

THE STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION
DE 24-_____
UNITIL ENERGY SYSTEMS, INC.

PETITION TO INCREASE STORM RECOVERY ADJUSTMENT FACTOR

Unitil Energy Systems, Inc. (“UES” or “the Company”) respectfully petitions the New Hampshire Public Utilities Commission (“the Commission”) to: (1) approve the Company’s proposal to transfer the entire December 31, 2023 Major Storm Cost Reserve’s (“MSCR”) deferral balance of \$3,654,362 into the Storm Recovery Adjustment Factor (“SRAF”); (2) approve the Company’s proposal to increase the SRAF effective May 1, 2024 to recover the MSCR unrecovered balance of \$3,654,362, plus carrying charges, over a five-year period; (3) find that the resulting rates are just and reasonable as required by RSA 378:5 and 378:7; and (4) approve the proposed tariff changes necessary to implement recovery of the \$3,654,362 deferral balance through the SRAF.

In support of this Petition, UES’s filing includes Exhibits CGDN-1 through CGDN-4: The Joint Direct Testimony and Exhibits of Christopher J. Goulding and Daniel T. Nawazelski. The testimony and exhibits of Messrs. Goulding and Nawazelski support the Company’s request for the proposed changes to the SRAF and the MSCR, provide the associated bill impacts, and present the proposed tariff changes. The Company also is filing its MSCR Report, as required by Order No. 25,351, concurrently with this Petition. The MSCR Report provides detailed information for storm events for the 12-month period ending December 31, 2023 and the corresponding expenditures.

In support of its Petition, UES states as follows:

1. The Company maintains its MSCR pursuant to the Settlement Agreement approved by the Commission in Docket No. DE 10-055. *Unitil Energy Systems, Inc.*, Order No. 25,214 (April 26, 2011) at 29-30. When a qualifying major storm or qualifying pre-staging event occurs, costs related to storm response are charged to the MSCR. All charges to the MSCR are audited by the Audit Division of the Department of Energy and reviewed by the Commission. The Commission has authorized UES to recover \$800,000 on an annual basis through the MSCR fund. *Unitil Energy Systems, Inc.*, Order No. 25,502 (April 29, 2013) at 7.

2. The Company also has a Commission-approved SRAF in place, which provides a mechanism to recover costs associated with infrequent storms of extraordinary magnitude. The SRAF surcharge is currently set at \$0.00000 per kWh.

3. The Company has incurred significant costs in excess of the \$800,000 annual MSCR funding cap to respond to and recover from storm events. As of December 31, 2023, the MSCR fund has an unrecovered balance (deficit) of \$3,654,362.

4. The \$3,654,362 MSCR deficit is 4.6 times the annual recovery cap of \$800,000. Therefore, it would take 4.6 years without any qualifying storm events for the Company to recover that deferral balance. Based on the Company's experience since 2010, it is highly unlikely that there will not be any significant storm activity over the next 4.6 years.

5. The MSCR deficit represents 3.9 percent of the Company's long-term debt capitalization as of December 2023, which is a significant and on-going financing requirement. From a customer perspective, rolling the deficit forward is not in the public interest because customers continue to pay carrying charges on the unrecovered balance and this "[is] not an efficient use of ratepayer funds." *Unitil Energy Systems, Inc.*, Order No. 26,889 (Sept. 27, 2023)

at 4. It is, therefore, reasonable and in the public interest to address the MSCR deficit in this proceeding.

6. The Company proposes to reduce the MSCR deficit by transferring the entire December 31, 2023 deferral balance of \$3,654,362 into the SRAF mechanism, effective May 1, 2024. The Company proposes to recover the \$3,654,362 deferral balance, through the SRAF over a five-year period with carrying charges.¹

7. UES's proposal is consistent with the Commission's direction in DE 23-017, "encourag[ing] the company to find additional ways to reduce the deficit in the MSCR fund." *Unitil Energy Systems, Inc.*, Order No. 26,889 (Sept. 27, 2023) at 4.

8. The proposed adjustment to recover the MSCR deferral balance is \$0.00071 per kWh and, if approved, a typical 600 kWh residential customer on Default Service would see a bill increase of 43 cents versus current rates.

WHEREFORE, UES respectfully requests that the Commission:

A. Approve the Company's proposal to transfer the entire December 31, 2023 MSCR deferral balance of \$3,654,362 into the SRAF;

B. Approve the Company's proposal to increase its SRAF effective May 1, 2024 to recover the MSCR unrecovered balance of \$3,654,362, plus carrying charges, over a five-year period;

C. Find that the resulting rates are just and reasonable as required by RSA 378:5 and 378:7; and

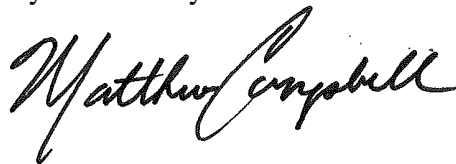
D. Approve the proposed tariff changes necessary to implement recovery of the \$3,654,362 deferral balance through the SRAF.

