023       57,239         1/2023       57,239         1/2023       57,239         1/2023       54,354         1/2023       54,354         1/2023       54,354 <t< td=""><td>9/1/2020</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.1.1</td><td></td><td></td></t<>	9/1/2020							1.1.1		
1/2020       62.281         1/2021       62.244         1/2021       62.244         1/2021       54.524         1/2021       51.458         1/2021       50.816         1/2021       56.487         1/2021       67.064         1/2021       67.064         1/2021       67.064         1/2021       67.064         1/2021       59.483         1/2022       59.300         1/2022       54.283         1/2022       54.385         1/2022       54.385         1/2022       54.385         1/2022       54.385         1/2022       54.385         1/2022       54.385         1/2022       50.014         1/2022       50.014         1/2022       54.477         1/2022       57.434         1/2023       51.110         1/2023       57.239         1/2023       57.239         1/2023       54.245         1/2023       54.354         1/2023       54.354         1/2023       54.354         1/2023       54.255 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></td<>										-
12021       62,839         12021       62,244         12021       54,524         12021       51,458         12021       51,458         12021       50,816         12021       50,816         12021       50,816         12021       50,816         12021       50,816         12021       50,816         12021       65,487         12021       67,064         12021       47,466         12022       51,132         12022       50,300         12022       50,301         12022       50,301         12022       50,301         12022       50,301         12022       50,014         12022       50,014         12022       50,301         12022       50,301         12022       51,132         12022       51,310         12022       51,321         12022       51,334         12023       63,237         12023       57,239         12023       54,354         12023       54,354         12023       57,022 <td>2/1/2020</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2/1/2020									
12021       54,524         12021       51,458         12021       50,816         12021       50,816         12021       56,487         12021       67,064         12021       67,064         12021       67,064         12021       67,064         12021       67,064         12021       67,064         12021       67,064         12021       67,064         12021       67,064         12022       54,381         12022       54,283         12022       54,283         12022       54,283         12022       54,283         12022       51,132         12022       50,014         12022       50,014         12022       51,110         12022       51,110         12022       57,434         12023       57,239         12023       51,116         12023       51,116         12023       54,354         12023       54,354         12023       54,354         12023       54,354         12023       57,239 <td>1/1/2021</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.0</td> <td></td> <td></td>	1/1/2021							1.0		
1/2021       51,458         1/2021       47,389         1/2021       50,816         1/2021       50,816         1/2021       50,816         1/2021       56,487         1/2021       45,181         1/2021       45,181         1/2021       47,466         1/2021       59,483         1/2022       59,300         1/2022       54,283         1/2022       54,283         1/2022       50,014         1/2022       50,014         1/2022       56,477         1/2022       57,434         1/2023       51,110         1/2022       57,434         1/2023       51,116         1/2023       51,116         1/2023       51,116         1/2023       51,116         1/2023       54,255         1/2023       54,354         1/2023       54,354         1/2023       54,354         1/2023       54,354         1/2023       57,239         1/2023       54,354         1/2023       54,354         1/2023       57,222	2/1/2021									
12021       47,389         12021       50,816         12021       50,816         12021       56,487         12021       67,064         12021       45,181         112021       45,181         112021       45,181         112022       19,001         12022       59,300         12022       54,283         12022       54,283         12022       50,014         12022       50,014         12022       56,477         12022       51,110         12022       51,110         12022       51,110         12022       51,110         12023       53,237         12023       51,116         12023       51,116         12023       48,733         12023       54,255         12023       54,354         12023       54,354         12023       54,354         12023       54,354         12023       54,354         12023       54,354         12023       54,354         12023       57,428         12023       57,222<	3/1/2021							1.		
12021       50,816         12021       65,487         12021       67,064         12021       60,128         1/2021       47,466         1/2021       47,466         1/2022       61,901         1/2022       54,283         1/2022       54,283         1/2022       54,283         1/2022       54,283         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       57,0399         1/2023       57,239         1/2023       57,239         1/2023       57,239         1/2023       57,239         1/2023       54,354         1/2023       47,800         1/2023       47,800         1/2023       57,022								1	1	-
1/2021       56,487         1/2021       67,064         1/2021       67,064         1/2021       45,181         1/2021       45,181         1/2021       45,483         1/2022       45,943         1/2022       59,300         1/2022       59,300         1/2022       59,300         1/2022       54,283         1/2022       51,132         1/2022       50,014         1/2022       50,014         1/2022       56,477         1/2022       51,110         1/2022       57,434         1/2023       63,602         1/2023       51,110         1/2023       51,110         1/2023       51,110         1/2023       51,116         1/2023       51,116         1/2023       48,733         1/2023       54,354         1/2023       54,354         1/2023       54,354         1/2023       57,022	5/1/2021									_
1/2021       67,064         1/2021       46,181         1/2021       45,181         1/2021       47,466         1/2021       59,483         1/2022       59,483         1/2022       59,483         1/2022       59,483         1/2022       59,483         1/2022       59,483         1/2022       59,483         1/2022       59,483         1/2022       54,283         1/2022       51,132         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       51,110         1/2022       51,110         1/2022       57,434         1/2023       51,116         1/2023       51,116         1/2023       51,239         1/2023       51,733         1/2023       49,611         1/2023       54,354         1/2023       54,354         1/2023       57,022	/1/2021									
1/2021       45,181         1/2021       47,466         1/2021       59,483         1/2022       59,001         1/2022       54,283         1/2022       54,283         1/2022       51,132         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       56,477         1/2022       57,434         1/2022       57,434         1/2023       63,602         1/2023       57,239         1/2023       48,733         1/2023       48,733         1/2023       48,733         1/2023       47,839         1/2023       47,839         1/2023       47,830         1/2023       57,022	3/1/2021									
1/2021       47,466         1/2022       59,483         1/2022       61,901         1/2022       59,300         1/2022       54,283         1/2022       54,283         1/2022       54,283         1/2022       54,283         1/2022       54,283         1/2022       54,283         1/2022       50,014         1/2022       62,434         1/2022       50,014         1/2022       56,477         1/2022       51,110         1/2022       51,110         1/2022       57,434         1/2023       63,237         1/2023       57,239         1/2023       51,116         1/2023       54,354         1/2023       54,354         1/2023       54,354         1/2023       47,830         1/2023       47,830         1/2023       57,022	9/1/2021							31.1		
1/2021       59,483         /2022       61,901         /2022       59,300         /2022       54,283         /2022       51,132         /2022       24,885         /2022       25,014         /2022       50,014         /2022       50,014         /2022       50,014         /2022       50,477         //2022       56,477         //2022       51,110         //2023       63,237         /2023       57,239         //2023       57,239         //2023       57,239         //2023       63,237         //2023       49,611         //2023       63,245         //2023       64,455         //2023       64,455         //2023       54,354         //2023       54,354         //2023       57,022	0/1/2021							-		-
1/2022       61,901         1/2022       59,300         1/2022       54,283         1/2022       51,132         1/2022       51,132         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,014         1/2022       50,434         1/2022       51,110         1/2023       51,110         1/2023       57,239         1/2023       57,239         1/2023       51,116         1/2023       54,354         1/2023       54,354         1/2023       54,354         1/2023       54,354         1/2023       57,022	1/1/2021									
1/2022       59,300         1/2022       54,283         1/2022       51,132         1/2022       45,865         1/2022       50,014         1/2022       50,014         1/2022       52,434         1/2022       56,477         1/2022       56,477         1/2022       57,434         1/2023       57,434         1/2023       57,434         1/2023       57,239         1/2023       57,239         1/2023       51,116         1/2023       49,6111         1/2023       62,455         1/2023       63,237         1/2023       54,354         1/2023       54,354         1/2023       57,022	/1/2021							1.1.1		
1/2022       54,283         1/2022       51,132         1/2022       45,865         1/2022       50,014         1/2022       62,434         1/2022       62,434         1/2022       56,477         1/2022       57,434         1/2023       63,602         1/2023       57,434         1/2023       57,434         1/2023       57,239         1/2023       57,239         1/2023       57,239         1/2023       49,611         1/2023       49,611         1/2023       62,455         1/2023       54,354         1/2023       54,354         1/2023       47,839         1/2023       57,022	/1/2022									
1/2022       51,132         1/2022       45,865         1/2022       50,014         1/2022       62,434         1/2022       70,399         1/2022       56,477         1/2022       51,110         1/2022       57,434         1/2023       63,602         1/2023       57,239         1/2023       57,239         1/2023       51,116         1/2023       48,733         1/2023       63,6451         1/2023       69,228         1/2023       54,354         1/2023       47,839         1/2023       47,800	3/1/2022									
1/2022       50,014         1/2022       62,434         1/2022       70,399         1/2022       56,477         1/2022       47,477         1/2022       51,110         1/2023       63,602         1/2023       63,237         1/2023       57,239         1/2023       51,116         1/2023       48,733         1/2023       63,2455         1/2023       69,228         1/2023       47,839         1/2023       47,839         1/2023       47,830         1/2023       57,022	1/1/2022	51,132						_		_
1/2022       62,434         1/2022       70,399         1/2022       56,477         1/2022       51,110         1/2022       51,110         1/2023       63,602         1/2023       63,602         1/2023       57,239         1/2023       57,239         1/2023       51,116         1/2023       48,733         1/2023       63,6411         1/2023       69,228         1/2023       54,354         1/2023       47,839         1/2023       47,839         1/2023       57,022	6/1/2022									
1/2022       70,399         1/2022       56,477         1/2022       47,477         1/2022       51,110         1/2023       63,602         1/2023       63,237         1/2023       57,239         1/2023       51,116         1/2023       51,116         1/2023       62,455         1/2023       62,455         1/2023       54,354         1/2023       57,022	6/1/2022									
1/2022       56,477         1/2022       47,477         1/2022       51,110         1/2023       57,434         1/2023       63,602         1/2023       57,239         1/2023       51,116         1/2023       51,116         1/2023       48,733         1/2023       62,455         1/2023       54,354         1/2023       57,022	7/1/2022 B/1/2022									
1/2022       47,477         1/2022       51,110         1/2023       57,434         /2023       63,602         /2023       63,237         /2023       57,239         /2023       51,116         /2023       48,733         /2023       48,733         /2023       62,455         /2023       54,354         /2023       54,354         /2023       57,022	9/1/2022									
1/2022       51,110         1/2023       57,434         /2023       63,602         /2023       63,237         /2023       57,239         /2023       51,116         /2023       51,116         /2023       48,733         /2023       48,733         /2023       62,455         /2023       69,228         /2023       54,354         /1/2023       47,839         /1/2023       57,022								C	<u> </u>	
/2023       63,602         /2023       63,237         /2023       57,239         /2023       51,116         /2023       48,733         /2023       49,611         /2023       62,455         /2023       69,228         /2023       54,354         /2023       47,839         //2023       47,800         //2023       57,022	1/1/2022	51,110								
/2023       63,237         /2023       57,239         /2023       51,116         /2023       48,733         /2023       49,611         /2023       62,455         /2023       69,228         /2023       54,354         1/2023       47,839         1/2023       57,022										
/2023       57,239         /2023       51,116         /2023       48,733         /2023       49,611         /2023       62,455         /2023       69,228         /2023       54,354         1/2023       47,839         1/2023       57,022	1/1/2023									
/2023       51,116         /2023       48,733         /2023       49,611         /2023       62,455         /2023       69,228         /2023       54,354         1/2023       47,839         1/2023       47,800         1/2023       57,022	2/1/2023									
/2023       48,733         /2023       49,611         /2023       62,455         /2023       69,228         /2023       54,354         //2023       54,354         //2023       47,839         //2023       57,022	/1/2023									
/2023       49,611         /2023       62,455         /2023       69,228         /2023       54,354         1/2023       47,839         1/2023       47,800         1/2023       57,022	5/1/2023									
/2023       62,455         /2023       69,228         /2023       54,354         //2023       47,839         //2023       47,800         //2023       57,022	/1/2023									
/2023       54,354         1/2023       47,839         1/2023       47,800         1/2023       57,022	7/1/2023	62,455								
1/2023 47,839 1/2023 47,800 1/2023 57,022	8/1/2023									1227
1/2023 47,800 1/2023 57,022	9/1/2023									
1/2023 57,022										
		-								
	1/1/2024							\$		

Service Period	Season	Weighted Average Six- Month Ratio
Dec 2017 - May 2018	WINTER	
June 2018 - Nov 2018	SUMMER	
Dec 2018 - May 2019	WINTER	
June 2019 - Nov 2019	SUMMER	
Dec 2019 - May 2020	WINTER	
June 2020 - Nov 2020	SUMMER	
Dec 2020 - May 2021	WINTER	
June 2021 - Nov 2021	SUMMER	
Dec 2021 - May 2022	WINTER	
June 2022 - Nov 2022	SUMMER	
Dec 2022 - July 2023	WINTER/PARTIAL SUMMER	
Aug 2023 - Jan 2024	SPLIT	

Date Request Received: 9/20/23 Request No. DOE IQ 2-011 Date of Response: 10/11/23 Contact: Jeff M. Pentz

# Request:

Please explain how each component of the threshold/proxy price is calculated.

#### Response:

As explained in the Company's response to DOE IQ 2-010, the Company does not calculate a threshold/proxy price. However, the Company does use historical ratio analysis to assess the reasonability of bids.

First, the Company averages together the winning monthly bid prices for the Small Customer Group and the Medium Customer Group, known as "Non-G1" customers. A weighted average six month bid price is then calculated using forecasted "evaluation loads". Second, the Company calculates on-peak and off-peak monthly average futures prices based on NYMEX forwards. A weighted average six-month NYMEX futured price is then calculated. Finally, the weighted average six month bid price is divided by the weighted average six-month NYMEX forwards to calculate a ratio of the winning bid price to NYMEX forwards.

Date Request Received: 9/20/23 Request No. DOE IQ 2-012 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### Request:

Please provide migration reports for the last five years that separate supply served under an aggregation from other third-party supply. Please maintain the existing migration breakdown by customer group, rate schedule, and period for both customer count and load.

# **Response:**

Please reference the excel attachment (DOE IQ 2-012 Attachment 1) for historical migration reports.

# Unitil Energy Systems, Inc. Customer Migration Report

		Competitive	e Generation Sales		
Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Aug-18	6,179,566	14,375,583	29,795,642	298,156	50,648,947
Sep-18	5,185,395	12,858,445	27,580,167	299,052	45,923,059
Oct-18	4,007,879	11,210,521	25,741,820	298,709	41,258,929
Nov-18	4,147,344	10,182,900	22,801,718	301,567	37,433,529
Dec-18	5,124,133	11,246,861	23,769,363	294,037	40,434,394
Jan-19	5,427,643	11,237,955	23,718,679	295,214	40,679,491
Feb-19	4,922,020	10,960,194	23,390,010	294,115	39,566,339
Mar-19	4,578,703	10,736,432	22,608,850	289,809	38,213,794
Apr-19	3,943,840	10,683,065	23,482,128	293,926	38,402,959
May-19	3,571,623	10,433,590	23,341,009	290,780	37,637,002
Jun-19	3,396,151	10,942,590	23,300,454	296,063	37,935,258
Jul-19	4,938,674	13,893,143	26,248,180	286,303	45,366,300
Aug-19	5,163,508	14,091,609	25,837,446	293,235	45,385,798
Sep-19	3,572,695	11,258,787	22,070,691	298,014	37,200,187
Oct-19	3,559,515	11,669,183	24,128,945	295,001	39,652,644
Nov-19	3,425,923	10,212,865	21,103,905	293,237	35,035,930
Dec-19	4,265,592	10,954,715	21,374,546	304,619	36,899,472
Jan-20	4,700,736	11,556,744	22,722,698	295,537	39,275,715
Feb-20	4,233,583	11,382,280	22,956,780	291,501	38,864,144
Mar-20	4,036,246	11,321,289	23,087,184	290,032	38,734,751
Apr-20	3,539,194	8,641,381	19,396,839	286,692	31,864,106
May-20	3,308,273	8,554,861	19,276,377	290,675	31,430,186
Jun-20	3,878,229	11,001,923	22,795,270	287,960	37,963,382
Jul-20	4,703,510	12,537,785	24,066,683	288,762	41,596,740
Aug-20	5,025,157	12,585,000	24,802,949	285,841	42,698,947
Sep-20	3,830,566	11,844,205	24,763,811	277,727	40,716,309
Oct-20	2,804,991	9,315,571	20,682,774	257,999	33,061,335
Nov-20	3,120,292	9,377,219	20,508,686	260,739	33,266,936
Dec-20	4,062,226	10,580,209	21,594,681	261,598	36,498,714
Jan-21	4,278,597	10,629,570	21,446,857	265,177	36,620,201
Feb-21	4,170,059	10,982,775	21,550,828	264,772	36,968,434
Mar-21	4,147,182 3,037,129	11,693,985	23,288,857	266,555	39,396,579
Apr-21		10,017,074	20,951,523	261,384	34,267,110
May-21 Jun-21	2,933,500 3,609,781	10,423,956 12,160,749	21,710,128 24,078,622	261,483 254,935	35,329,067 40,104,087
Jul-21	4,142,614	12,963,006	24,870,237	257,551	42,233,408
Aug-21	4,142,014	13,072,973	25,457,909	261,350	42,903,863
Sep-21	3,932,542	12,748,683	25,789,135	261,177	42,731,537
Oct-21	2,813,733	10,607,662	21,676,792	258,308	35,356,495
Nov-21	2,881,974	9,826,586	20,296,267	255,736	33,260,563
Dec-21	3,700,400	10,638,778	21,522,291	252,960	36,114,429
Jan-22	4,331,914	11,373,471	21,817,414	251,656	37,774,455
Feb-22	4,023,246	10,949,217	21,792,206	252,992	37,017,661
Mar-22	3,870,882	10,899,316	21,985,561	240,751	36,996,510
Apr-22	3,273,835	10,086,686	20,481,385	209,377	34,051,283
May-22	3,218,206	10,509,899	21,683,653	202,899	35,614,657
Jun-22	3,500,375	11,611,107	23,480,054	200,324	38,791,860
Jul-22	4,273,979	13,112,470	24,496,634	201,440	42,084,523
Aug-22	5,154,932	14,453,964	26,957,718	200,561	46,767,175
Sep-22	3,794,741	12,860,402	24,670,643	199,127	41,524,913
Oct-22	2,862,084	10,375,882	21,107,218	198,498	34,543,682
Nov-22	2,933,584	10,238,312	21,191,065	199,947	34,562,908
Dec-22	3,879,422	10,672,352	21,156,116	202,081	35,909,971
Jan-23	4,730,373	12,110,418	22,112,508	212,870	39,166,169
Feb-23	4,608,701	12,237,717	22,584,391	214,437	39,645,246
Mar-23	4,709,408	12,160,978	21,865,056	208,448	38,943,890
Apr-23	4,372,897	11,334,198	20,875,155	210,578	36,792,828
May-23	4,420,865	11,889,120	21,618,603	214,038	38,142,626
Jun-23	7,569,106	13,243,122	22,441,247	231,225	43,484,700
Jul-23	11,429,085	16,578,612	25,193,179	226,284	53,427,160
Aug-23	11,480,823	16,546,252	28,429,526	233,101	56,689,702

# RETAIL SALES (kWh) by CUSTOMER CLASS Competitive Generation Sales

Municipal Aggregation Sales					
Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Aug-18	-	-	-	-	-
Sep-18	-	-	-	-	-
Oct-18	-	-	-	-	-
Nov-18	-	-	-	-	-
Dec-18	-	-	-	-	-
Jan-19	-	-	-	-	-
Feb-19	-	-	-	-	-
Mar-19	-	_	_	-	-
Apr-19	-	_	_	-	-
May-19	_			_	-
Jun-19		_	_		-
Jul-19		_	_		-
Aug-19	-	-	-	-	-
Sep-19	-	-	-	-	-
Oct-19	-	-	-	-	-
	-	-	-	-	-
Nov-19	-	-	-	-	-
Dec-19	-	-	-	-	-
Jan-20	-	-	-	-	-
Feb-20	-	-	-	-	-
Mar-20	-	-	-	-	-
Apr-20	-	-	-	-	-
May-20	-	-	-	-	-
Jun-20	-	-	-	-	-
Jul-20	-	-	-	-	-
Aug-20	-	-	-	-	-
Sep-20	-	-	-	-	-
Oct-20	-	-	-	-	-
Nov-20	-	-	-	-	-
Dec-20	-	-	-	-	-
Jan-21	-	-	-	-	-
Feb-21	-	-	-	-	-
Mar-21	-	-	-	-	-
Apr-21	-	-	-	-	-
May-21	-	-	-	-	-
Jun-21	-	-	-	-	-
Jul-21	-	_	_	-	-
Aug-21	-	_	_	-	-
Sep-21	_	_	_	-	_
Oct-21		_	_		
Nov-21		_	_		
Dec-21	-	-	-	-	-
Jan-22	-	-	-	-	-
Feb-22	-	-	-	-	-
Hed-22 Mar-22	-	-	-	-	-
	-	-	-	-	-
Apr-22 May 22	-	-	-	-	-
May-22	-	-	-	-	-
Jun-22	-	-	-	-	-
Jul-22	-	-	-	-	-
Aug-22	-	-	-	-	-
Sep-22	-	-	-	-	-
Oct-22	-	-	-	-	-
Nov-22	-	-	-	-	-
Dec-22	-	-	-	-	-
Jan-23	-	-	-	-	-
Feb-23	-	-	-	-	-
Mar-23	-	-	-	-	-
Apr-23	102	-	-	-	102
May-23	1,113,518	319,335	3,936	7,445	1,444,233
Jun-23	3,656,299	966,407	6,619	18,209	4,647,535
Jul-23	5,510,666	1,238,888	5,519	21,432	6,776,505
Aug-23	4,259,118	1,147,252	7,268	23,857	5,437,495
	.,200,110	.,,	7,200	20,001	3, 101, 100

# RETAIL SALES (kWh) by CUSTOMER CLASS Municipal Aggregation Sales

#### Total Sales REGULAR LARGE OUTDOOR Month DOMESTIC TOTAL GENERAL GENERAL LIGHTING 54,105,097 31,979,431 33,854,190 669,416 Aug-18 120,608,134 Sep-18 46,304,368 28,735,841 31,095,868 669,012 106,805,089 Oct-18 35,087,850 24,661,277 29,080,302 668,554 89,497,983 Nov-18 85,891,882 36,330,312 23,146,490 25,745,662 669,418 Dec-18 45,293,401 27,173,913 26,844,281 665,045 99,976,640 Jan-19 48,573,139 26,801,275 26,979,309 665,598 103,019,321 98,420,235 Feb-19 44,559,537 26,574,498 26,620,046 666,154 25,784,582 Mar-19 41,248,074 25,767,182 662,614 93,462,452 Apr-19 36,267,907 24,526,931 26,251,027 661,680 87,707,545 23,515,918 May-19 26,311,636 661,932 83,585,407 33,095,921 Jun-19 32,054,300 23,341,529 26,101,159 667,459 82,164,447 Jul-19 48,344,036 30,097,552 31,937,058 644,520 111,023,166 Aug-19 51,989,358 31,128,364 31,487,105 661,782 115,266,609 Sep-19 36,471,648 24,537,233 26,550,095 667,112 88,226,088 Oct-19 35,394,202 24,889,698 28,768,997 664,935 89,717,832 25,181,926 Nov-19 33,399,959 21,866,033 658,696 81,106,614 Dec-19 42,531,020 24,586,895 25,883,060 659,730 93,660,705 Jan-20 47,877,662 26,856,526 27,162,976 659,141 102,556,305 43,447,320 27,360,368 Feb-20 26,398,419 649,722 97,855,829 646.784 Mar-20 41,788,394 25,809,231 27,375,056 95,619,465 Apr-20 36,919,734 19,238,284 23,199,379 642,890 80,000,287 May-20 18,473,609 34,845,155 23,230,381 643,978 77,193,123 Jun-20 43,074,211 23,359,730 27,500,834 645,353 94,580,128 53,371,480 27.260.601 Jul-20 29,386,736 646,121 110,664,938 28.262.781 644,251 Aug-20 57,715,834 29,935,971 116,558,837 Sep-20 26,172,290 29,722,799 635,198 101,510,008 44,979,721 Oct-20 32,009,393 20,170,721 24,642,676 609,062 77,431,852 24,432,498 Nov-20 34,896,989 20,497,099 605,624 80,432,210 Dec-20 45,042,699 23,449,935 25,817,785 597,605 94,908,024 25,351,429 582.966 Jan-21 48,326,828 23,804,287 98,065,510 Feb-21 24,511,887 580,023 47,028,445 25,812,410 97,932,765 Mar-21 47,108,539 26,061,521 27,626,162 503,479 101,299,701 Apr-21 34,853,776 21,236,355 24,806,383 579,895 81,476,409 21,828,192 581,813 May-21 33,843,374 25,750,269 82,003,648 Jun-21 43,474,063 26,241,575 28,940,957 568,583 99,225,178 Jul-21 50,786,739 28,410,304 30,282,704 571,860 110,051,607 50,902,470 29,195,229 30,963,896 Aug-21 578,180 111,639,775 Sep-21 49,549,260 28,366,436 31,233,773 577,926 109,727,395 Oct-21 34,598,039 23,022,256 26,570,782 574,956 84,766,033 Nov-21 34,569,087 24,643,173 571,148 81,456,700 21,673,292 Dec-21 44,465,313 24,823,960 26,229,003 567,396 96,085,672 Jan-22 51,683,735 27,415,416 26,241,532 562,095 105,902,778 Feb-22 47,617,490 26,810,354 25,990,364 558,907 100,977,115 Mar-22 25,954,431 26,228,654 549,971 96,009,650 43,276,594 Apr-22 35,040,709 22,695,126 24,425,385 516,075 82,677,295 May-22 25,732,657 33,992,121 23,116,055 510,822 83,351,655 Jun-22 38,566,936 24,905,070 28,252,964 509,134 92,234,104 Jul-22 48,304,769 28,580,240 29,356,375 509,264 106,750,648 Aug-22 59,831,947 32,264,080 32,469,634 508,645 125,074,306 Sep-22 44,570,293 27,744,867 507,232 102,513,068 29,690,676 Oct-22 32,232,739 21,931,980 25,213,654 506,510 79,884,883 Nov-22 21,656,113 503,465 32,363,667 25,193,812 79,717,057 24,876,662 Dec-22 40,627,657 23,545,721 504,010 89,554,050 Jan-23 47,305,507 26,642,405 25,920,706 504,254 100,372,872 Feb-23 44,402,356 26,447,721 26,286,240 503,151 97,639,468 25,648.820 537,706 Mar-23 25,652,080 93,392,791 41,554,185 Apr-23 34,145,447 22,569,830 24,404,748 440,458 81,560,483 25,479,468 80,927,649 32,299,047 493,123 May-23 22,656,011 Jun-23 33,572,599 23,155,377 26,519,028 491,776 83,738,780 Jul-23 49,276,395 29,116,330 30,217,311 477,406 109,087,442 28,265,919 489,786 107,832,074 Aug-23 49,201,669 29,874,700

# RETAIL SALES (kWh) by CUSTOMER CLASS

Competitive Generation Sales as a Percentage of Total Sales						
Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL	
Aug-18	11.4%	45.0%	88.0%	44.5%	42.0%	
Sep-18	11.2%	44.7%	88.7%	44.7%	43.0%	
Oct-18	11.4%	45.5%	88.5%	44.7%	46.1%	
Nov-18	11.4%	44.0%	88.6%	45.0%	43.6%	
Dec-18	11.3%	41.4%	88.5%	44.2%	40.4%	
Jan-19	11.2%	41.9%	87.9%	44.4%	39.5%	
Feb-19	11.0%	41.2%	87.9%	44.2%	40.2%	
Mar-19	11.1%	41.6%	87.7%	43.7%	40.9%	
Apr-19	10.9%	43.6%	89.5%	44.4%	43.8%	
May-19	10.8%	44.4%	88.7%	43.9%	45.0%	
•	10.6%	46.9%	89.3%	43.9%	46.2%	
Jun-19 Jul-19	10.2%	46.2%	82.2%	44.4%	40.2%	
Aug-19	9.9%	45.3%	82.1%	44.3%	39.4%	
Sep-19	9.8%	45.9%	83.1%	44.7%	42.2%	
Oct-19	10.1%	46.9%	83.9%	44.4%	44.2%	
Nov-19	10.3%	46.7%	83.8%	44.5%	43.2%	
Dec-19	10.0%	44.6%	82.6%	46.2%	39.4%	
Jan-20	9.8%	43.0%	83.7%	44.8%	38.3%	
Feb-20	9.7%	43.1%	83.9%	44.9%	39.7%	
Mar-20	9.7%	43.9%	84.3%	44.8%	40.5%	
Apr-20	9.6%	44.9%	83.6%	44.6%	39.8%	
May-20	9.5%	46.3%	83.0%	45.1%	40.7%	
Jun-20	9.0%	47.1%	82.9%	44.6%	40.1%	
Jul-20	8.8%	46.0%	81.9%	44.7%	37.6%	
Aug-20	8.7%	44.5%	82.9%	44.4%	36.6%	
Sep-20	8.5%	45.3%	83.3%	43.7%	40.1%	
Oct-20	8.8%	46.2%	83.9%	42.4%	42.7%	
Nov-20	8.9%	45.7%	83.9%	43.1%	41.4%	
Dec-20	9.0%	45.1%	83.6%	43.8%	38.5%	
Jan-21	8.9%	44.7%	84.6%	45.5%	37.3%	
Feb-21	8.9%	44.8%	83.5%	45.6%	37.7%	
Mar-21	8.8%	44.9%	84.3%	52.9%	38.9%	
Apr-21	8.7%	47.2%	84.5%	45.1%	42.1%	
May-21	8.7%	47.8%	84.3%	44.9%	43.1%	
Jun-21	8.3%	46.3%	83.2%	44.8%	40.4%	
Jul-21	8.2%	45.6%	82.1%	45.0%	38.4%	
Aug-21	8.1%	44.8%	82.2%	45.2%	38.4%	
Sep-21	7.9%	44.9%	82.6%	45.2%	38.9%	
Oct-21	8.1%	46.1%	81.6%	44.9%	41.7%	
Nov-21	8.3%	45.3%	82.4%	44.8%	40.8%	
Dec-21	8.3%	42.9%	82.1%	44.6%	37.6%	
Jan-22	8.4%	42.9%	83.1%	44.8%	35.7%	
Feb-22	8.4%	40.8%	83.8%	45.3%	36.7%	
Mar-22	8.9%	42.0%	83.8%	43.8%	38.5%	
Apr-22	9.3%	42.0%	83.9%	40.6%	41.2%	
•						
May-22	9.5%	45.5%	84.3%	39.7% 20.3%	42.7%	
Jun-22	9.1%	46.6%	83.1%	39.3%	42.1%	
Jul-22	8.8%	45.9%	83.4%	39.6%	39.4%	
Aug-22	8.6%	44.8%	83.0%	39.4%	37.4%	
Sep-22	8.5%	46.4%	83.1%	39.3%	40.5%	
Oct-22	8.9%	47.3%	83.7%	39.2%	43.2%	
Nov-22	9.1%	47.3%	84.1%	39.7%	43.4%	
Dec-22	9.5%	45.3%	85.0%	40.1%	40.1%	
Jan-23	10.0%	45.5%	85.3%	42.2%	39.0%	
Feb-23	10.4%	46.3%	85.9%	42.6%	40.6%	
Mar-23	11.3%	47.4%	85.2%	38.8%	41.7%	
Apr-23	12.8%	50.2%	85.5%	47.8%	45.1%	
May-23	13.7%	52.5%	84.8%	43.4%	47.1%	
Jun-23	22.5%	57.2%	84.6%	47.0%	51.9%	
Jul-23	23.2%	56.9%	83.4%	47.4%	49.0%	
Aug-23	23.3%	58.5%	95.2%	47.6%	52.6%	
<b>J</b>						

RETAIL SALES (kWh) by CUSTOMER CLASS Competitive Generation Sales as a Percentage of Total Sales