¹ The carrying charge will equal the Company's cost of debt, as approved in its most recent base rate case or as otherwise approved by the Commission, net of deferred taxes.

Respectfully submitted,

UNITIL ENERGY SYSTEMS, INC.

By its Attorney:



Matthew C. Campbell
Senior Counsel
Unitil Service Corp.
6 Liberty Lane West
Hampton, NH 03842-1720

Dated: February 28, 2024

Certificate of Service

I hereby certify that on this 28th day of February, 2024, a copy of the foregoing Petition was electronically delivered to the New Hampshire Department of Energy and Office of the Consumer Advocate.



Matthew C. Campbell

SUMMARY OF DELIVERY SERVICE RATES

Each bill rendered for electric delivery service shall be calculated through the application of the effective rates as listed below.

Class		Distribution Charge*	Non-Transmission External Delivery Charge**	Transmission External Delivery Charge**	Total External Delivery Charge**	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge**** (1)	Revenue Decoupling Adjustment Factor**	Total Delivery Charges
D	Customer Charge	\$16.22								\$16.22
	All kWh	\$0.04612	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00071	\$0.00727	\$0.00186	\$0.10072
G2	Customer Charge	\$29.19								\$29.19
	All kW	\$12.13				\$0.00				\$12.13
	All kWh	\$0.00000	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00071	\$0.00727	(\$0.00002)	\$0.05272
G2 - kWh meter	Customer Charge	\$18.38								\$18.38
	All kWh	\$0.03270	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00071	\$0.00727	(\$0.00002)	\$0.08542
G2 - Quick Recovery Water Heat and/or Space Heat	Customer Charge	\$9.73								\$9.73
	All kWh	\$0.03669	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00071	\$0.00727	(\$0.00002)	\$0.08941
G1	Customer Charge	\$162.18	Secondary Voltage							\$162.18
	Customer Charge	\$86.49	Primary Voltage							\$86.49
	All kVA	\$8.53				\$0.00				\$8.53
	All kWh	\$0.00000	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00071	\$0.00727	\$0.00014	\$0.05288
ALL GENERAL	Transformer Ownership Credit (kW/kVa)									(\$0.50)
	Voltage Discount at 4,160 Volts or Over (all kW/kVA and kWh)									2.00%
	Voltage Discount at 34,500 Volts or Over (all kW/kVA and kWh)									3.50%

(1) Includes low-income portion of \$0.00150 per kWh, energy efficiency portion of \$0.00577 per kWh and lost base revenue portion of \$0.00000 per kWh.

* Authorized by NHPUC Order No. 26,837 in Case No. DE 23-014, dated May 31, 2023
 ** Authorized by NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023
 *** Authorized by NHPUC Order No. in Case No. DE , dated
 **** Authorized by NHPUC Order No. 26,911 in Case No. DE 23-098, dated December 11, 2023

Issued: February 28, 2024
Effective: May 1, 2024

Issued By: Daniel Hurstak
Vice President and Treasurer

SUMMARY OF DELIVERY SERVICE RATES (continued)

Class	Distribution Charge*	Non-Transmission	Transmission	External Delivery Charge**	External Delivery Charge**	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge****	Total Delivery Charges
		External Delivery Charge**	External Delivery Charge**						
OL									
All kWh	\$0.00000	\$0.01396	\$0.03090	\$0.04486		(\$0.00010)	\$0.00071	\$0.00727	\$0.05274