# Unitil Energy Systems, Inc. Customer Migration Report

Month	DOMESTIC	REGULAR	LARGE	OUTDOOR	ΤΟΤΑΙ
Month	DOMESTIC	GENERAL	GENERAL	LIGHTING	TOTAL
Aug-18	7,088	2,755	122	285	10,250
Sep-18	7,010	2,728	123	280	10,141
Oct-18	6,851	2,706	123	280	9,960
Nov-18	6,779	2,679	125	276	9,859
Dec-18	6,694	2,687	121	271	9,773
Jan-19	6,644	2,691	120	273	9,728
					9,728
Feb-19	6,685	2,698	120	272	
Mar-19	6,585	2,709	120	281	9,695
Apr-19	6,559	2,726	121	278	9,684
May-19	6,575	2,729	123	277	9,704
Jun-19	6,500	2,743	118	282	9,643
Jul-19	6,417	2,765	120	284	9,586
Aug-19	6,328	2,771	120	282	9,501
Sep-19	6,263	2,768	120	282	9,433
Oct-19	6,227	2,762	120	282	9,391
Nov-19	6,026	2,778	119	279	9,202
Dec-19	5,937	2,668	121	261	8,987
Jan-20	5,882	2,706	122	268	8,978
Feb-20	5,857	2,711	123	271	8,962
Mar-20	5,846	2,705	123	271	8,945
Apr-20	5,806	2,703	124	271	8,904
May-20	5,763	2,705	125	271	8,864
Jun-20	5,730	2,703	126	272	8,829
Jul-20				272	
	5,694	2,694	126		8,784
Aug-20	5,640	2,686	126	270	8,722
Sep-20	5,592	2,687	126	273	8,678
Oct-20	5,530	2,692	126	277	8,625
Nov-20	5,611	2,723	125	280	8,739
Dec-20	5,584	2,769	125	296	8,774
Jan-21	5,581	2,773	125	298	8,777
Feb-21	5,576	2,781	125	297	8,779
Mar-21	5,550	2,779	125	297	8,751
Apr-21	5,537	2,784	125	296	8,742
May-21	5,520	2,781	126	296	8,723
Jun-21	5,511	2,811	130	339	8,791
Jul-21	5,481	2,798	129	334	8,742
Aug-21	5,442	2,796	129	333	8,700
Sep-21	5,395	2,789	127	333	8,644
Oct-21	5,335	2,787	127	333	8,582
Nov-21	5,201	2,735	127	323	8,386
Dec-21	5,222	2,719	129	322	8,392
Jan-22	5,232	2,704	130	323	8,389
Feb-22 Mor 22	5,369	2,722	131	324	8,546
Mar-22	5,626	2,778	130	330	8,864
Apr-22	5,825	2,814	131	338	9,108
May-22	5,821	2,824	131	339	9,115
Jun-22	5,807	2,781	130	341	9,059
Jul-22	5,774	2,780	132	340	9,026
Aug-22	5,696	2,791	132	342	8,961
Sep-22	5,621	2,789	131	342	8,883
Oct-22	5,598	2,809	132	346	8,885
Nov-22	5,778	2,816	132	355	9,081
Dec-22	6,063	2,953	134	380	9,530
Jan-23	6,219	3,017	134	387	9,757
Feb-23	6,538	3,073	134	394	10,139
Mar-23	7,307	3,149	134	403	10,993
Apr-23	7,780	3,222	135	403	11,549
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May-23	14,065	4,015	134	521	18,735
Jun-23	14,765	4,015	134	532	19,446
Jul-23	14,882	4,103	145	542	19,672
Aug-23	14,901	4,133	145	542	19,721

#### CUSTOMER COUNT by CLASS Customers Served by Competitive Generation

		Customers Served	by Municipal Aggreg	ation	
Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Aug-18	-	-	-	-	-
Sep-18	-	-	-	-	-
Oct-18	-	-	-	-	-
Nov-18	-	-	-	-	-
Dec-18	-	_	-	-	-
Jan-19	_	_	_	_	_
Feb-19	-	-	-	-	-
	-	-	-	-	-
Mar-19	-	-	-	-	-
Apr-19	-	-	-	-	-
May-19	-	-	-	-	-
Jun-19	-	-	-	-	-
Jul-19	-	-	-	-	-
Aug-19	-	-	-	-	-
Sep-19	-	-	-	-	-
Oct-19	-	-	-	-	-
Nov-19	-	-	-	-	-
Dec-19	-	-	-	-	-
Jan-20	-	-	-	-	-
Feb-20	-	-	-	-	-
Mar-20	-	-	_	_	_
Apr-20					
	-	-	-	-	-
May-20	-	-	-	-	-
Jun-20	-	-	-	-	-
Jul-20	-	-	-	-	-
Aug-20	-	-	-	-	-
Sep-20	-	-	-	-	-
Oct-20	-	-	-	-	-
Nov-20	-	-	-	-	-
Dec-20	-	-	-	-	-
Jan-21	-	-	-	-	-
Feb-21	-	-	-	-	-
Mar-21	-	_	-	-	-
Apr-21	_	_	_	_	_
May-21		_			
Jun-21	-	-	-	-	-
	-	-	-	-	-
Jul-21	-	-	-	-	-
Aug-21	-	-	-	-	-
Sep-21	-	-	-	-	-
Oct-21	-	-	-	-	-
Nov-21	-	-	-	-	-
Dec-21	-	-	-	-	-
Jan-22	-	-	-	-	-
Feb-22	-	-	-	-	-
Mar-22	-	-	-	-	-
Apr-22	-	-	-	-	-
May-22	-	-	-	-	-
Jun-22	-	-	_	-	_
Jul-22	_	_	_	_	_
	-	-	-	-	-
Aug-22	-	-	-	-	-
Sep-22	-	-	-	-	-
Oct-22	-	-	-	-	-
Nov-22	-	-	-	-	-
Dec-22	-	-	-	-	-
Jan-23	-	-	-	-	-
Feb-23	-	-	-	-	-
Mar-23	-	-	-	-	-
Apr-23	1				1
May-23	5,834	735	1	250	6,820
Jun-23	6,351	776	1	280	7,408
Jul-23	6,361	764	1	280	7,408
Aug-23	6,361	764 764	1	279	7,407 7,405
				// u	7 405

#### Customer Count by CUSTOMER CLASS Customers Served by Municipal Aggregation

Total Customers								
Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL			
Aug-18	65,532	10,650	155	1,589	77,926			
Sep-18	65,532	10,658	157	1,585	77,932			
Oct-18	65,686	10,679	157	1,587	78,109			
Nov-18	66,493	10,669	157	1,587	78,906			
Dec-18	66,493	10,669	157	1,587	78,906			
Jan-19	66,828	10,724	157	1,587	79,296			
Feb-19	66,871	10,722	157	1,586	79,336			
Mar-19	66,765	10,725	157	1,582	79,229			
Apr-19	65,947	10,591	156	1,579	78,273			
May-19	65,806	10,578	157	1,576	78,117			
Jun-19	65,852	10,573	158	1,573	78,156			
Jul-19	65,873	10,570	158	1,570	78,171			
Aug-19	65,878	10,570	158	1,570	78,176			
Sep-19	65,904	10,573	160	1,571	78,208			
Oct-19	66,071	10,606	160	1,567	78,404			
Nov-19	67,085	10,715	159	1,564	79,523			
Dec-19	67,183	10,730	160	1,565	79,638			
Jan-20	67,359	10,745	161	1,565	79,830			
Feb-20	67,420	10,751	161	1,565	79,897			
Mar-20	67,084	10,750	161	1,565	79,560			
Apr-20	66,412	10,624	161	1,559	78,756			
May-20	66,361	10,676	161	1,557	78,755			
Jun-20	66,395	10,659	162	1,555	78,771			
Jul-20	66,435	10,693	162	1,553	78,843			
Aug-20	66,474	10,699	163	1,557	78,893			
Sep-20	66,526	10,697	163	1,555	78,941			
Oct-20	66,634	10,712	163	1,552	79,061			
Nov-20	67,703	10,830	164	1,551	80,248			
Dec-20	67,810	10,839	164	1,550	80,363			
Jan-21	67,853	10,844	164	1,549	80,410			
Feb-21	67,919	10,874	164	1,548	80,505			
Mar-21	67,770	10,862	164	1,546	80,342			
Apr-21	67,025	10,740	164	1,546	79,475			
May-21	66,955	10,722	163	1,543	79,383			
Jun-21	66,977	10,783	163	1,542	79,465			
Jul-21	66,995	10,791	163	1,540	79,489			
Aug-21	67,019	10,792	163	1,539	79,513			
Sep-21	67,085	10,786	163	1,538	79,572			
Oct-21	67,242	10,813	163	1,536	79,754			
Nov-21	68,223	10,946	164	1,537	80,870			
Dec-21	68,271	11,252	168	1,646	81,337			
Jan-22 Feb-22	68,312 68,334	11,258 11,265	168 168	1,645 1,639	81,383 81,406			
Mar-22	68,334 68,165	11,265	168	1,639	81,239			
Apr-22	67,356	11,162	168	1,638	80,324			
May-22	67,375	11,156	168	1,637	80,336			
Jun-22	67,338	11,154	167	1,635	80,294			
Jul-22	67,350	11,159	168	1,633	80,310			
Aug-22	67,410	11,167	169	1,632	80,378			
Sep-22	67,461	11,172	170	1,630	80,433			
Oct-22	67,630	11,200	170	1,626	80,626			
Nov-22	68,598	11,296	172	1,626	81,692			
Dec-22	68,629	11,251	171	1,627	81,678			
Jan-23	68,658	11,254	171	1,626	81,709			
Feb-23	68,659	11,263	171	1,623	81,716			
Mar-23	68,639	11,258	168	1,623	81,688			
Apr-23	67,867	11,202	169	1,627	80,865			
May-23	67,484	11,140	167	1,623	80,414			
Jun-23	67,462	11,142	167	1,622	80,393			
Jul-23	67,442	11,144	167	1,621	80,374			
Aug-23	67,465	11,144	167	1,618	80,394			
<b>J</b> -	,	,	-	,	,			

# CUSTOMER COUNT by CLASS

Percentage of Customers Served by Competitive Generation								
Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL			
Aug-18	10.8%	25.9%	78.7%	17.9%	13.2%			
Sep-18	10.7%	25.6%	78.3%	17.7%	13.0%			
Oct-18	10.4%	25.3%	78.3%	17.6%	12.8%			
Nov-18	10.2%	25.1%	79.6%	17.4%	12.5%			
Dec-18	10.1%	25.2%	77.1%	17.1%	12.4%			
Jan-19	9.9%	25.1%	76.4%	17.2%	12.3%			
Feb-19	10.0%	25.2%	76.4%	17.2%	12.3%			
Mar-19	9.9%	25.3%	76.4%	17.8%	12.2%			
Apr-19	9.9%	25.7%	77.6%	17.6%	12.4%			
May-19	10.0%	25.8%	78.3%	17.6%	12.4%			
Jun-19	9.9%	25.9%	74.7%	17.9%	12.3%			
Jul-19	9.7%	26.2%	75.9%	18.1%	12.3%			
Aug-19	9.6%	26.2%	75.9%	18.0%	12.2%			
Sep-19	9.5%	26.2%	75.0%	18.0%	12.1%			
Oct-19	9.4%	26.0%	75.0%	18.0%	12.0%			
Nov-19	9.0%	25.9%	74.8%	17.8%	11.6%			
Dec-19	8.8%	24.9%	75.6%	16.7%	11.3%			
Jan-20	8.7%	25.2%	75.8%	17.1%	11.2%			
Feb-20	8.7%	25.2%	76.4%	17.3%	11.2%			
Mar-20	8.7%	25.2%	76.4%	17.3%	11.2%			
Apr-20	8.7%	25.4%	77.0%	17.4%	11.3%			
May-20	8.7%	25.3%	77.6%	17.4%	11.3%			
Jun-20	8.6%	25.3%	77.8%	17.5%	11.2%			
Jul-20	8.6%	25.2%	77.8%	17.4%	11.1%			
Aug-20	8.5%	25.1%	77.3%	17.3%	11.1%			
Sep-20	8.4%	25.1%	77.3%	17.6%	11.0%			
Oct-20	8.3%	25.1%	77.3%	17.8%	10.9%			
Nov-20	8.3%	25.1%	76.2%	18.1%	10.9%			
Dec-20	8.2%	25.5%	76.2%	19.1%	10.9%			
Jan-21	8.2%	25.6%	76.2%	19.2%	10.9%			
Feb-21	8.2%	25.6%	76.2%	19.2%	10.9%			
Mar-21	8.2%	25.6%	76.2%	19.2%	10.9%			
Apr-21	8.3%	25.9%	76.2%	19.2 %	11.0%			
May-21	8.2%	25.9%	77.3%	19.1%	11.0%			
Jun-21	8.2%	26.1%	79.8%	22.0%	11.1%			
Jul-21	8.2%	25.9%	79.1%	21.7%	11.0%			
Aug-21	8.1%	25.9%	79.1%	21.6%	10.9%			
Sep-21	8.0%	25.9%	77.9%	21.7%	10.9%			
Oct-21	7.9%	25.8%	77.9%	21.7%	10.8%			
Nov-21	7.6%	25.0%	77.4%	21.0%	10.8%			
Dec-21	7.6%	24.2%	76.8%	19.6%	10.3%			
Jan-22	7.7%	24.2%	77.4%	19.6%	10.3%			
Feb-22	7.9%	24.0%	78.0%	19.8%	10.5%			
Mar-22	8.3%	24.2%	77.4%	20.1%	10.9%			
Apr-22	8.6%	25.2%	78.0%	20.6%	11.3%			
May-22	8.6%	25.2%	78.0%	20.7%	11.3%			
Jun-22	8.6%	24.9%	77.8%	20.9%	11.3%			
Jul-22	8.6%	24.9%	78.6%	20.9%	11.2%			
Aug-22	8.6%	24.9% 25.0%	78.6%	20.8%	11.2%			
Sep-22	8.3%	25.0%	78.1%	21.0%	11.0%			
Oct-22	8.3%	25.0%	77.6%	21.0%	11.0%			
Nov-22	8.4%	24.9%	76.7%	21.8%	11.1%			
Dec-22	8.8%	24.9%	78.4%	23.4%	11.7%			
Jan-23	0.0% 9.1%	26.8%	78.4%	23.4%	11.7%			
Feb-23	9.1%	27.3%	78.4%	23.8%	12.4%			
Hed-23 Mar-23	9.5% 10.6%	28.0%	78.4% 79.8%	24.3% 24.8%	12.4%			
	11.5%	28.0%	79.8% 79.9%	24.8% 25.3%	13.5%			
Apr-23 May-23	20.8%	36.0%	80.2%	32.1%	23.3%			
May-23 Jun-23	20.8%	36.0%	80.2% 80.2%	32.1%	23.3% 24.2%			
Jun-23 Jul-23				32.8% 33.4%				
	22.1%	36.8% 37.1%	86.8%		24.5% 24.5%			
Aug-23	22.1%	51.170	86.8%	33.5%	24.5%			

CUSTOMER COUNT by CLASS Percentage of Customers Served by Competitive Generation

Date Request Received: 9/20/23 Request No. DOE IQ 2-013 Date of Response: 10/11/23 Contact: Jeff M. Pentz

# Request:

Please provide the following information, by customer group and rate schedule, for each existing aggregation within your utility's service territory:

a) Number of customers

b) Load (kW, kWh, or both)

c) Term of aggregation (including start date and end date)

# Response:

Please reference the excel attachment (DOE IQ 2-013 Attachment 1) for active aggregation load and customer count data.

Customer Counts - 9/28/2023						
Rate Class	<b>Customer Group</b>	EXETER	CANTERBURY			
DOMESTIC	SMALL CUSTOMERS	5,923	438			
GEN1	LARGE CUSTOMERS	1	-			
GEN2	MEDIUM CUSTOMERS	725	39			
OUTDOOR LIGHTING	MEDIUM CUSTOMERS	249	30			

Month-Year	Rate Group	Exeter	Canterbury
	DOMESTIC	96	-
Apr-23	GEN1		
Api-25	GEN2		
	OUTDOOR LIGHTING		
	DOMESTIC	1,045,763	108
May-23	GEN1	3,763	
ividy-25	GEN2	300,100	49
	OUTDOOR LIGHTING	7,112	
	DOMESTIC	3,269,285	164,892
Jun-23	GEN1	6,329	
Juli-25	GEN2	852,598	55,747
	OUTDOOR LIGHTING	16,515	880
	DOMESTIC	4,835,883	340,006
Jul-23	GEN1	5,277	
Jui-25	GEN2	1,054,064	110,392
	OUTDOOR LIGHTING	18,249	2,225
	DOMESTIC	3,726,456	273,918
Aug-23	GEN1	6,949	
Aug-25	GEN2	964,552	113,774
	OUTDOOR LIGHTING	20,363	2,427

Date Request Received: 9/20/23 Request No. DOE IQ 2-014 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### **Request:**

What municipalities/towns within your utility's service territory have pending aggregation applications? For each pending aggregation application, please provide, by customer group and rate schedule, the number of prospective customers and amount of load that could be served by the aggregation.

#### **Response:**

Please reference the excel attachment (DOE IQ 2-014 Attachment 1) for pending town status and associated load and customer count data.

Town	PUC Application Status
Allenstown	Approved
Pembroke	Approved
Hampton	Conditionally Approved
Webster	Approved
Stratham	Pending Commission Approval

Customer Counts - 9/28/2023								
Rate Class	Customer Group	ALLENSTOWN	HAMPTON	PEMBROKE	STRATHAM	WEBSTER	<b>Grand Total</b>	
DOMESTIC	SMALL CUSTOMERS	10	10,473	21	3,262	397	14,163	
GEN1	LARGE CUSTOMERS	-	14	2	3	-	19	
GEN2	MEDIUM CUSTOMERS	-	1,434	16	582	32	2,064	
OUTDOOR LIGHTING	MEDIUM CUSTOMERS	-	1,140	12	83	3	1,238	

Month-Year	Rate Group	ALLENSTOWN	HAMPTON	PEMBROKE	STRATHAM	WEBSTER
	DOMESTIC	6,326	6,040,716	7,222	2,872,983	256,491
Cont 2022	GEN1		1,521,664	103,400	522,592	
Sept-2022	GEN2		3,588,849	26,044	1,223,554	26,761
	OUTDOOR LIGHTING		101,434	819	10,171	607
	DOMESTIC	5,173	3,982,725	5,818	1,949,000	196,378
Oct-2022	GEN1		1,320,164	128,400	412,512	
001-2022	GEN2		2,522,256	23,259	906,030	24,423
	OUTDOOR LIGHTING		101,009	818	10,149	644
	DOMESTIC	7,172	3,649,141	6,829	1,963,026	184,983
Nov-2022	GEN1		1,313,082	133,200	411,648	
100-2022	GEN2		2,157,882	26,407	887,166	23,536
	OUTDOOR LIGHTING		99,696	812	10,130	638
	DOMESTIC	8,098	4,820,010	7,223	2,420,279	232,801
Dec-2022	GEN1		1,472,002	69,300	389,504	
Dec-2022	GEN2		2,506,479	34,779	912,805	29,071
	OUTDOOR LIGHTING		98,511	820	10,190	644
	DOMESTIC	7,822	6,077,606	8,272	2,998,558	263,485
Jan-2023	GEN1		1,817,553	53,400	442,672	
Jan-2025	GEN2		2,970,737	39,847	1,076,743	30,714
	OUTDOOR LIGHTING		99,062	819	10,190	642
	DOMESTIC	8,773	5,856,912	8,237	2,550,360	269,105
Feb-2023	GEN1		1,560,167	7,800	400,880	
160-2023	GEN2		2,983,385	35,630	995,928	34,638
	OUTDOOR LIGHTING		97,324	819	10,177	640
	DOMESTIC	7,673	5,373,681	8,448	2,564,332	240,212
Mar-2023	GEN1		1,525,732	9,300	418,848	
10101 2023	GEN2		2,906,921	32,979	1,025,128	31,608
	OUTDOOR LIGHTING		97,666	822	9,966	643
	DOMESTIC	6,402	4,451,621	6,281	1,979,330	207,984
Apr-2023	GEN1		1,333,866	123,200	396,160	
	GEN2		2,562,336	25,252	871,039	28,195
	OUTDOOR LIGHTING		97,381	812	9,376	647
	DOMESTIC	6,349	3,995,067	5,596		206,402
May-2023	GEN1		1,287,768	146,400	420,576	
,	GEN2		2,555,649	24,861	880,707	27,188
	OUTDOOR LIGHTING		99,791	819	9,390	646
	DOMESTIC	5,859	3,860,374	8,617		189,752
Jun-2023	GEN1		2,145,068	149,000	445,808	
	GEN2		2,670,045	25,073		24,169
	OUTDOOR LIGHTING		100,953	819	9,291	643
	DOMESTIC	8,585	5,427,751	9,029	3,289,030	233,749
Jul-2023	GEN1		1,417,272	110,400	525,152	
	GEN2		3,508,904	29,232	1,215,351	24,685
	OUTDOOR LIGHTING		98,168	795	9,064	619
	DOMESTIC	8,883	6,819,671	7,112		294,898
Aug-2023	GEN1		1,491,933	112,100	471,840	
Aug 2023	GEN2		3,913,527	28,654		26,479
	OUTDOOR LIGHTING		101,041	818	9,309	618

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Date Request Received: 9/20/23 Request No. DOE IQ 2-015 Date of Response: 10/11/23 Contact: Jeff M. Pentz

# **Request:**

Does your utility account for aggregation-related load risk in the threshold/proxy price? If so, please describe how this element is estimated.

#### **Response:**

Aggregation-related load risk could be one of the several non-energy costs embedded in the final bid price that could be a factor in the higher ratio of bid prices to NYMEX forward prices. However, the individual components of a fixed full requirements bid are not discoverable by the Company since bidders only present one price for full requirements service.

Date Request Received: 9/20/23 Request No. DOE IQ 2-016 Date of Response: 10/11/23 Contact: Dan Nawazelski

#### **Request:**

How does your utility handle net metering as it relates to default service? Is the treatment of net metering different for customers that receive third-party, community power aggregation, and default retail supply?

#### **Response:**

Unitil allows both standard (customers receiving a utility net metering capacity allocation prior to September 1, 2017) and alternative (customers receiving a utility net metering capacity allocation after September 1, 2017) net metering customers the option to either remain on default service or to switch to a competitive supplier, at the customer's discretion and with proper notice. Standard net metering customers are allowed to bank their kilowatt-hours, regardless of supply source; however, those on an external supply may not do an annual cash out of 600 kilowatt-hours banked unlike those customers on a default supply. Alternative net metering customers, and all small group net metering customers, only differ in the cost of their supply charge, depending on if they are on default or third-party supply. Large group net metering customers (greater than 100 kW AC facilities) will receive a net monetary credit if they are on default retail supply; on the other hand, they will be credited on all their received kilowatt-hours if the customer has elected for an external supply.

A summary table has been included as DOE IQ 2-016 Attachment 1 that provides information on these differences between default and external supply for standard and alternative net metering customers.

STANDARD NET METERING	DEFAULT SUPPLY	EXTERNAL SUPPLY
kWh bank	Yes	Yes
*600 kWh+ annual cash out	Yes	No

\*excess of 600 kWh banked at end of March billing period, customers (default only) can receive a payment equal to the economic value of the surplus which can be in the form of a check or credit applied to the account

ALTERNATIVE NET METERING	DEFAULT SUPPLY	EXTERNAL SUPPLY
Receives Monetary credit (NET)	Yes	Yes
Distribution	25%	25%
Transmission	100%	100%
Supply	100%	0%
*Annual Cash out \$100+	Yes	Yes

\*a credit balance that exceeds \$100 at end of March billing period, customer can receive a payment in the form of a check

SMALL GROUP HOST / STANDARD	DEFAULT SUPPLY	EXTERNAL SUPPLY
Receives Monetary credit (NET)	Yes	Yes
Delivery	100%	100%
Supply	100%	0%

SMALL GROUP HOST / ALT	DEFAULT SUPPLY	EXTERNAL SUPPLY
Receives Monetary credit (NET)	Yes	Yes
Distribution	25%	25%
Transmission	100%	100%
Supply	100%	0%

LARGE GROUP HOST / BOTH	DEFAULT SUPPLY	EXTERNAL SUPPLY
Receives Monetary credit (NET)	Yes	No
Supply	100%	0%

LARGE GENERATORS / BOTH	DEFAULT SUPPLY	EXTERNAL SUPPLY
Receives monetary credit (RCV)	Yes	No
Supply	100%	0%

\*Large generators bill on their delivered and are credited on all their received, NET is not used

Date Request Received: 9/20/23 Request No. DOE IQ 2-017 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### **Request:**

Does your utility coordinate with affiliates in other ISO-NE states as it relates to default electric service (e.g., timeline coordination)? If so, in what ways does your utility coordinate?

#### **Response:**

Unitil Energy Systems and its affiliate in Massachusetts, Fitchburg Gas and Electric Light Company, issue RFPs for Default Service under the same timeline and schedule. This coordination is done primarily for administrative and process efficiencies. Additionally, both RFPs are issued simultaneously in an effort to gather as much supplier participation as possible.

Date Request Received: 9/20/23 Request No. DOE IQ 2-018 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### Request:

Does your utility share resources with affiliates in other ISO-NE states as it relates to default electric service (e.g., shared expert staff)? If so, in what ways does your utility share resources?

#### **Response:**

Yes, the Company shares expert staff who administer the RFPs, manage supplier communications, and prepare regulatory filings on behalf of both Unitil Energy Service Inc. and Fitchburg Gas and Electric Light Company.

Date Request Received: 9/20/23 Request No. DOE IQ 2-019 Date of Response: 10/11/23 Contact: Jeff M. Pentz

#### **Request:**

What factors does your utility use to calculate self-supply price? Please list each individual element with a brief description of how it is estimated. If applicable, please provide self-supply price calculations with all associated workpapers for all instances of self-supply within the last five years.

#### **Response:**

Unitil Energy Systems, Inc. has not experienced a failed solicitation and thus has not performed a calculation in relation to a self-supply price.

Date Request Received: 9/20/23 Request No. DOE IQ 2-020 Date of Response: 10/11/23 Contact: Jeff M. Pentz

### **Request:**

Under what conditions would the self-supply price be adjusted? Please identify any applicable thresholds.

### **Response:**

Please see response to question DOE IQ 2-019.

Date Request Received: 9/20/23 Request No. DOE IQ 2-021 Date of Response: 10/4/23 Contact: Nicholas DeMarchi

#### **Request:**

Please provide publicly available distribution load forecasts, including separate forecasts by customer group and rate class as available, prepared in the last five years. Please explain factors expected to affect your utility's distribution load (level and profile) over the term each recent forecast. If these factors have changed in the last five years, please identify which factors are expected to affect which forecasts.

#### **Response:**

The Company previously has provided kWh forecast data publicly in the context of its Annual Stranded Cost Recovery and External Delivery Charge Reconciliation and Rate Filings (DE 19-111; DE 20-098; DE 21-121; DE 22-038; and DE 23-057) with the Commission. The Company has attached the relevant pages from these filings as DOE IQ 2-021 Attachment 1.

For forecasts prepared prior to July 2023, the Company's forecasts utilized an autoregressive linear regression for meter growth and usage per customer by rate class respectively. Regressions can rely on various variables, most frequently a time trend variable. The Company's forecasts during the pandemic years sought to return to "normal" usage as residential usage increased and commercial and industrial usage decreased during the peak of the COVID-19 pandemic. This usage per customer assumed normal weather based on an average of 20 years of historical weather data. Additionally, Business Development personnel were consulted for comments on significant usage changes. These forecasts sought to limit subjectivity and would typically rely on historical trends.

Going forward, the Company's forecasts will still analyze meter growth and use per customer by rate class, but will also use an econometric multiple linear regression to account for multiple independent variables such as weather, population, unemployment rate, gross metropolitan product, and other economic/demographic variables.