Luminaire Charges

Category	Lamp Size	Lumens (Approx.)	All-Night Service	Midnight Service	Description	Price Per Luminaire	
	Nominal Watts		Monthly kWh	Monthly kWh		Per Mo.	Per Year
Company	100	3,500	43	20	Mercury Vapor Street	\$13.73	\$164.76
Company	175	7,000	71	33	Mercury Vapor Street	\$15.73	\$188.76
Company	250	11,000	100	46	Mercury Vapor Street	\$17.25	\$207.00
Company	400	20,000	157	73	Mercury Vapor Street	\$17.25	\$207.00
Company	1,000	60,000	372	173	Mercury Vapor Street	\$24.78	\$297.36
Company	250	11,000	100	46	Mercury Vapor Flood	\$18.25	\$219.00
Company	400	20,000	157	73	Mercury Vapor Flood	\$21.57	\$258.84
Company	1,000	60,000	380	176	Mercury Vapor Flood	\$25.29	\$303.48
Company	100	3,500	48	22	Mercury Vapor Power Bracket	\$13.44	\$161.28
Company	175	7,000	71	33	Mercury Vapor Power Bracket	\$14.65	\$175.80
Company	50	4,000	23	11	Sodium Vapor Street	\$13.73	\$164.76
Company	100	9,500	48	22	Sodium Vapor Street	\$15.73	\$188.76
Company	150	16,000	65	30	Sodium Vapor Street	\$17.25	\$207.00
Company	250	30,000	102	47	Sodium Vapor Street	\$19.53	\$234.36
Company	400	50,000	161	75	Sodium Vapor Street	\$24.78	\$297.36
Company	1,000	140,000	380	176	Sodium Vapor Street	\$42.51	\$510.12
Company	150	16,000	65	30	Sodium Vapor Flood	\$18.25	\$219.00
Company	250	30,000	102	47	Sodium Vapor Flood	\$21.57	\$258.84
Company	400	50,000	161	75	Sodium Vapor Flood	\$25.29	\$303.48
Company	1,000	140,000	380	176	Sodium Vapor Flood	\$42.89	\$514.68
Company	50	4,000	23	11	Sodium Vapor Power Bracket	\$13.44	\$161.28
Company	100	9,500	48	22	Sodium Vapor Power Bracket	\$14.65	\$175.80
Company	175	8,800	74	34	Metal Halide Street	\$17.25	\$207.00
Company	1,000	86,000	374	174	Metal Halide Flood	\$25.29	\$303.48
Company	35	3,000	12	6	LED Area Light Fixture	\$13.44	\$161.28
Company	47	4,000	16	7	LED Area Light Fixture	\$14.65	\$175.80
Company	30	3,300	10	5	LED Street Light Fixture	\$13.73	\$164.76
Company	50	5,000	17	8	LED Street Light Fixture	\$15.73	\$188.76
Company	100	11,000	35	16	LED Street Light Fixture	\$17.25	\$207.00
Company	120	18,000	42	19	LED Street Light Fixture	\$19.53	\$234.36
Company	140	18,000	48	22	LED Street Light Fixture	\$24.78	\$297.36
Company	260	31,000	90	42	LED Street Light Fixture	\$42.51	\$510.12
Company	70	10,000	24	11	LED Flood Light Fixture	\$18.25	\$219.00
Company	90	10,000	31	14	LED Flood Light Fixture	\$21.57	\$258.84
Company	110	15,000	38	18	LED Flood Light Fixture	\$25.29	\$303.48
Company	370	46,000	128	59	LED Flood Light Fixture	\$42.89	\$514.68
Customer Paid	35	3,000	12	6	LED Area Light Fixture	\$7.00	\$84.00
Customer Paid	47	4,000	16	7	LED Area Light Fixture	\$8.21	\$98.52
Customer Paid	30	3,300	10	5	LED Street Light Fixture	\$9.71	\$116.52
Customer Paid	50	5,000	17	8	LED Street Light Fixture	\$11.92	\$143.04
Customer Paid	100	11,000	35	16	LED Street Light Fixture	\$12.48	\$149.76
Customer Paid	120	18,000	42	19	LED Street Light Fixture	\$14.76	\$177.12
Customer Paid	140	18,000	48	22	LED Street Light Fixture	\$17.83	\$213.96
Customer Paid	260	31,000	90	42	LED Street Light Fixture	\$33.56	\$402.72
Customer Paid	70	10,000	24	11	LED Flood Light Fixture	\$11.24	\$134.88
Customer Paid	90	10,000	31	14	LED Flood Light Fixture	\$14.56	\$174.72
Customer Paid	110	15,000	38	18	LED Flood Light Fixture	\$17.36	\$208.32
Customer Paid	370	46,000	128	59	LED Flood Light Fixture	\$27.00	\$324.00

(1) Includes low-income portion of \$0.00150 per kWh, energy efficiency portion of \$0.00577 per kWh and lost base revenue portion of \$0.00000 per kWh.

* Authorized by NHPUC Order No. 26,623 in Case No. DE 21-030, dated May 3, 2022
 ** Authorized by NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023
 *** Authorized by NHPUC Order No. in Case No. DE , dated
 **** Authorized by NHPUC Order No. 26,911 in Case No. DE 23-098, dated December 11, 2023

SUMMARY OF WHOLE HOUSE RESIDENTIAL TIME OF USE RATES AND ELECTRIC VEHICLE RATES

(DELIVERY AND SUPPLY)

Each bill rendered for electric delivery service and supply service (as applicable) shall be calculated through the application of the effective rates as listed below.

Class		DELIVERY RATES							SUPPLY RATES			Total Delivery and Supply			
		Distribution Charge*	Non-Transmission External Delivery Charge**	Transmission External Delivery Charge**	Total External Delivery Charge**	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge****	Revenue Decoupling Adjustment Factor**	Total Delivery Charges	Renewable Portfolio Standard Charge*****		Power Supply Charge*****	Total Default Service Charge*****	
TOU-D	Customer Charge	\$16.22												\$16.22	\$16.22
	Off-Peak kWh	\$0.03966	\$0.01396	(\$0.00175)	\$0.01221	(\$0.00010)	\$0.00071	\$0.00727	\$0.00186	\$0.06161	\$0.00577	\$0.06152	\$0.06729	\$0.12890	\$0.12890
	Mid-Peak kWh	\$0.05438	\$0.01396	\$0.00037	\$0.01433	(\$0.00010)	\$0.00071	\$0.00727	\$0.00186	\$0.07845	\$0.00577	\$0.06279	\$0.06856	\$0.14701	\$0.14701
	On-Peak kWh	\$0.04691	\$0.01396	\$0.16980	\$0.18376	(\$0.00010)	\$0.00071	\$0.00727	\$0.00186	\$0.24041	\$0.00577	\$0.07672	\$0.08249	\$0.32290	\$0.32290
TOU-EV-D	Customer Charge	\$5.26								\$5.26				\$5.26	\$5.26
	Off-Peak kWh	\$0.03966	\$0.01396	(\$0.00175)	\$0.01221	(\$0.00010)	\$0.00071	\$0.00727		\$0.05975	\$0.00577	\$0.06152	\$0.06729	\$0.12704	\$0.12704
	Mid-Peak kWh	\$0.05438	\$0.01396	\$0.00037	\$0.01433	(\$0.00010)	\$0.00071	\$0.00727		\$0.07659	\$0.00577	\$0.06279	\$0.06856	\$0.14515	\$0.14515
	On-Peak kWh	\$0.04691	\$0.01396	\$0.16980	\$0.18376	(\$0.00010)	\$0.00071	\$0.00727		\$0.23855	\$0.00577	\$0.07672	\$0.08249	\$0.32104	\$0.32104
TOU-EV-G2	Customer Charge	\$29.19								\$29.19				\$29.19	\$29.19
	All kW	\$6.07				\$0.00				\$6.07				\$6.07	\$6.07
	Off-Peak kWh	\$0.02193	\$0.01396	(\$0.00161)	\$0.01235	(\$0.00010)	\$0.00071	\$0.00727		\$0.04216	\$0.00577	\$0.05658	\$0.06235	\$0.10451	\$0.10451
	Mid-Peak kWh	\$0.02149	\$0.01396	(\$0.00054)	\$0.01342	(\$0.00010)	\$0.00071	\$0.00727		\$0.04279	\$0.00577	\$0.05924	\$0.06501	\$0.10780	\$0.10780
	On-Peak kWh	\$0.02718	\$0.01396	\$0.19260	\$0.20656	(\$0.00010)	\$0.00071	\$0.00727		\$0.24162	\$0.00577	\$0.07299	\$0.07876	\$0.32038	\$0.32038
TOU-EV-G1	Customer Charge	\$162.18	Secondary Voltage							\$162.18				\$162.18	\$162.18
	Customer Charge	\$86.49	Primary Voltage							\$86.49				\$86.49	\$86.49
	All kVA	\$4.27				\$0.00				\$4.27				\$4.27	\$4.27
	Off-Peak kWh	\$0.01220	\$0.01396	(\$0.00163)	\$0.01233	(\$0.00010)	\$0.00071	\$0.00727		\$0.03241	\$0.00700	MARKET	MARKET	MARKET	MARKET
	Mid-Peak kWh	\$0.01285	\$0.01396	(\$0.00036)	\$0.01360	(\$0.00010)	\$0.00071	\$0.00727		\$0.03433	\$0.00700	MARKET	MARKET	MARKET	MARKET
	On-Peak kWh	\$0.01571	\$0.01396	\$0.19719	\$0.21115	(\$0.00010)	\$0.00071	\$0.00727		\$0.23474	\$0.00700	MARKET	MARKET	MARKET	MARKET
ALL GENERAL	Transformer Ownership Credit (kW/kVA)														(\$0.50)
	Voltage Discount at 4,160 Volts or Over (all kW/kVA and kWh)														2.00%
	Voltage Discount at 34,500 Volts or Over (all kW/kVA and kWh)														3.50%

DEFINITIONS
 Off-Peak kWh: Monday - Friday 8 P.M. - 6 A.M. and All Day Weekends and Weekday Holidays ¹
 Mid-Peak kWh: Monday - Friday 6 A.M. - 3 P.M., excluding Weekday Holidays ¹
 On-Peak kWh: Monday - Friday 3 P.M. - 8 P.M., excluding Weekday Holidays ¹

¹ Holidays observed by the State of New Hampshire pursuant to NH RSA 288:1.