### As filed in DE 19-111 June 14, 2019

#### Unitil Energy Systems, Inc. Stranded Cost Charge Revenues

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed kWh - all classes except G2 demand	Unbilled	Unbilled kWh	Proposed	Unbilled SCC Revenue	Total Billed kWh - G2	Unbilled	Unbilled kWh	Proposed	Unbilled SCC Revenue (h *	Total Billed kWh ⋅	Unbilled	Unbilled kWh	Proposed	Unbilled SCC Revenue (m *	Reversal of prior month unbilled (prior month, e + j +	Total Billed	Total Revenue (e + j + o + p +
		and G1	Factor	(a * b)	scc	(c * d)	demand	Factor	(f * g)	SCC	i)	G1	Factor	(k * l)	SCC	n)	o)	SCC Revenue	(p
Aug-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18 Feb-18	Actual Actual Actual Actual Actual Actual Actual	47,101,168 40,772,086 37,952,764 34,056,002 44,539,006 57,336,985 45,332,334	40.1% 64.8% 53.6% 61.6% 61.3% 44.4% 42.9%	18,901,769 26,413,430 20,358,893 20,962,194 27,302,679 25,431,069 19,460,605	(\$0.00057) (\$0.00057) (\$0.00057) (\$0.00057) (\$0.00057) (\$0.00057) (\$0.00057)	(\$10,774) (\$15,056) (\$11,605) (\$11,948) (\$15,563) (\$14,496) (\$11,093)	32,806,952 29,705,763 29,018,147 24,999,095 27,460,095 31,888,068 28,310,183	45.0% 58.8% 53.6% 55.9% 54.7% 46.7% 47.1%	14,747,442 17,480,331 15,566,122 13,976,918 15,015,731 14,900,861 13,324,673	(\$0.00011) (\$0.00011) (\$0.00011) (\$0.00011) (\$0.00011) (\$0.00011) (\$0.00011)	(\$1,622) (\$1,923) (\$1,712) (\$1,537) (\$1,652) (\$1,639) (\$1,466)	32,479,046 30,878,419 31,045,206 27,021,133 28,973,555 29,063,623 27,816,557	49.2% 51.4% 53.6% 53.5% 51.2% 48.1% 49.0%	15,991,170 15,879,329 16,653,491 14,468,830 14,825,649 13,968,492 13,640,259	(\$0.00014) (\$0.00014) (\$0.00014) (\$0.00014) (\$0.00014) (\$0.00014) (\$0.00014)	(\$2,239) (\$2,223) (\$2,331) (\$2,026) (\$2,076) (\$1,956) (\$1,910)	\$5,957 \$14,635 \$19,202 \$15,648 \$15,512 \$19,290 \$18,090	(\$40,795) (\$56,730) (\$55,179) (\$49,937) (\$55,324) (\$63,951) (\$56,064)	(\$49,474) (\$61,297) (\$51,626) (\$49,801) (\$59,102) (\$62,752) (\$52,442)
Mar-18	Actual	41,168,274	49.4%	20,317,620	(\$0.00057)	(\$11,581)	27,710,982	48.4%	13,407,978	(\$0.00011)	(\$1,475)	27,664,061	48.0%	13,269,232	(\$0.00014)	(\$1,858)	\$14,468	(\$53,782)	(\$54,227)
Apr-18 May-18	Actual Actual	38,113,294 34,349,094	45.3% 50.3%	17,266,581 17,262,636	(\$0.00057) (\$0.00057)	(\$9,842) (\$9,840)	26,103,985 26,514,184	49.9% 50.3%	13,020,220 13,325,088	(\$0.00011) (\$0.00011)	(\$1,432) (\$1,466)	26,745,474 28,919,282	51.8% 50.3%	13,858,352 14,533,805	(\$0.00014) (\$0.00014)	(\$1,940) (\$2,035)	\$14,914 \$13,214	(\$51,484) (\$51,285)	(\$49,785) (\$51,411)
Jun-18	Actual	38,403,793	49.1%	18,840,707	(\$0.00057)	(\$10,739.20)	29,598,848	45.5%	13,465,408	(\$0.00011)	(\$1,400)	31,345,592	41.7%	13,085,588	(\$0.00014)	(\$2,033)	\$13,214 \$13,340	(\$55,262)	(\$55,974)
Jul-18	Actual	47,513,038	58.3%	27,682,687	(\$0.00057)	(\$15,779)	31,385,269	55.3%	17,360,180	(\$0.00011)	(\$1,910)	31,298,456	51.0%	15,952,047	(\$0.00014)	(\$2,233)	\$14,052	(\$62,059)	(\$67,929)
Total Aug-	17 to Jul-18	506,637,838		260,200,869		(\$148,314)	345,501,571		175,590,952		(\$19,315)	353,250,404		176,126,245		(\$24,658)	\$178,322	(\$651,854)	(\$665,819)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed kWh - all classes except G2 demand and G1	Unbilled Factor	Unbilled kWh (a * b)	Proposed SCC	Unbilled SCC Revenue (c * d)	Total Billed kWh - G2 demand	Unbilled Factor	Unbilled kWh (f * g)	Proposed SCC	Unbilled SCC Revenue (h * i)	Total Billed kWh - G1	Unbilled Factor	Unbilled kWh (k * l)	Proposed SCC	Unbilled SCC Revenue (m * n)	Reversal of prior month unbilled (prior month, e + j + o)	Total Billed SCC Revenue	Total Revenue (e + j + o + p + q)
Aug-18	Actual	55,179,734	42.5%	23,437,437	(\$0.00101)	(\$23,672)	34,842,998	44.9%	15,644,610	(\$0.00021)	(\$3,285)	33,810,990	48.9%	16,533,152	(\$0.00025)	(\$4,133)	\$19,922	(\$97,383)	(\$108,552)
Sep-18	Actual	47,327,882	40.3%	19,075,860	(\$0.00101)	(\$19,267)	31,457,574	45.8%	14,393,092	(\$0.00021)	(\$3,023)	31,095,868	40.3 % 53.7%	16,689,264	(\$0.00025)	(\$4,172)	\$31,090	(\$112,855)	(\$108,226)
Oct-18	Actual	36,017,909	51.3%	18,490,289	(\$0.00101)	(\$18,675)	27,340,477	51.3%	14,035,610	(\$0.00021)	(\$2,947)	29,080,302	51.3%	14,928,773	(\$0.00025)	(\$3,732)	\$26,461	(\$96,109)	(\$95,002)
Nov-18	Actual	37,374,501	58.5%	21,862,926	(\$0.00101)	(\$22,082)	25,583,071	54.0%	13,810,022	(\$0.00021)	(\$2,900)	25,745,662	52.0%	13,400,046	(\$0.00025)	(\$3,350)	\$25,355	(\$92,723)	(\$95,700)
Dec-18	Actual	46,662,841	48.9%	22,841,095	(\$0.00101)	(\$23,070)	29,491,402	49.1%	14,492,439	(\$0.00021)	(\$3,043)	26,844,281	49.2%	13,215,844	(\$0.00025)	(\$3,304)	\$28,332	(\$103,074)	(\$104,160)
Jan-19	Actual	49,931,703	52.1%	26,000,645	(\$0.00101)	(\$26,261)	29,168,271	49.2%	14,359,218	(\$0.00021)	(\$3,015)	26,979,309	47.7%	12,865,368	(\$0.00025)	(\$3,216)	\$29,417	(\$106,252)	(\$109,327)
Feb-19	Actual	46,036,715	45.7%	21,051,168	(\$0.00101)	(\$21,262)	28,788,209	46.8%	13,470,664	(\$0.00021)	(\$2,829)	26,620,046	47.3%	12,593,260	(\$0.00025)	(\$3,148)	\$32,492	(\$102,540)	(\$97,286)
Mar-19	Actual	42,603,866	47.2%	20,112,432	(\$0.00101)	(\$20,314)	27,981,529	51.1%	14,288,512	(\$0.00021)	(\$3,001)	25,767,182	52.8%	13,607,881	(\$0.00025)	(\$3,402)	\$27,239	(\$98,273)	(\$97,750)
Apr-19	Actual	37,437,025	41.9%	15,678,549	(\$0.00101)	(\$15,835)	26,954,899	46.3%	12,476,440	(\$0.00021)	(\$2,620)	26,251,027	48.1%	12,616,574	(\$0.00025)	(\$3,154)	\$26,716	(\$92,575)	(\$87,468)
May-19	Estimate	34,666,052	48.8%	16,911,302	(\$0.00101)	(\$17,080)	26,475,942	50.4%	13,331,008	(\$0.00021)	(\$2,800)	28,549,126	50.0%	14.274.563	(\$0.00025)	(\$3,569)	\$21,610	(\$93,803)	(\$95,642)
Jun-19	Estimate	34,841,818	66.7%	23,238,771	(\$0.00101)	(\$23,471)	26,556,191	61.7%	16,385,976	(\$0.00021)	(\$3,441)	28,160,365	55.6%	15,644,647	(\$0.00025)	(\$3,911)	\$23,449	(\$91,429)	(\$98,803)
Jul-19	Estimate	48,790,035	53.7%	26,221,046	(\$0.00101)	(\$26,483)	32,769,967	51.3%	16,807,312	(\$0.00021)	(\$3,530)	33,756,152	48.1%	16,223,887	(\$0.00025)	(\$4,056)	\$30,823	(\$119,854)	(\$123,100)
Total Aug	-18 to Jul-19	516,870,082		254,921,520		(\$257,471)	347,410,530		173,494,903		(\$36,434)	342,660,310		172,593,259		(\$43,148)	\$322,906	(\$1,206,870)	(\$1,221,016)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed kWh - all classes except G2 demand and G1	Unbilled Factor	Unbilled kWh (a * b)	Proposed SCC	Unbilled SCC Revenue (c * d)	Total Billed kWh - G2 demand	Unbilled Factor	Unbilled kWh (f * g)	Proposed SCC	Unbilled SCC Revenue (h * i)	Total Billed kWh · G1	Unbilled Factor	Unbilled kWh (k * l)	Proposed SCC	Unbilled SCC Revenue (m * n)	Reversal of prior month unbilled (prior month, e + j + o)	Total Billed SCC Revenue	Total Revenue (e + j + o + p + q)
Aug 10	Estimate	48,319,594	44.5%	21,495,027	(\$0.00012)	(\$2,579)	31,772,357	47.3%	15,034,187	(\$0.00002)	(\$301)	33,090,850	51.2%	16,948,972	(\$0.00003)	(\$508)	\$34,069	(\$42,886)	(\$12,206)
Aug-19		38,165,428	53.6%	20,440,038	(\$0.00012)		26,988,914	47.3 % 57.0%	15,372,590			29,139,343	62.5%	18,212,089	(\$0.00003)		\$3,389		
Sep-19	Estimate		53.6% 51.0%			(\$2,453)		48.5%		(\$0.00002)	(\$307)					(\$546)		(\$11,181)	(\$11,099)
Oct-19	Estimate	38,092,956		19,444,612	(\$0.00012)	(\$2,333)	28,429,403		13,779,333	(\$0.00002)	(\$276)	30,025,038	48.1%	14,430,638	(\$0.00003)	(\$433)	\$3,307	(\$11,320)	(\$11,055)
Nov-19	Estimate	35,910,824	63.1%	22,661,953	(\$0.00012)	(\$2,719)	24,875,135	59.1%	14,698,765	(\$0.00002)	(\$294)	24,989,097	57.2%	14,302,615	(\$0.00003)	(\$429)	\$3,042	(\$10,156)	(\$10,557)
Dec-19	Estimate	42,669,318	56.9%	24,259,836	(\$0.00012)	(\$2,911)	27,997,603	54.3%	15,202,318	(\$0.00002)	(\$304)	25,384,398	53.0%	13,457,425	(\$0.00003)	(\$404)	\$3,442	(\$10,912)	(\$11,089)
Jan-20	Estimate	52,383,885	47.9%	25,077,032	(\$0.00012)	(\$3,009)	30,627,787	47.0%	14,388,581	(\$0.00002)	(\$288)	27,661,552	46.4%	12,846,563	(\$0.00003)	(\$385)	\$3,619	(\$12,564)	(\$12,627)
Feb-20	Estimate	45,082,708	55.9%	25,212,244	(\$0.00012)	(\$3,025)	27,972,459	57.9%	16,186,623	(\$0.00002)	(\$324)	24,959,144	58.9%	14,708,067	(\$0.00003)	(\$441)	\$3,682	(\$11,173)	(\$11,281)
Mar-20	Estimate	42,065,020	46.5%	19,555,137	(\$0.00012)	(\$2,347)	29,139,603	48.8%	14,209,403	(\$0.00002)	(\$284)	26,843,193	49.8%	13,367,695	(\$0.00003)	(\$401)	\$3,790	(\$11,340)	(\$10,581)
Apr-20	Estimate	38,271,780	43.6%	16,684,734	(\$0.00012)	(\$2,002)	27,205,270	47.1%	12,826,930	(\$0.00002)	(\$257)	25,948,608	48.6%	12,606,611	(\$0.00003)	(\$378)	\$3,032	(\$10,529)	(\$10,134)
May-20	Estimate	31,502,837	62.0%	19,531,994	(\$0.00012)	(\$2,344)	24,022,734	64.0%	15,375,307	(\$0.00002)	(\$308)	25,447,878	63.6%	16,173,540	(\$0.00003)	(\$485)	\$2,637	(\$9,524)	(\$10,024)
Jun-20	Estimate	38,023,705	56.4%	21,432,959	(\$0.00012)	(\$2,572)	29,059,118	52.1%	15,131,798	(\$0.00002)	(\$303)	30,268,458	46.9%	14,188,340	(\$0.00003)	(\$426)	\$3,137	(\$11,183)	(\$11,347)
Jul-20	Estimate	48,839,343	53.8%	26,264,566	(\$0.00012)	(\$3,152)	32,785,793	51.3%	16,817,292	(\$0.00002)	(\$336)	33,165,064	48.1%	15,939,798	(\$0.00003)	(\$478)	\$3,300	(\$13,445)	(\$14,111)
Total Aug	g-19 to Jul-20	499,327,396		262,060,132		(\$31,447)	340,876,176		179,023,127		(\$3,580)	336,922,622		177,182,353		(\$5,315)	\$70,446	(\$166,214)	(\$136,111)

(1) Actual Per billing system.
 (2) Detail of Unbilled Factors shown on page 4.

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### As filed in DE 20-098 June 17, 2020

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Unitil Energy Systems, Inc. Stranded Cost Charge Revenues

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(i)	(k)	(1)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed	(5)	(0)	(4)	(0)	(.)	(9)	()	(.)	U/	(14)	(.)	()	()	(0)	Reversal of	(9)	(.)
		kWh - all															prior month		
		classes except				Unbilled SCC	Total Billed				Unbilled SCC					Unbilled SCC	unbilled (prior		Total Revenue
		G2 demand	Unbilled	Unbilled kWh	Proposed	Revenue	kWh - G2	Unbilled	Unbilled kWh	Proposed	Revenue (h *	Total Billed kWh ·	Unbilled	Unbilled kWh	Proposed	Revenue (m *	month, e + j +	Total Billed	(e + j + o + p +
		and G1	Factor	(a * b)	SCC	(c * d)	demand	Factor	(f * g)	SCC	i)	G1	Factor	(k * l)	SCC	n)	o)	SCC Revenue	q)
Aug-18	Actual	55,179,734	42.5%	23,437,437	(\$0.00101)	(\$23,672)	34,842,998	44.9%	15,644,610	(\$0.00021)	(\$3,285)	33,810,990	48.9%	16,533,152	(\$0.00025)	(\$4,133)	\$19,922	(\$97,383)	(\$108,552)
Sep-18	Actual	47,327,882	40.3%	19,075,860	(\$0.00101)	(\$19,267)	31,457,574	45.8%	14,393,092	(\$0.00021)	(\$3,023)	31,095,868	53.7%	16,689,264	(\$0.00025)	(\$4,172)	\$31,090	(\$112,855)	(\$108,226)
Oct-18	Actual	36,017,909	51.3%	18,490,289	(\$0.00101)	(\$18,675)	27,340,477	51.3%	14,035,610	(\$0.00021)	(\$2,947)	29,080,302	51.3%	14,928,773	(\$0.00025)	(\$3,732)	\$26,461	(\$96,109)	(\$95,002)
Nov-18	Actual	37,374,501	58.5%	21,862,926	(\$0.00101)	(\$22,082)	25,583,071	54.0%	13,810,022	(\$0.00021)	(\$2,900)	25,745,662	52.0%	13,400,046	(\$0.00025)	(\$3,350)	\$25,355	(\$92,723)	(\$95,700)
Dec-18	Actual	46,662,841	48.9%	22,841,095	(\$0.00101)	(\$23,070)	29,491,402	49.1%	14,492,439	(\$0.00021)	(\$3,043)	26,844,281	49.2%	13,215,844	(\$0.00025)	(\$3,304)	\$28,332	(\$103,074)	(\$104,160)
Jan-19	Actual	49,931,703	52.1%	26,000,645	(\$0.00101)	(\$26,261)	29,168,271	49.2%	14,359,218	(\$0.00021)	(\$3,015)	26,979,309	47.7%	12,865,368	(\$0.00025)	(\$3,216)	\$29,417	(\$106,252)	(\$109,327)
Feb-19	Actual	46,036,715	45.7%	21,051,168	(\$0.00101)	(\$21,262)	28,788,209	46.8%	13,470,664	(\$0.00021)	(\$2,829)	26,620,046	47.3%	12,593,260	(\$0.00025)	(\$3,148)	\$32,492	(\$102,540)	(\$97,286)
Mar-19	Actual	42,603,866	47.2%	20,112,432	(\$0.00101)	(\$20,314)	27,981,529	51.1%	14,288,512	(\$0.00021)	(\$3,001)	25,767,182	52.8%	13,607,881	(\$0.00025)	(\$3,402)	\$27,239	(\$98,273)	(\$97,750)
Apr-19	Actual	37,437,025	41.9%	15,678,549	(\$0.00101)	(\$15,835)	26,954,899	46.3%	12,476,440	(\$0.00021)	(\$2,620)	26,251,027	48.1%	12,616,574	(\$0.00025)	(\$3,154)	\$26,716	(\$92,575)	(\$87,468)
May-19	Actual	34,086,778	47.6%	16,229,179	(\$0.00101)	(\$16,391.47)	25,979,751	47.6%	12,369,313	(\$0.00021)	(\$2,597.56)	26,311,636	47.6%	12,527,328	(\$0.00025)	(\$3,132)	\$21,610	(\$90,120)	(\$90,632)
Jun-19	Actual	32,980,419	70.5%	23,262,900	(\$0.00101)	(\$23,496)	25,883,740	61.8%	16,001,966	(\$0.00021)	(\$3,360)	26,101,159	52.9%	13,817,212	(\$0.00025)	(\$3,454)	\$22,121	(\$90,036)	(\$98,225)
Jul-19	Actual	49,321,275	55.8%	27,544,831	(\$0.00101)	<u>(\$27,820)</u>	32,996,235	51.1%	16,866,204	(\$0.00021)	<u>(\$3,542)</u>	31,937,058	44.2%	14,120,480	(\$0.00025)	<u>(\$3,530)</u>	\$30,310	<u>(\$113,087)</u>	<u>(\$117,669)</u>
Total Aug-18	8 to Jul-19	514,960,648		255,587,312		(\$258,143)	346,468,156		172,208,090		(\$36,164)	336,544,520		166,915,183		(\$41,729)	\$321,065	(\$1,195,027)	(\$1,209,998)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed															Reversal of		
		kWh - all															prior month		
		classes except				Unbilled SCC	Total Billed				Unbilled SCC					Unbilled SCC	unbilled (prior		Total Revenue
		G2 demand	Unbilled	Unbilled kWh	Proposed	Revenue	kWh - G2	Unbilled	Unbilled kWh	Proposed	Revenue (h *	Total Billed kWh -	Unbilled	Unbilled kWh	Proposed	Revenue (m *	month, e + j +		(e + j + o + p +
		and G1	Factor	(a * b)	SCC	(c * d)	demand	Factor	(f * g)	SCC	i)	G1	Factor	(k * l)	SCC	n)	o)	SCC Revenue	q)
Aug-19	Actual	53,027,436	39.8%	21,100,676	(\$0.00012)	(\$2,532)	34,022,817	42.6%	14,508,094	(\$0.00002)	(\$290)	31,487,105	47.2%	14,876,605	(\$0.00003)	(\$446)	\$34,892	(\$58,078)	(\$26,454)
Sep-19	Actual	37,400,462	50.7%	18,979,951	(\$0.00012)	(\$2,278)	26,975,422	54.4%	14,679,100	(\$0.00002)	(\$294)	26,550,095	58.9%	15,651,181	(\$0.00003)	(\$470)	\$3,269	(\$10,826)	(\$10,598)
Oct-19	Actual	36,317,555	47.3%	17,194,744	(\$0.00012)	(\$2,063)	27,590,483	47.3%	13,062,865	(\$0.00002)	(\$261)	28,768,997	47.3%	13,620,838	(\$0.00003)	(\$409)	\$3,041	(\$10,645)	(\$10,338)
Nov-19	Actual	34,390,560	63.0%	21,676,436	(\$0.00012)	(\$2,601)	24,233,929	58.5%	14,182,967	(\$0.00002)	(\$284)	25,181,926	56.6%	14,261,014	(\$0.00003)	(\$428)	\$2,733	(\$9,852)	(\$10,432)
Dec-19	Actual	43,780,767	61.2%	26,787,005	(\$0.00012)	(\$3,214)	26,763,533	58.8%	15,727,973	(\$0.00002)	(\$315)	25,883,060	57.5%	14,892,688	(\$0.00003)	(\$447)	\$3,313	(\$11,019)	(\$11,682)
Jan-20	Actual	49,242,417	53.3%	26,265,744	(\$0.00012)	(\$3,152)	29,121,178	51.6%	15,019,673	(\$0.00002)	(\$300)	27,162,976	50.6%	13,733,614	(\$0.00003)	(\$412)	\$3,976	(\$11,752)	(\$11,640)
Feb-20	Actual	44,764,424	44.8%	20,033,132	(\$0.00012)	(\$2,404)	28,684,028	46.4%	13,307,382	(\$0.00002)	(\$266)	27,360,368	47.2%	12,926,860	(\$0.00003)	(\$388)	\$3,864	(\$11,242)	(\$10,435)
Mar-20	Actual	43,037,877	40.0%	17,221,536	(\$0.00012)	(\$2,067)	28,061,068	40.7%	11,420,666	(\$0.00002)	(\$228)	27,375,056	41.0%	11,236,663	(\$0.00003)	(\$337)	\$3,058	(\$11,047)	(\$10,621)
Apr-20	Actual	37,952,388	46.9%	17,799,118	(\$0.00012)	(\$2,136)	21,033,411	47.2%	9,930,371	(\$0.00002)	(\$199)	23,199,379	47.4%	11,001,277	(\$0.00003)	(\$330)	\$2,632	(\$9,856)	(\$9,888)
May-20	Actual	35,777,293	51.8%	18,530,120	(\$0.00012)	(\$2,224)	20,197,196	51.8%	10,460,726	(\$0.00002)	(\$209)	23,230,381	51.8%	12,031,703	(\$0.00003)	(\$361)	\$2,665	(\$9,582)	(\$9,711)
Jun-20	Estimate	39,968,681	59.4%	23,746,773	(\$0.00012)	(\$2,850)	24,309,897	52.9%	12,862,377	(\$0.00002)	(\$257)	25,408,771	46.9%	11,910,362	(\$0.00003)	(\$357)	\$2,794	(\$10,720)	(\$11,390)
Jul-20	Estimate	43,609,561	56.3%	24,562,402	(\$0.00012)	(\$2,947)	24,688,504	53.0%	13,073,560	(\$0.00002)	(\$261)	27,205,598	48.8%	13,286,455	(\$0.00003)	(\$399)	\$3,464	(\$10,946)	(\$11,090)
Total Aug	-19 to Jul-20	499,269,422		253,897,638		(\$30,468)	315,681,466		158,235,754		(\$3,165)	318,813,713		159,429,262		(\$4,783)	\$69,700	(\$175,565)	(\$144,280)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(i)	(k)	(1)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed	(-)	(-)	(-)	(-)		(3)	( )	()	0,	( )	()	( )	( )	(-)	Reversal of	(1)	( )
		kWh - all															prior month		
		classes except				Unbilled SCC	Total Billed				Unbilled SCC					Unbilled SCC	unbilled (prior		Total Revenue
		G2 demand	Unbilled	Unbilled kWh	Proposed	Revenue	kWh - G2	Unbilled	Unbilled kWh	Proposed	Revenue (h *	Total Billed kWh ·	Unbilled	Unbilled kWh	Proposed	Revenue (m *	month, e + j +	Total Billed	(e + j + o + p +
		and G1	Factor	(a * b)	SCC	(c * d)	demand	Factor	(f * g)	SCC	i)	G1	Factor	(k * l)	SCC	n)	o)	SCC Revenue	q)
	_																		
Aug-20	Estimate	50,247,883	59.6%	29,964,206	(\$0.00025)	(\$7,491)	26,694,719	63.5%	16,954,207	(\$0.00005)	(\$848)	26,989,913	68.5%	18,490,961	(\$0.00006)	(\$1,109)	\$3,608	(\$21,297)	(\$27,138)
Sep-20	Estimate	48,397,269	42.5%	20,547,673	(\$0.00025)	(\$5,137)	27,522,015	47.6%	13,098,572	(\$0.00005)	(\$655)	27,466,271	53.2%	14,600,197	(\$0.00006)	(\$876)	\$9,448	(\$26,673)	(\$23,893)
Oct-20	Estimate	32,446,813	65.8%	21,333,951	(\$0.00025)	(\$5,333)	20,291,401	65.8%	13,341,703	(\$0.00005)	(\$667)	22,507,257	65.8%	14,798,640	(\$0.00006)	(\$888)	\$6,668	(\$18,987)	(\$19,208)
Nov-20	Estimate	35,459,833	77.1%	27,335,829	(\$0.00025)	(\$6,834)	20,811,863	72.0%	14,985,499	(\$0.00005)	(\$749)	22,778,679	69.7%	15,876,049	(\$0.00006)	(\$953)	\$6,888	(\$20,353)	(\$22,000)
Dec-20	Estimate	46,092,323	53.0%	24,407,070	(\$0.00025)	(\$6,102)	24,405,190	50.0%	12,192,966	(\$0.00005)	(\$610)	24,806,303	48.5%	12,027,298	(\$0.00006)	(\$722)	\$8,536	(\$23,760)	(\$22,657)
Jan-21	Estimate	47,973,565	50.6%	24,260,857	(\$0.00025)	(\$6,065)	24,141,967	49.2%	11,868,173	(\$0.00005)	(\$593)	23,191,865	48.3%	11,205,058	(\$0.00006)	(\$672)	\$7,433	(\$23,117)	(\$23,015)
Feb-21	Estimate	46,036,840	52.8%	24,302,168	(\$0.00025)	(\$6,076)	24,557,692	55.1%	13,538,640	(\$0.00005)	(\$677)	23,746,338	56.4%	13,393,585	(\$0.00006)	(\$804)	\$7,331	(\$22,787)	(\$23,013)
Mar-21	Estimate	44,907,506	48.1%	21,599,347	(\$0.00025)	(\$5,400)	26,820,806	50.1%	13,433,848	(\$0.00005)	(\$672)	26,215,509	51.0%	13,370,962	(\$0.00006)	(\$802)	\$7,556	(\$24,557)	(\$23,875)
Apr-21	Estimate	36,945,781	47.4%	17,509,728	(\$0.00025)	(\$4,377)	22,958,874	51.9%	11,906,887	(\$0.00005)	(\$595)	23,332,177	53.8%	12,563,480	(\$0.00006)	(\$754)	\$6,874	(\$20,799)	(\$19,652)
May-21	Estimate	34,086,256	72.4%	24,693,599	(\$0.00025)	(\$6,173)	22,555,149	72.4%	16,339,952	(\$0.00005)	(\$817)	23,453,191	72.4%	16,990,534	(\$0.00006)	(\$1,019)	\$5,727	(\$20,467)	(\$22,750)
Jun-21	Estimate	37,821,440	59.4%	22,471,023	(\$0.00025)	(\$5,618)	24,898,278	52.9%	13,173,690	(\$0.00005)	(\$659)	24,815,104	46.9%	11,632,080	(\$0.00006)	(\$698)	\$8,010	(\$22,486)	(\$21,451)
Jul-21	Estimate	42,856,352	56.3%	24,138,169	(\$0.00025)	(\$6,035)	26,256,194	53.0%	13,903,715	(\$0.00005)	(\$695)	27,619,994	48.8%	13,488,834	(\$0.00006)	(\$809)	\$6,974	(\$23,775)	(\$24,339)
																		-	
Total Aug	g-20 to Jul-21	503,271,863		282,563,620		(\$70,641)	291,914,147		164,737,852		(\$8,237)	296,922,600		168,437,679		(\$10,106)	\$85,053	(\$269,060)	(\$272,992)