* Authorized by NHPUC Order No. 26,837 in Case No. DE 23-014, dated May 31, 2023 and NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023

** Authorized by NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023

*** Authorized by NHPUC Order No. in Case No. DE , dated

**** Authorized by NHPUC Order No. 26,911 in Case No. DE 23-098, dated December 11, 2023

***** Authorized by NHPUC Order No. 26,910 in Case No. DE 23-054, dated December 8, 2023 and NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023

**SUMMARY OF LOW-INCOME
ELECTRIC ASSISTANCE PROGRAM DISCOUNTS**

Low-Income Electric Assistance Program (LI-EAP) Discounts for Eligible Customers

Tier	Percentage of NH State Median Income & Federal Poverty Guidelines	Discount (5)	Blocks	LI-EAP discount Delivery Only *; Excludes Supply	LI-EAP discount Fixed Default Service ** Supply Only	LI-EAP discount Variable Default Service ** Supply Only			
				effective May 1, 2024 (1)	May 2024-July 2024 (2)	May-24 (3)	Jun-24 (3)	Jul-24 (3)	
1 (4)	N/A	N/A							
2	151 (FPG) - 60 (SMI)	5%	Customer Charge	(\$0.81)					
			First 750 kWh	(\$0.00504)	(\$0.00536)	(\$0.00415)	(\$0.00428)	(\$0.00535)	
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
3	126 (FPG) - 150 (FPG)	19%	Customer Charge	(\$3.08)					
			First 750 kWh	(\$0.01914)	(\$0.02036)	(\$0.01578)	(\$0.01625)	(\$0.02031)	
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
4	101 (FPG) - 125 (FPG)	36%	Customer Charge	(\$5.84)					
			First 750 kWh	(\$0.03626)	(\$0.03858)	(\$0.02989)	(\$0.03079)	(\$0.03849)	
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
5	76 (FPG) - 100 (FPG)	54%	Customer Charge	(\$8.76)					
			First 750 kWh	(\$0.05439)	(\$0.05788)	(\$0.04484)	(\$0.04619)	(\$0.05773)	
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
6	0 - 75 (FPG)	86%	Customer Charge	(\$13.95)					
			First 750 kWh	(\$0.08662)	(\$0.09217)	(\$0.07141)	(\$0.07356)	(\$0.09194)	
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	

(1) Discount calculated using total utility charges from Page 4 multiplied by the appropriate discount. These figures exclude default service and are applicable to customers choosing a Competitive Supplier or self-supply. Customers taking default service from the Company would receive these discounts plus the appropriate discount applicable to default service supply. Competitively supplied customers billed on a consolidated basis would receive these discounts plus the appropriate fixed default service supply discount.

(2) Discount calculated using Non-G1 class (Residential) Fixed Default Service Rate multiplied by the appropriate discount. These figures exclude delivery.

(3) Discount calculated using Non-G1 class (Residential) Variable Default Service Rate, for the applicable month, multiplied by the appropriate discount. These figures exclude delivery.

(4) Tier 1 was eliminated by Order No. 25,200 in DE 10-192 dated March 4, 2011.

(5) Discounts effective October 1, 2023 in accordance with Order No. 26-870 in DE 22-043.

* Authorized by NHPUC Order No. _____ in Case No. DE _____, dated _____

** Authorized by NHPUC Order No. 26,910 in Case No. DE 23-054, dated December 8, 2023 and NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023

NHPUC No. 3 - Electricity Delivery
Unitil Energy Systems, Inc.

Tenth Revised Page 69
Superseding Ninth Revised Page 69

STORM RECOVERY ADJUSTMENT FACTOR
SCHEDULE SRAF

The Storm Recovery Adjustment Factor (“SRAF”) shall be billed by the Company to all customers taking Delivery Service from the Company. The purpose of the SRAF is to recover the costs of certain storms as approved by the Commission.

The Company established its initial SRAF as part of its base rate case, DE 10-055 effective May 1, 2011 and since that time has received approval to make adjustments to the SRAF in order to recover the costs associated with other major storms.

Effective May 1, 2024, the total SRAF is \$0.00071 per kWh.

The SRAF was adjusted May 1, 2024 to recover the December 31, 2023 Major Storm Cost Reserve (“MSCR”) deferral balance of \$3,654,362. The adjustment was calculated using a total cost of \$4,024,800, the December 31, 2023 MSCR deferral balance, inclusive of carrying charges. The total cost is being recovered on a levelized basis of \$804,960 over a period of five years. Any unamortized balance will accrue carrying charges at an annual rate equaling the Company’s cost of debt, as approved in its most recent base rate case or as otherwise approved by the Commission, net of deferred taxes. Based on actual unit sales for twelve months ending December 2023, the adjustment was set at \$0.00071 per kWh and will remain in place until these storm costs have been fully recovered.

Authorized by NHPUC Order No. _____ in Case No. DE _____, dated _____

Issued: February 28, 2024
Effective: May 1, 2024

Issued by: Robert B. Hevert
Sr. Vice President
000009

UNITIL ENERGY SYSTEMS, INC.

DIRECT TESTIMONY
OF
CHRISTOPHER J. GOULDING
AND
DANIEL T. NAWAZELSKI

EXHIBIT CGDN-1

New Hampshire Public Utilities Commission

Docket No. DE 24-__

February 28, 2024

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SCHEDULES

Schedule CGDN-1

MSCR Collection Balance 2013-2023

Schedule CGDN-2

Proposed SRAF Calculation

Schedule CGDN-3

Redline Tariffs

Schedule CGDN-4

Bill Impacts

1 **I. INTRODUCTION**

2 **Q. Please state your name and business address.**

3 A. My name is Christopher J. Goulding, and my business address is 6 Liberty Lane
4 West, Hampton, New Hampshire 03842.

5 My name is Daniel T. Nawazelski, and my business address is the same as Mr.
6 Goulding's.

7 **Q. Mr. Goulding, what is your position and what are your responsibilities?**

8 A. I am the Vice President of Finance and Regulatory for Unitil Service Corp.
9 ("Unitil Service"), a subsidiary of Unitil Corporation that provides managerial,
10 financial, regulatory and engineering services to Unitil Corporation's utility
11 subsidiaries including Unitil Energy Systems, Inc. ("UES" or the "Company").
12 My responsibilities include all rate and regulatory filings, financial planning and
13 analyses, treasury operations, budget, and insurance and loss control programs

14 **Q. Please describe your business and educational background.**

15 A. In 2000, I was hired by NSTAR Electric & Gas Company ("NSTAR," now
16 Eversource Energy) and held various positions with increasing responsibilities in
17 Accounting, Corporate Finance and Regulatory. I was hired by Unitil Service in
18 early 2019 as Director of Rates and Revenue Requirements. In 2023, I was
19 promoted to my current position. I earned a Bachelor of Science degree in
20 Business Administration from Northeastern University in 2000 and a Master's in
21 Business Administration from Boston College in 2009.

1 **Q. Have you previously testified before this Commission or other regulatory**
2 **agencies?**

3 A. Yes, I have testified before the New Hampshire Public Utilities Commission (the
4 “Commission”) on various financial, ratemaking and utility regulation matters,
5 including utility cost of service and revenue requirements analysis. I also have
6 testified before the Maine Public Utilities Commission and Massachusetts
7 Department of Public Utilities on similar matters on several occasions.

8 **Q. Mr. Nawazelski, what is your position and what are your responsibilities?**

9 A. I am the Manager of Revenue Requirement for Unitil Service. In this capacity I
10 perform complex financial planning, forecasting and analyses for financial
11 matters and in support of regulatory proceedings.

12 **Q. Please describe your business and educational background.**

13 A. I began working for Unitil Service in June of 2012 as an Associate Financial
14 Analyst and have held various positions with increasing responsibilities leading to
15 my current role of Manager of Revenue Requirements. I earned a Bachelor of
16 Science degree in Business with a concentration in Finance and Operations
17 Management from the University of Massachusetts, Amherst in May of 2012. I
18 am also currently pursuing my Masters in Business Administration at the
19 University of New Hampshire.

1 **Q. Have you previously testified before this Commission or other regulatory**
2 **agencies?**

3 A. Yes, I have testified before the Commission on various financial, ratemaking and
4 utility regulation matters. I have also testified before the Maine Public Utilities
5 Commission and Massachusetts Department of Public Utilities on similar matters
6 on several occasions.

7 **II. SUMMARY OF TESTIMONY**

8 **Q. What is the purpose of your testimony?**

9 A. The purpose of our testimony is to present and support the Company's request for
10 proposed changes to the Storm Recovery Adjustment Factor ("SRAF") and the
11 Major Storm Cost Reserve ("MSCR"). We provide calculations pertaining to the
12 proposed SRAF for effect May 1, 2024 and the associated bill impacts. We also
13 support the Company's proposed tariff changes associated with this filing.

14 **Q. Are you proposing any changes to the SRAF and MSCR?**

15 A. Yes. The Company is proposing that the December 31, 2023 MSCR under
16 recovered balance of \$3,654,362 plus associated carrying charges be removed
17 from the MSCR and transferred to the SRAF for recovery effective May 1, 2024.

1 **III. STORM RECOVERY ADJUSTMENT FACTOR AND MAJOR STORM**
2 **COST RESERVE**

3 **Q. Please provide a brief explanation of the MSCR.**

4 A. The MSCR was approved by the Commission as part of the Settlement
5 Agreement in the Company's 2010 rate case, Docket No. DE 10-155. The MSCR
6 fund recovers approved costs for restoring power and repairing damage following
7 major storms which meet certain criteria. The MSCR Fund also allows the
8 Company to petition the Commission to recover costs associated with preparing
9 for storms forecasted to be major storms, but which do not materialize as
10 originally forecasted. The current reserve amount of \$800,000 annually recovered
11 in base distribution rates was set at a level to deal with more frequent storms that
12 are generally not considered to be extraordinary in magnitude. This level of
13 recovery was approved in Docket DE 13-065 in Order No. 25,502, issued on
14 April 29, 2013.