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## Unitil Energy Systems, Inc. Stranded Cost Charge Revenues

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed															Reversal of		
		kWh - all															prior month		
		classes except				Unbilled SCC	Total Billed				Unbilled SCC						unbilled (prior		Total Revenue
		G2 demand	Unbilled	Unbilled kWh	Proposed	Revenue	kWh - G2	Unbilled	Unbilled kWh	Proposed	Revenue (h *		Unbilled	Unbilled kWh	Proposed	Revenue (m *	month, e + j +		(e + j + o + p +
		and G1	Factor	(a * b)	SCC	(c * d)	demand	Factor	(f * g)	SCC	i)	G1	Factor	(k * l)	SCC	n)	o)	SCC Revenue	q)
Aug-19	Actual	53,027,436	39.8%	21,100,676	(\$0.00012)	(\$2,532)	34,022,817	42.6%	14,508,094	(\$0.00002)	(\$290)	31,487,105	47.2%	14,876,605	(\$0.00003)	(\$446)	\$34,892	(\$58,078)	(\$26,454)
Sep-19	Actual	37,400,462	50.7%	18,979,951	(\$0.00012)	(\$2,278)	26,975,422	54.4%	14,679,100	(\$0.00002)	(\$294)	26,550,095	58.9%	15,651,181	(\$0.00003)	(\$470)	\$3,269	(\$10,826)	(\$10,598)
Oct-19	Actual	36,317,555	47.3%	17,194,744	(\$0.00012)	(\$2,063)	27,590,483	47.3%	13,062,865	(\$0.00002)	(\$261)	28,768,997	47.3%	13,620,838	(\$0.00003)	(\$409)	\$3,041	(\$10,645)	(\$10,338)
Nov-19	Actual	34,390,560	63.0%	21,676,436	(\$0.00012)	(\$2,601)	24,233,929	58.5%	14,182,967	(\$0.00002)	(\$284)	25,181,926	56.6%	14,261,014	(\$0.00003)	(\$428)	\$2,733	(\$9,852)	(\$10,432)
Dec-19	Actual	43,780,767	61.2%	26,787,005	(\$0.00012)	(\$3,214)	26,763,533	58.8%	15,727,973	(\$0.00002)	(\$315)	25,883,060	57.5%	14,892,688	(\$0.00003)	(\$447)	\$3,313	(\$11,019)	(\$11,682)
Jan-20	Actual	49,242,417	53.3%	26,265,744	(\$0.00012)	(\$3,152)	29,121,178	51.6%	15,019,673	(\$0.00002)	(\$300)	27,162,976	50.6%	13,733,614	(\$0.00003)	(\$412)	\$3,976	(\$11,752)	(\$11,640)
Feb-20	Actual	44,764,424	44.8%	20,033,132	(\$0.00012)	(\$2,404)	28,684,028	46.4%	13,307,382	(\$0.00002)	(\$266)	27,360,368	47.2%	12,926,860	(\$0.00003)	(\$388)	\$3,864	(\$11,242)	(\$10,435)
Mar-20	Actual	43,037,877	40.0%	17,221,536	(\$0.00012)	(\$2,067)	28,061,068	40.7%	11,420,666	(\$0.00002)	(\$228)	27,375,056	41.0%	11,236,663	(\$0.00003)	(\$337)	\$3,058	(\$11,047)	(\$10,621)
Apr-20	Actual	37,952,388	46.9%	17,799,118	(\$0.00012)	(\$2,136)	21,033,411	47.2%	9,930,371	(\$0.00002)	(\$199)	23,199,379	47.4%	11,001,277	(\$0.00003)	(\$330)	\$2,632	(\$9,856)	(\$9,888)
May-20	Actual	35,777,293	51.8%	18,530,120	(\$0.00012)	(\$2,224)	20,197,196	51.8%	10,460,726	(\$0.00002)	(\$209)	23,230,381	51.8%	12,031,703	(\$0.00003)	(\$361)	\$2,665	(\$9,582)	(\$9,711)
Jun-20	Actual	43,968,251	55.7%	24,478,987	(\$0.00012)	(\$2,937)	25,493,967	50.7%	12,928,993	(\$0.00002)	(\$259)	27,500,834	41.3%	11,351,590	(\$0.00003)	(\$341)	\$2,794	(\$11,332)	(\$12,074)
Jul-20	Actual	54,340,664	51.9%	28,228,283	(\$0.00012)	(\$3,387)	29,616,140	49.5%	14,667,284	(\$0.00002)	(\$293)	29,386,736	44.0%	12,922,506	(\$0.00003)	(\$388)	\$3,537	(\$12,950)	(\$13,482)
						<u></u>										<u></u>			
Total Aug	-19 to Jul-20	514,000,094		258,295,732		(\$30,995)	321,793,172		159,896,095		(\$3,198)	323,086,913		158,506,541		(\$4,755)	\$69,772	(\$178,180)	(\$147,356)

		(a) Tatal Billad	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(i)	(k)	(I)	(m)	(n)	(o)	(p) Deversel of	(q)	(r)
		Total Billed kWh - all															Reversal of		
		classes except				Unbilled SCC	Total Billed				Unbilled SCC					Unbilled SCC	prior month unbilled (prior		Total Revenue
		G2 demand	Unbilled	Unbilled kWh	Proposed	Revenue	kWh - G2	Unbilled	Unbilled kWh	Proposed	Revenue (h *	Total Billed kWh ·	Unbilled	Unbilled kWh	Proposed	Revenue (m *	month, e + j +	Total Billed	(e + j + o + p + j)
		and G1	Factor	(a * b)	SCC	(c * d)	demand	Factor	(f * a)	SCC	i)	G1	Factor	(k * l)	SCC	n)	(1) (1) (1)	SCC Revenue	a)
		und of	1 40101	(4 5)	000	(0 0)	domand	1 40101	(• 9/	000	.,	0.	1 40101	(	000	,	3)	ooo noronao	9/
Aug-20	Actual	58,734,937	33.3%	19,568,590	(\$0.00025)	(\$4,892)	30,665,177	38.3%	11,737,239	(\$0.00005)	(\$587)	29,935,971	51.5%	15,405,825	(\$0.00006)	(\$924)	\$4,068	(\$22,480)	(\$24,815)
Sep-20	Actual	45,930,666	34.5%	15,830,611	(\$0.00025)	(\$3,958)	28,590,103	36.6%	10,474,138	(\$0.00005)	(\$524)	29,722,799	40.0%	11,900,207	(\$0.00006)	(\$714)	\$6,403	(\$25,663)	(\$24,455)
Oct-20	Actual	32,824,398	56.7%	18,616,123	(\$0.00025)	(\$4,654)	22,317,914	56.7%	12,657,446	(\$0.00005)	(\$633)	24,642,676	56.7%	13,975,918	(\$0.00006)	(\$839)	\$5,195	(\$21,161)	(\$22,091)
Nov-20	Actual	35,807,996	66.3%	23,732,487	(\$0.00025)	(\$5,933)	22,648,750	61.5%	13,935,601	(\$0.00005)	(\$697)	24,432,498	59.0%	14,406,953	(\$0.00006)	(\$864)	\$6,125	(\$21,386)	(\$22,755)
Dec-20	Actual	46,135,333	56.1%	25,872,227	(\$0.00025)	(\$6,468)	25,705,566	53.3%	13,704,358	(\$0.00005)	(\$685)	25,817,785	51.5%	13,297,591	(\$0.00006)	(\$798)	\$7,494	(\$24,030)	(\$24,487)
Jan-21	Actual	49,549,245	55.9%	27,694,252	(\$0.00025)	(\$6,924)	25,878,482	54.3%	14,046,418	(\$0.00005)	(\$702)	25,351,429	53.2%	13,475,980	(\$0.00006)	(\$809)	\$7,951	(\$24,474)	(\$24,958)
Feb-21	Actual	48,289,427	48.2%	23,257,509	(\$0.00025)	(\$5,814)	26,624,063	48.9%	13,019,761	(\$0.00005)	(\$651)	25,812,410	49.4%	12,743,614	(\$0.00006)	(\$765)	\$8,434	(\$24,999)	(\$23,794)
Mar-21	Actual	48,278,565	35.0%	16,886,041	(\$0.00025)	(\$4,222)	28,299,035	38.9%	11,005,077	(\$0.00005)	(\$550)	27,626,162	41.1%	11,364,379	(\$0.00006)	(\$682)	\$7,230	(\$25,014)	(\$23,237)
Apr-21	Actual	35,804,861	46.1%	16,499,185	(\$0.00025)	(\$4,125)	23,419,096	46.9%	10,973,868	(\$0.00005)	(\$549)	24,806,383	47.2%	11,719,285	(\$0.00006)	(\$703)	\$5,454	(\$21,496)	(\$21,419)
May-21	Estimate	37,240,247	51.8%	19,287,827	(\$0.00025)	(\$4,822)	25,353,863	51.8%	13,131,517	(\$0.00005)	(\$657)	27,352,511	51.8%	14,166,676	(\$0.00006)	(\$850)	\$5,377	(\$22,610)	(\$23,562)
Jun-21	Estimate	37,450,986	55.7%	20,850,549	(\$0.00025)	(\$5,213)	26,343,516	50.7%	13,359,833	(\$0.00005)	(\$668)	28,481,805	41.3%	11,756,508	(\$0.00006)	(\$705)	\$6,329	(\$23,160)	(\$23,417)
Jul-21	Estimate	47,561,316	51.9%	24,706,623	(\$0.00025)	<u>(\$6,177)</u>	30,436,173	49.5%	15,073,402	(\$0.00005)	<u>(\$754)</u>	30,796,349	44.0%	13,542,368	(\$0.00006)	<u>(\$813)</u>	\$6,586	<u>(\$26,736)</u>	<u>(\$27,893)</u>
T-t-LA.	- 00 4- 1-1 04	500 007 077		050 000 000		(\$00.004)	040 004 707		450 440 057		(67.050)	004 770 770		457 755 005		(\$0.405)	¢70.047	(\$000.000)	(\$000.000)
I otal Au	g-20 to Jul-21	523,607,977		252,802,023		(\$63,201)	316,281,737		153,118,657		(\$7,656)	324,778,778		157,755,305		(\$9,465)	\$76,647	(\$283,209)	(\$286,883)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)	(q)	(r)
		Total Billed															Reversal of		
		kWh - all					Tatal Dillad										prior month		Total David
		classes except	Line in Street		Deserved	Unbilled SCC	Total Billed	Link Werd	List the diam'r	Descended	Unbilled SCC	Tatal Dilla d DAth	Link Strad	List the distant	Description	Unbilled SCC	· · · · · ·	Tetel Dilled	Total Revenue
		G2 demand	Unbilled	Unbilled kWh	Proposed	Revenue	kWh - G2	Unbilled	Unbilled kWh	Proposed	Revenue (h *	Total Billed kWh -	Unbilled	Unbilled kWh	Proposed	Revenue (m *	month, e + j +		(e + j + o + p +
		and G1	Factor	(a * b)	SCC	(c * d)	demand	Factor	(f * g)	SCC	I)	G1	Factor	(k * l)	SCC	n)	o)	SCC Revenue	q)
Aug-21	Estimate	53,281,106	33.3%	17,751,549	(\$0.00002)	(\$355)	32,922,211	38.3%	12,601,129	(\$0.00002)	(\$252)	32.212.642	51.5%	16,577,458	(\$0.00002)	(\$332)	\$7,743	(\$9,045)	(\$2,240)
Sep-21	Estimate	42,197,521	34.5%	14,543,934	(\$0.00002)	(\$291)	29,153,690	36.6%	10,680,611	(\$0.00002)	(\$214)	30,136,622	40.0%	12,065,890	(\$0.00002)	(\$241)	\$939	(\$2,030)	(\$1,837)
Oct-21	Estimate	32,924,882	56.7%	18,673,112	(\$0.00002)	(\$373)	24,693,113	56.7%	14,004,523	(\$0.00002)	(\$280)	26,667,845	56.7%	15,124,478	(\$0.00002)	(\$302)	\$746	(\$1,686)	(\$1,896)
Nov-21	Estimate	36,369,145	66.3%	24,104,400	(\$0.00002)	(\$482)	25,351,031	61.5%	15,598,293	(\$0.00002)	(\$312)	26,060,038	59.0%	15,366,654	(\$0.00002)	(\$307)	\$956	(\$1,756)	(\$1,901)
Dec-21	Estimate	44,483,022	56.1%	24,945,627	(\$0.00002)	(\$499)	28,922,262	53.3%	15,419,269	(\$0.00002)	(\$308)	28,069,921	51.5%	14,457,566	(\$0.00002)	(\$289)	\$1,101	(\$2,030)	(\$2,025)
Jan-22	Estimate	46,797,775	55.9%	26,156,390	(\$0.00002)	(\$523)	28,961,647	54.3%	15,719,910	(\$0.00002)	(\$314)	26,959,020	53.2%	14,330,523	(\$0.00002)	(\$287)	\$1,096	(\$2,054)	(\$2,082)
Feb-22	Estimate	46,085,430	48.2%	22,196,004	(\$0.00002)	(\$444)	27,878,987	48.9%	13,633,447	(\$0.00002)	(\$273)	25,496,392	49.4%	12,587,596	(\$0.00002)	(\$252)	\$1,124	(\$1,989)	(\$1,833)
Mar-22	Estimate	41,482,395	35.0%	14,508,994	(\$0.00002)	(\$290)	26,894,088	38.9%	10,458,714	(\$0.00002)	(\$209)	25,797,609	41.1%	10,612,180	(\$0.00002)	(\$212)	\$968	(\$1,883)	(\$1,627)
Apr-22	Estimate	39,819,382	46.1%	18,349,111	(\$0.00002)	(\$367)	27,193,470	46.9%	12,742,488	(\$0.00002)	(\$255)	26,855,396	47.2%	12,687,301	(\$0.00002)	(\$254)	\$712	(\$1,877)	(\$2,041)
May-22	Estimate	35,211,408	51.8%	18,237,032	(\$0.00002)	(\$365)	26,513,783	51.8%	13,732,274	(\$0.00002)	(\$275)	27,394,730	51.8%	14,188,542	(\$0.00002)	(\$284)	\$876	(\$1,782)	(\$1,830)
Jun-22	Estimate	35,510,445	55.7%	19,770,168	(\$0.00002)	(\$395)	27,290,884	50.7%	13,840,281	(\$0.00002)	(\$277)	28,408,795	41.3%	11,726,372	(\$0.00002)	(\$235)	\$923	(\$1,824)	(\$1,808)
Jul-22	Estimate	45,750,202	51.9%	23,765,805	(\$0.00002)	<u>(\$475)</u>	31,559,488	49.5%	15,629,720	(\$0.00002)	<u>(\$313)</u>	30,917,739	44.0%	13,595,748	(\$0.00002)	<u>(\$272)</u>	\$907	<u>(\$2,165)</u>	<u>(\$2,318)</u>
Total Aug	g-21 to Jul-22	499,912,714		243,002,125		(\$4,860)	337,334,654		164,060,658		(\$3,281)	334,976,749		163,320,309		(\$3,266)	\$18,091	(\$30,121)	(\$23,438)