15 **Q. What is the balance of the MSCR reserve fund at December 31, 2023?**

16 A. The deferral balance was \$3,654,362 as of December 31, 2023.

17 **Q. How did the MSCR fund become significantly under-collected?**

18 A. The MSCR fund has ended each year in an under-collected position since its
19 inception in 2010. MSCR eligible storm costs have exceeded collections in seven
20 out of the past nine years. This trend of costs surpassing collections has steadily

1 increased the deferral. Schedule CGDN-1 illustrates this trend, and shows how the
2 MSCR fund ended 2023 in a \$3,654,362 under-collected position.

3 **Q. Why is the Company proposing to transfer and recover the MSCR deferral**
4 **through the MSCR?**

5 A. As noted above, the 2023 ending balance in the MSCR was \$3,654,362. That
6 balance, for illustrative purposes, is 4.6 times the annual recovery amount of
7 \$800,000. Therefore, it would take 4.6 years without a new storm for the
8 Company to recover the deferral balance. Based on the Company's historical
9 storm experience since 2010, it is unlikely that there will not be any significant
10 storm activity over the next 4.6 years. Furthermore, the deferral balance reflects
11 3.9 percent of the Company's long-term debt capitalization as of December 2023,
12 which presents a large on-going financing requirement for the Company, and
13 which may negatively impact the Company's credit statistics and potentially
14 increase the cost of borrowing. Also, continuing to carry a deferral of this
15 magnitude is not in the best interest of customers. As shown in Schedule CGDN-
16 2, Page 2, the Company's proposal results in interest savings of \$423,428
17 assuming the balance continues to accrue interest without any offsetting recovery.

18 **Q. Has the Commission commented on the MSCR deferral position?**

19 A. Yes, in the Company's 2022 MSCR Annual Report Order the Commission stated,
20 "We encourage the company to find additional ways to reduce the deficit in the
21 MSCR fund. Substantial carrying costs do not support additional major storm cost

1 recovery and are not an efficient use of ratepayer funds.” *Unitil Energy Systems,*
2 *Inc.*, DE 23-017, ORDER NO. 26,889 (September 27, 2023) at 4.

3 **Q. Does the Company’s proposal address the Commission’s comments?**

4 A. Yes, the beginning 2024 MSCR balance would be reduced to \$0 by transferring
5 the entire December 31, 2023 deferral balance of \$3,654,362 into the SRAF
6 mechanism. The balance is reduced to \$0 in the SRAF over a five-year period as
7 shown in Schedule CGDN-2, page 2.

8 **Q. Is the Company asking the Commission to approve the final balance of the**
9 **MSCR as of December 31, 2023?**

10 A. No. The Company expects that the Audit Division staff of the Department of
11 Energy will audit the costs of the deferral balance. However, consistent with past
12 practice, the Commission has the authority to allow for a change in rates on a
13 reconcilable basis until its review is complete and a final determination is made
14 regarding the recoverability of all of the costs submitted by the Company.
15 Following this practice in this case will mitigate the accrual of interest on the
16 deficit balance to be recovered and reduce the time period over which the costs
17 are recovered.

1 **Q. What is the Company's specific cost recovery proposal?**

2 A. The Company proposes to remove the December 31, 2023 MSCR deferral
3 balance and seeks recovery of costs through an adjustment to its SRAF effective
4 May 1, 2024. The Company proposes to recover these costs over a five-year
5 period with carrying charges calculated at 4.01 percent, the annual rate equaling
6 the Company's currently approved cost of debt, net of deferred taxes in DE 21-
7 030.

8 **Q. Why does the Company propose to recover these costs over five years?**

9 A. This proposal balances the Company's interest in recovering the deferred balance
10 within a reasonable timeframe with mitigating bill impacts for customers.

11 **Q. What is the proposed adjustment to the SRAF?**

12 A. As shown on Schedule CGDN-2, Page 1 of 2, the proposed rate adjustment
13 related to December 31, 2023 deferral balance is \$0.00071 per kWh effective May
14 1, 2024.