#### As filed in DE 22-038 June 17, 2022

## Schedule LSM-1 Page 3 of 4

Unitil Energy Systems, Inc. Stranded Cost Charge Revenues

		(a) Total Billed kWh - all	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p) Reversal of prior month	(q)	(r)
		classes except				Unbilled SCC	Total Billed				Unbilled SCC					Unbilled SCC	unbilled (prior		Total Revenue
		G2 demand	Unbilled	Unbilled kWh	Proposed	Revenue	kWh - G2	Unbilled	Unbilled kWh	Proposed	Revenue (h *	Total Billed kWh ·	Unbilled	Unbilled kWh	Proposed	Revenue (m *	month, e + j +	Total Billed	(e + j + o + p +
		and G1	Factor	(a * b)	SCC	(c * d)	demand	Factor	(f * g)	SCC	i)	G1	Factor	(k * l)	SCC	n)	o)	SCC Revenue	q)
						(					(					(******)		(	(0.0.1.0.1.0)
Aug-20	Actual	58,734,937	33.3%	19,568,590	(\$0.00025)	(\$4,892)	30,665,177	38.3%	11,737,239	(\$0.00005)	(\$587)	29,935,971	51.5%	15,405,825	(\$0.00006)	(\$924)	\$4,068	(\$22,480)	(\$24,815)
Sep-20	Actual	45,930,666	34.5%	15,830,611	(\$0.00025)	(\$3,958)	28,590,103	36.6%	10,474,138	(\$0.00005)	(\$524)	29,722,799	40.0%	11,900,207	(\$0.00006)	(\$714)	\$6,403	(\$25,663)	(\$24,455)
Oct-20	Actual	32,824,398	56.7%	18,616,123	(\$0.00025)	(\$4,654)	22,317,914	56.7%	12,657,446	(\$0.00005)	(\$633)	24,642,676	56.7%	13,975,918	(\$0.00006)	(\$839)	\$5,195	(\$21,161)	(\$22,091)
Nov-20	Actual	35,807,996	66.3%	23,732,487	(\$0.00025)	(\$5,933)	22,648,750	61.5%	13,935,601	(\$0.00005)	(\$697)	24,432,498	59.0%	14,406,953	(\$0.00006)	(\$864)	\$6,125	(\$21,386)	(\$22,755)
Dec-20	Actual	46,135,333	56.1%	25,872,227	(\$0.00025)	(\$6,468)	25,705,566	53.3%	13,704,358	(\$0.00005)	(\$685)	25,817,785	51.5%	13,297,591	(\$0.00006)	(\$798)	\$7,494	(\$24,030)	(\$24,487)
Jan-21	Actual	49,549,245	55.9%	27,694,252	(\$0.00025)	(\$6,924)	25,878,482	54.3%	14,046,418	(\$0.00005)	(\$702)	25,351,429	53.2%	13,475,980	(\$0.00006)	(\$809)	\$7,951	(\$24,474)	(\$24,958)
Feb-21	Actual	48,289,427	48.2%	23,257,509	(\$0.00025)	(\$5,814)	26,624,063	48.9%	13,019,761	(\$0.00005)	(\$651)	25,812,410	49.4%	12,743,614	(\$0.00006)	(\$765)	\$8,434	(\$24,999)	(\$23,794)
Mar-21	Actual	48.278.565	35.0%	16,886,041	(\$0.00025)	(\$4,222)	28,299,035	38.9%	11,005,077	(\$0.00005)	(\$550)	27,626,162	41.1%	11,364,379	(\$0.00006)	(\$682)	\$7,230	(\$25,014)	(\$23,237)
Apr-21	Actual	35.804.861	46.1%	16,499,185	(\$0.00025)	(\$4,125)	23,419,096	46.9%	10,973,868	(\$0.00005)	(\$549)	24,806,383	47.2%	11.719.285	(\$0.00006)	(\$703)	\$5,454	(\$21,496)	(\$21,419)
May-21	Actual	34,712,627	49.8%	17,277,319	(\$0.00025)	(\$4,319)	24,121,700	49.8%	12,005,957	(\$0.00005)	(\$600)	25,750,269	49.8%	12,816,535	(\$0.00006)	(\$769)	\$5,377	(\$21,438)	(\$21,750)
Jun-21	Actual	44.328.648	57.4%	25,431,449	(\$0.00025)	(\$6,358)	27,905,191	51.7%	14,432,010	(\$0.00005)	(\$722)	28,940,957	43.0%	12,434,101	(\$0.00006)	(\$746)	\$5,689	(\$25,570)	(\$27,707)
Jul-21	Actual	51,668,575	40.8%	21,102,994	(\$0.00025)	(\$5,276)	30,054,555	41.9%	12,596,696	(\$0.00005)	(\$630)	30,282,704	44.0%	13,312,162	(\$0.00006)	(\$799)	\$7,826	(\$27,826)	(\$26,705)
001-21	notual	01,000,010	40.070	21,102,004	(\$0.00020)	100,270	00,004,000	41.576	12,000,000	(\$0.0000)	100001	00,202,704	44.070	10,012,102	(\$0.0000)	141 331	<u>ψ1,020</u>	<u>(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	1020,7007
Total Aug	-20 to Jul-21	532,065,278		251,768,785		(\$62,942)	316,229,632		150,588,568		(\$7,529)	323,122,043		156,852,551		(\$9,411)	\$77,247	(\$285,537)	(\$288,173)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed kWh - all															Reversal of prior month		
		classes except				Unbilled SCC	Total Billed				Unbilled SCC					Unbilled SCC	unbilled (prior		Total Revenue
		G2 demand	Unbilled	Unbilled kWh	Proposed	Revenue	kWh - G2	Unbilled	Unbilled kWh	Proposed		Total Billed kWh ·	Unbilled	Unbilled kWh	Proposed	Revenue (m *	month, e + j +	Total Billed	(e + j + o + p +
		and G1	Factor	(a * b)	SCC	(c * d)	demand	Factor	(f * q)	SCC	i)	G1	Factor	(k * l)	SCC	n)	0)	SCC Revenue	(0 · ) · 0 · p ·
						( · · · /			( 5)		,	-		. /		,	-1		U U
Aug-21	Actual	51,795,784	57.1%	29,589,813	(\$0.00025)	(\$7,397)	30,836,474	54.3%	16,750,908	(\$0.00005)	(\$838)	30,963,896	49.3%	15,255,088	(\$0.00006)	(\$915)	\$6,704	(\$13,505)	(\$15,951)
Sep-21	Actual	50,441,178	31.1%	15,704,125	(\$0.00002)	(\$314)	30,075,755	34.9%	10,495,963	(\$0.00002)	(\$210)	31,233,773	41.7%	13,023,341	(\$0.00002)	(\$260)	\$9,150	(\$2,230)	\$6,136
Oct-21	Actual	35,381,525	54.1%	19,130,358	(\$0.00002)	(\$383)	24,595,882	54.1%	13,298,693	(\$0.00002)	(\$266)	26,570,782	54.1%	14,366,497	(\$0.00002)	(\$287)	\$784	(\$1,720)	(\$1,872)
Nov-21	Actual	35,412,616	67.1%	23,758,256	(\$0.00002)	(\$475)	23,169,763	61.5%	14,245,808	(\$0.00002)	(\$285)	24,643,173	58.7%	14,460,958	(\$0.00002)	(\$289)	\$936	(\$1,656)	(\$1,769)
Dec-21	Actual	45,534,693	54.9%	24,987,664	(\$0.00002)	(\$500)	26,183,031	52.9%	13,859,815	(\$0.00002)	(\$277)	26,229,003	51.8%	13,578,251	(\$0.00002)	(\$272)	\$1,049	(\$1,950)	(\$1,949)
Jan-22	Actual	52,910,255	51.7%	27,363,740	(\$0.00002)	(\$547)	28,639,295	49.4%	14,142,788	(\$0.00002)	(\$283)	26,241,532	47.3%	12,407,324	(\$0.00002)	(\$248)	\$1,049	(\$2,088)	(\$2,117)
Feb-22	Actual	48,939,498	45.2%	22,109,161	(\$0.00002)	(\$442)	27,846,903	46.3%	12,888,155	(\$0.00002)	(\$258)	25,990,364	46.9%	12,201,007	(\$0.00002)	(\$244)	\$1,078	(\$2,006)	(\$1,872)
Mar-22	Actual	44,444,753	40.2%	17,870,538	(\$0.00002)	(\$357)	27,130,129	43.3%	11,740,380	(\$0.00002)	(\$235)	26,228,654	44.9%	11,785,488	(\$0.00002)	(\$236)	\$944	(\$1,916)	(\$1,800)
Apr-22	Actual	35,959,936	47.6%	17,102,420	(\$0.00002)	(\$342)	24,069,207	48.8%	11,742,180	(\$0.00002)	(\$235)	24,425,385	49.4%	12,058,838	(\$0.00002)	(\$241)	\$828	(\$1,582)	(\$1,572)
May-22	Estimate	35,022,615	49.8%	17,431,607	(\$0.00002)	(\$349)	24,361,879	49.8%	12,125,499	(\$0.00002)	(\$243)	25,732,657	49.8%	12,807,769	(\$0.00002)	(\$256)	\$818	(\$1,702)	(\$1,732)
Jun-22	Estimate	35,959,049	57.4%	20,629,791	(\$0.00002)	(\$413)	25,562,492	51.7%	13,220,413	(\$0.00002)	(\$264)	26,829,034	43.0%	11,526,741	(\$0.00002)	(\$231)	\$847	(\$1,767)	(\$1,827)
Jul-22	Estimate	46,626,506	40.8%	19,043,661	(\$0.00002)	<u>(\$381)</u>	29,312,231	41.9%	12,285,568	(\$0.00002)	<u>(\$246)</u>	29,503,974	44.0%	12,969,836	(\$0.00002)	(\$259)	<u>\$908</u>	(\$2,109)	(\$2,087)
Total Aug	g-21 to Jul-22	518,428,408		254,721,134		(\$11,900)	321,783,041		156,796,169		(\$3,638)	324,592,227		156,441,138		(\$3,739)	\$25,096	(\$34,231)	(\$28,413)

		(a) Total Billed kWh - all classes except	(b)	(c)	(d)	(e) Unbilled SCC	(f) Total Billed	(g)	(h)	(i)	(j) Unbilled SCC	(k)	(I)	(m)	(n)	(o) Unbilled SCC	(p) Reversal of prior month unbilled (prior	(q)	(r) Total Revenue
		G2 demand	Unbilled	Unbilled kWh	Proposed	Revenue	kWh - G2	Unbilled	Unbilled kWh	Proposed	Revenue (h *	Total Billed kWh ·	Unbilled	Unbilled kWh	Proposed	Revenue (m *	month, e + j +	Total Billed	(e + j + o + p +
		and G1	Factor	(a * b)	SCC	(c * d)	demand	Factor	(f * g)	SCC	i)	G1	Factor	(k * l)	SCC	n)	o)	SCC Revenue	q)
Aug-22	Estimate	53,875,701	57.1%	30,778,024	\$0.00002	\$616	31,646,205	54.3%	17,190,768	\$0.00002	\$344	31,159,188	49.3%	15,351,303	\$0.00002	\$307	\$886	\$562	\$2,714
Sep-22	Estimate	42,836,936	31.1%	13,336,655	\$0.00002	\$267	27,489,965	34.9%	9,593,563	\$0.00002	\$192	28,199,665	41.7%	11,758,229	\$0.00002	\$235	(\$1,266)	\$1,971	\$1,398
Oct-22	Estimate	35,427,354	54.1%	19,155,137	\$0.00002	\$383	24,373,188	54.1%	13,178,285	\$0.00002	\$264	25,899,858	54.1%	14,003,737	\$0.00002	\$280	(\$694)	\$1,714	\$1,947
Nov-22	Estimate	38,929,068	67.1%	26,117,437	\$0.00002	\$522	24,854,246	61.5%	15,281,504	\$0.00002	\$306	25,359,866	58.7%	14,881,523	\$0.00002	\$298	(\$927)	\$1,783	\$1,982
Dec-22	Estimate	43,660,123	54.9%	23,958,973	\$0.00002	\$479	25,919,207	52.9%	13,720,162	\$0.00002	\$274	25,143,738	51.8%	13,016,430	\$0.00002	\$260	(\$1,126)	\$1,894	\$1,783
Jan-23	Estimate	48,848,290	51.7%	25,263,003	\$0.00002	\$505	27,824,167	49.4%	13,740,257	\$0.00002	\$275	26,266,480	47.3%	12,419,120	\$0.00002	\$248	(\$1,014)	\$2,059	\$2,073
Feb-23	Estimate	48,705,129	45.2%	22,003,281	\$0.00002	\$440	27,438,693	46.3%	12,699,226	\$0.00002	\$254	25,631,602	46.9%	12,032,589	\$0.00002	\$241	(\$1,028)	\$2,036	\$1,942
Mar-23	Estimate	43,316,631	40.2%	17,416,938	\$0.00002	\$348	26,147,956	43.3%	11,315,352	\$0.00002	\$226	25,615,759	44.9%	11,510,092	\$0.00002	\$230	(\$935)	\$1,902	\$1,772
Apr-23	Estimate	38,098,213	47.6%	18,119,378	\$0.00002	\$362	24,354,676	48.8%	11,881,446	\$0.00002	\$238	24,416,400	49.4%	12,054,403	\$0.00002	\$241	(\$805)	\$1,737	\$1,774
May-23	Estimate	35,420,403	49.8%	17,629,596	\$0.00002	\$353	24,735,641	49.8%	12,311,530	\$0.00002	\$246	25,947,440	49.8%	12,914,672	\$0.00002	\$258	(\$841)	\$1,722	\$1,738
Jun-23	Estimate	36,042,227	57.4%	20,677,510	\$0.00002	\$414	25,200,979	51.7%	13,033,445	\$0.00002	\$261	26,422,232	43.0%	11,351,964	\$0.00002	\$227	(\$857)	\$1,753	\$1,797
Jul-23	Estimate	46,942,878	40.8%	19,172,877	\$0.00002	\$383	29,044,596	41.9%	12,173,394	\$0.00002	\$243	29,188,775	44.0%	12,831,275	\$0.00002	\$257	(\$901)	\$2,104	\$2,086
Total Au	g-22 to Jul-23	512,102,953		253,628,808		\$5,073	319,029,521		156,118,933		\$3,122	319,251,003		154,125,336		\$3,083	(\$9,508)	\$21,236	\$23,005

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## Unitil Energy Systems, Inc. Stranded Cost Charge Revenues

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)	(q)	(r)
		Total Billed kWh - all classes except G2 demand and G1	Unbilled Factor	Unbilled kWh (a * b)	SCC	Unbilled SCC Revenue (c * d)	Total Billed kWh - G2 demand	Unbilled Factor	Unbilled kWh (f * g)	SCC	Unbilled SCC Revenue (h * i)	Total Billed kWh - G1	Unbilled Factor	Unbilled kWh (k * l)	SCC	Unbilled SCC Revenue (m * n)	Reversal of prior month unbilled (prior month, e + j + o)	Total Billed SCC Revenue	Total Revenue (e + j + o + p + q)
		54 705 704	== +0/		(00.0005)	(07.007)		= 1 00/	10 750 000	(00.0005)	(\$22.2)		10.00/		(00.00000)	(0045)	<b>AA TA I</b>	(0.4.0, 5.0.5)	
Aug-21 Sep-21	Actual Actual	51,795,784 50,441,178	57.1% 31.1%	29,589,813 15,704,125	(\$0.00025) (\$0.00002)	(\$7,397) (\$314)	30,836,474 30,075,755	54.3% 34.9%	16,750,908 10,495,963	(\$0.00005) (\$0.00002)	(\$838) (\$210)	30,963,896 31,233,773	49.3% 41.7%	15,255,088 13,023,341	(\$0.00006) (\$0.00002)	(\$915) (\$260)	\$6,704	(\$13,505)	(\$15,951.06)
								54.9% 54.1%									\$9,150	(\$2,230)	\$6,136
Oct-21	Actual	35,381,525	54.1%	19,130,358	(\$0.00002)	(\$383)	24,595,882		13,298,693	(\$0.00002)	(\$266)	26,570,782	54.1%	14,366,497	(\$0.00002)	(\$287)	\$784	(\$1,720)	(\$1,872)
Nov-21	Actual	35,412,616	67.1%	23,758,256	(\$0.00002)	(\$475)	23,169,763	61.5%	14,245,808	(\$0.00002)	(\$285)	24,643,173	58.7%	14,460,958	(\$0.00002)	(\$289)	\$936	(\$1,656)	(\$1,769)
Dec-21	Actual	45,534,693	54.9%	24,987,664	(\$0.00002)	(\$500)	26,183,031	52.9%	13,859,815	(\$0.00002)	(\$277)	26,229,003	51.8%	13,578,251	(\$0.00002)	(\$272)	\$1,049	(\$1,950)	(\$1,949)
Jan-22	Actual	52,910,255	51.7%	27,363,740	(\$0.00002)	(\$547)	28,639,295	49.4%	14,142,788	(\$0.00002)	(\$283)	26,241,532	47.3%	12,407,324	(\$0.00002)	(\$248)	\$1,049	(\$2,088)	(\$2,117)
Feb-22	Actual	48,939,498	45.2%	22,109,161	(\$0.00002)	(\$442)	27,846,903	46.3%	12,888,155	(\$0.00002)	(\$258)	25,990,364	46.9%	12,201,007	(\$0.00002)	(\$244)	\$1,078	(\$2,006)	(\$1,872)
Mar-22	Actual	44,444,753	40.2%	17,870,538	(\$0.00002)	(\$357)	27,130,129	43.3%	11,740,380	(\$0.00002)	(\$235)	26,228,654	44.9%	11,785,488	(\$0.00002)	(\$236)	\$944	(\$1,916)	(\$1,800)
Apr-22	Actual	35,959,936	47.6%	17,102,420	(\$0.00002)	(\$342)	24,069,207	48.8%	11,742,180	(\$0.00002)	(\$235)	24,425,385	49.4%	12,058,838	(\$0.00002)	(\$241)	\$828	(\$1,582)	(\$1,572)
May-22	Actual	34,785,366	48.0%	16,712,839	(\$0.00002)	(\$334)	24,568,601	48.0%	11,804,132	(\$0.00002)	(\$236)	25,732,657	48.0%	12,363,410	(\$0.00002)	(\$247)	\$818	(\$1,589)	(\$1,588)
Jun-22	Actual	39,303,314	51.7%	20,317,378	(\$0.00002)	(\$406)	26,514,147	48.2%	12,778,985	(\$0.00002)	(\$256)	28,252,964	45.0%	12,707,425	(\$0.00002)	(\$254)	\$818	(\$1,775)	(\$1,873)
Jul-22	Actual	49,095,322	65.5%	32,162,475	(\$0.00002)	(\$643)	30,155,355	57.5%	17,333,872	(\$0.00002)	(\$347)	29,356,375	46.0%	13,494,001	(\$0.00002)	(\$270)	\$916	(\$2,167)	(\$2,510)
Total Aug	g-21 to Jul-22	524,004,240		266,808,766		(\$12,142)	323,784,542		161,081,679		(\$3,724)	325,868,558		157,701,628		(\$3,764)	\$25,075	(\$34,183)	(\$28,738)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed kWh - all classes except G2 demand and G1	Unbilled Factor	Unbilled kWh (a * b)	SCC	Unbilled SCC Revenue (c * d)	Total Billed kWh - G2 demand	Unbilled Factor	Unbilled kWh (f * g)	SCC	Unbilled SCC Revenue (h * i)	Total Billed kWh - G1	Unbilled Factor	Unbilled kWh (k * l)	SCC	Unbilled SCC Revenue (m * n)	Reversal of prior month unbilled (prior month, e + j + o)	Total Billed SCC Revenue	Total Revenue (e + j + o + p + q)
Aug-22	Actual	60,721,763	39.1%	23,734,528	\$0.00002	\$475	33,901,498	41.6%	14,100,511	\$0.00002	\$282	32,469,634	46.2%	14,993,269	\$0.00002	\$300	\$1,260	\$311	\$2,627
Sep-22	Actual	45,358,584	28.2%	12,784,957	\$0.00002	\$256	29.347.452	35.1%	10,312,537	\$0.00002	\$206	29,690,676	44.0%	13,051,909	\$0.00002	\$261	(\$1,057)	\$2,084	\$1,750
Oct-22	Actual	32,949,210	51.4%	16,946,000	\$0.00002	\$339	23,394,770	51.4%	12,035,460	\$0.00002	\$241	25,213,654	51.4%	12,971,186	\$0.00002	\$259	(\$723)	\$1,622	\$1,738
Nov-22	Actual	33,106,990	65.0%	21,505,569	\$0.00002	\$430	23,086,097	57.4%	13,244,267	\$0.00002	\$265	25,193,812	54.2%	13,645,204	\$0.00002	\$273	(\$839)	\$1,623	\$1,752
Dec-22	Actual		54.8%			\$430 \$456	23,086,097	57.4% 52.5%			\$265		54.2% 51.3%			\$255			
		41,599,675		22,781,345	\$0.00002		1 1		13,027,734	\$0.00002		24,876,662		12,766,202	\$0.00002		(\$968)	\$1,821	\$1,824
Jan-23	Actual	48,455,980	51.1%	24,748,000	\$0.00002	\$495	27,917,662	50.8%	14,193,397	\$0.00002	\$284	25,920,706	50.6%	13,123,069	\$0.00002	\$262	(\$972)	\$1,972	\$2,042
Feb-23	Actual	45,597,268	42.9%	19,542,866	\$0.00002	\$391	27,699,859	42.9%	11,886,726	\$0.00002	\$238	26,286,240	42.9%	11,289,876	\$0.00002	\$226	(\$1,041)	\$1,990	\$1,803
Mar-23	Actual	42,723,953	41.5%	17,730,023	\$0.00002	\$355	26,909,777	43.0%	11,560,030	\$0.00002	\$231	25,648,820	43.9%	11,271,454	\$0.00002	\$225	(\$854)	\$1,905	\$1,861
Apr-23	Actual	35,029,078	44.2%	15,484,024	\$0.00002	\$310	23,964,411	46.6%	11,171,808	\$0.00002	\$223	24,404,748	48.1%	11,729,221	\$0.00002	\$235	(\$811)	\$1,672	\$1,629
May-23	Estimate	35,420,403	48.0%	17,017,946	\$0.00002	\$340	24,735,641	48.0%	11,884,388	\$0.00002	\$238	25,947,440	48.0%	12,466,604	\$0.00002	\$249	(\$768)	\$1,722	\$1,782
Jun-23	Estimate	36,042,227	51.7%	18,631,598	\$0.00002	\$373	25,200,979	48.2%	12,146,079	\$0.00002	\$243	26,422,232	45.0%	11,884,011	\$0.00002	\$238	(\$827)	\$1,753	\$1,779
Jul-23	Estimate	46,942,878	65.5%	30,752,403	\$0.00002	\$615	29,044,596	57.5%	16,695,386	\$0.00002	\$334	29,188,775	46.0%	13,416,961	\$0.00002	\$268	(\$853)	\$2,104	\$2,468
00120	Lounde	40,042,010	00.070	00,102,400	φ0.00002	<u>0010</u>	20,044,000	01.070	10,000,000	ψ0.00002	<u>4004</u>	20,100,110	40.070	10,410,001	φ0.00002	<u> </u>	(0000)	<u> <u> </u></u>	<u>\$2,400</u>
Total Aug	g-22 to Jul-23	503,948,009		241,659,259		\$4,833	320,013,298		152,258,323		\$3,045	321,263,398		152,608,966		\$3,052	(\$8,453)	\$20,578	\$23,055

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)	(q)	(r)
		Total Billed kWh - all classes except G2 demand and G1	Unbilled Factor	Unbilled kWh (a * b)	Proposed SCC	Unbilled SCC Revenue (c * d)	Total Billed kWh - G2 demand	Unbilled Factor	Unbilled kWh (f * g)	Proposed SCC	Unbilled SCC Revenue (h * i)	Total Billed kWh - G1	Unbilled Factor	Unbilled kWh (k * l)	Proposed SCC	Unbilled SCC Revenue (m * n)	Reversal of prior month unbilled (prior month, e + j + o)	Total Billed SCC Revenue	Total Revenue (e + j + o + p + q)
Aug-23	Estimate	53,643,917	39.1%	20,967,986	(\$0.00010)	(\$2,097)	31,013,838	41.6%	12,899,458	(\$0.00010)	(\$1,290)	30,481,110	46.2%	14,075,043	(\$0.00010)	(\$1,408)	(\$1,217)	(\$4,210)	(\$10,222)
Sep-23	Estimate	41,195,436	28.2%	11,611,515	(\$0.00010)	(\$1,161)	25,984,506	35.1%	9,130,816	(\$0.00010)	(\$913)	26,619,997	44.0%	11,702,050	(\$0.00010)	(\$1,170)	\$4,794	(\$9,380)	(\$7,830)
Oct-23	Estimate	35,579,158	51.4%	18,298,600	(\$0.00010)	(\$1,830)	24,054,965	51.4%	12,375,097	(\$0.00010)	(\$1,238)	25,533,742	51.4%	13,135,856	(\$0.00010)	(\$1,314)	\$3,244	(\$8,517)	(\$9,653)
Nov-23	Estimate	36,312,582	65.0%	23,587,851	(\$0.00010)	(\$2,359)	22,745,972	57.4%	13,049,141	(\$0.00010)	(\$1,305)	23,157,869	54.2%	12,542,518	(\$0.00010)	(\$1,254)	\$4,381	(\$8,222)	(\$8,759)
Dec-23	Estimate	44,113,708	54.8%	24,158,112	(\$0.00010)	(\$2,416)	25,723,359	52.5%	13,507,037	(\$0.00010)	(\$1,351)	24,872,803	51.3%	12,764,221	(\$0.00010)	(\$1,276)	\$4,918	(\$9,471)	(\$9,596)
Jan-24	Estimate	47,654,200	51.1%	24,338,505	(\$0.00010)	(\$2,434)	26,652,512	50.8%	13,550,192	(\$0.00010)	(\$1,355)	25,058,909	50.6%	12,686,761	(\$0.00010)	(\$1,269)	\$5,043	(\$9,937)	(\$9,951)
Feb-24	Estimate	47,296,309	42.9%	20,271,070	(\$0.00010)	(\$2,027)	26,163,937	42.9%	11,227,622	(\$0.00010)	(\$1,123)	24,332,512	42.9%	10,450,755	(\$0.00010)	(\$1,045)	\$5,058	(\$9,779)	(\$8,917)
Mar-24	Estimate	42,193,870	41.5%	17,510,043	(\$0.00010)	(\$1,751)	25,009,182	43.0%	10,743,563	(\$0.00010)	(\$1,074)	24,413,771	43.9%	10,728,708	(\$0.00010)	(\$1,073)	\$4,195	(\$9,162)	(\$8,865)
Apr-24	Estimate	39,430,719	44.2%	17,429,696	(\$0.00010)	(\$1,743)	24,774,157	46.6%	11,549,298	(\$0.00010)	(\$1,155)	24,764,337	48.1%	11,902,044	(\$0.00010)	(\$1,190)	\$3,898	(\$8,897)	(\$9,087)
May-24	Estimate	34,784,458	48.0%	16,712,402	(\$0.00010)	(\$1,671)	23,863,977	48.0%	11,465,591	(\$0.00010)	(\$1,147)	24,989,573	48.0%	12,006,391	(\$0.00010)	(\$1,201)	\$4,088	(\$8,364)	(\$8,294)
Jun-24	Estimate	35,688,019	51.7%	18,448,494	(\$0.00010)	(\$1,845)	24,527,714	48.2%	11,821,587	(\$0.00010)	(\$1,182)	25,684,059	45.0%	11,552,001	(\$0.00010)	(\$1,155)	\$4,018	(\$8,590)	(\$8,754)
Jul-24	Estimate	46,502,180	65.5%	30,463,701	(\$0.00010)	<u>(\$3,046)</u>	28,300,893	57.5%	16,267,892	(\$0.00010)	<u>(\$1,627)</u>	28,390,469	46.0%	13,050,011	(\$0.00010)	<u>(\$1,305)</u>	<u>\$4,182</u>	<u>(\$10,319)</u>	<u>(\$12,115)</u>
Total Aug	1-23 to Jul-24	504,394,556		243,797,977		(\$24,380)	308,815,011		147,587,294		(\$14,759)	308,299,152		146,596,358		(\$14,660)	\$46,603	(\$104,847)	(\$112,043)