15 **Q. Is the Company currently recovering other storm costs through the SRAF?**

16 A. No. Beginning May 1, 2022, revenue included in the SRAF decreased by
17 \$0.00047 per kWh due to the completion of the recovery of the costs of
18 extraordinary storm Winter Storm Quinn, which occurred in March 2018. In
19 accordance with Schedule SRAF, the costs associated with this extraordinary
20 storm were to be recovered at a rate of \$0.00047 per kWh over 3 years ending
21 April 30, 2022. As part of its Annual Reconciliation and Rate filing, dated June
22 17, 2022, in DE 22-038, UES proposed to include the reconciliation balance

1 associated with its SRAF in its External Delivery Charge for effect August 1,
2 2022. This balance is comprised of the reconciliation associated with Winter
3 Storm Quinn, as well as the balances from the December 2008 Ice Storm and
4 February 2010 Wind Storm which ended recovery in April 2019, and October
5 2017 Wind Storm which ended recovery in April 2021. The final reconciliation
6 balance was approved in Order No. 26,655 in DE 22-038. The resulting SRAF
7 effective May 1, 2022 was \$0.00000 per kWh, as there were no storms currently
8 being recovered through the SRAF. The proposed change to the SRAF effective
9 May 1, 2024 is an increase of \$0.00071 per kWh, factoring in the proposed
10 increase to the SRAF to recover the costs of the December 31, 2023 MSCR
11 deferral.

12 **Q. Please describe Schedule CGDN-2.**

13 A. Page 1 of Schedule CGDN-2 shows the calculation of the SRAF rate based on an
14 annual levelized cost divided by actual kWh sales for the 12-month period ending
15 December 31, 2023. Page 2 shows the costs, including carrying charges,
16 recovered on a levelized basis over a period of five years beginning May 1, 2024.
17 Page 2 also provides the interest savings between the Company's proposal versus
18 a status quo scenario where the December 31, 2023 balance rolls forward. The
19 methodology for calculating the rate is the same as used in previous storm
20 recovery proposals.

1 **Q. Will the reconciliation of costs and revenues be performed on a monthly**
2 **basis?**

3 A. Yes. As discussed above, the Company will apply actual revenue from the SRAF
4 to the May 1, 2024 balance. Carrying charges will be calculated monthly based on
5 the average monthly account balance.

6 **IV. TARIFF UPDATES**

7 **Q. Does this filing include a revised Summary of Delivery Service Rates, a**
8 **revised Summary of Low-Income Electric Assistance Program Discounts,**
9 **and a revised Summary of Whole House Residential Time of Use Rates and**
10 **Electric Vehicle Rates?**

11 A. Yes. Schedule CGDN-3, pages 1 through 4, provides redline versions of these
12 tariffs reflecting the proposed May 1, 2024 SRAF.

13 **Q. Does this filing include any other tariff changes associated with the SRAF**
14 **proposal?**

15 A. Yes. A redline version of the Company's Storm Recovery Adjustment Factor
16 tariff, Schedule SRAF, is included with this filing as Schedule CGDN-3, page 5.

17 **Q. Will the proposed SRAF affect any tariff pages not included with this filing?**

18 A. Yes, it will. The SRAF is included in the Summary Of Whole House Residential
19 Time Of Use Rates And Electric Vehicle Rates, tariff page 5-A. In accordance
20 with the Settlement in DE 20-170, the rates for whole house time of use and
21 electric vehicles change not only when various rate components change (e.g., the

1 SRAF), they also change each June 1 (summer) and December 1 (winter) due to
2 the application of seasonal ratios. Although the SRAF itself is not time varying,
3 tariff page 5-A will require a change for effect June 1, 2024, in order to apply
4 summer ratios to approved rates. Once an order has been issued in this docket,
5 the Company intends to file a June 1, 2024 tariff page 5-A reflecting all approved
6 rates in compliance with the appropriate docket.

7 **V. BILL IMPACTS**

8 **Q. What are the bill impacts associated with the proposed SRAF?**

9 A. Bill impacts for customers on default service are computed and shown in
10 Schedule CGDN-4. This schedule compares rates including the proposed May 1,
11 2024 SRAF to currently effective rates for each rate class. If the Company's
12 proposal is approved by the Commission, a typical 600 kWh residential customer
13 on Default Service will see a monthly bill increase of \$0.43 or 0.3 percent.
14 Impacts to other rate classes will be similar, but may vary based on size and
15 consumption pattern.

16 **VI. CONCLUSION**

17 **Q. Does this conclude your testimony?**

18 A. Yes, it does.

UNITIL ENERGY SYSTEMS, INC.
MAJOR STORM COST RESERVE COLLECTION BALANCE

Docket No. DE 24-____
Schedule CGDN-1
MSCR Collection Balance
Page 1 of 1

Line No.	Description	Dec-13	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18	Dec-19	Dec-20	Dec-21	Dec-22	Dec-23
1	Beginning (Over)/Under Collection	\$ 406,966	\$ 1,161,973	\$ 1,009,342	\$ 2,862,064	\$ 2,758,708	\$ 4,539,995	\$ 4,992,050	\$ 3,406,149	\$ 3,246,823	\$ 3,140,898	\$ 2,482,939
2	Storm Costs	1,374,471	593,310	2,521,986	572,142	2,438,860	2,260,220	611,426	459,177	519,202	17,383	1,836,296
3	Transfers ^{(1) (2)}	-	-	-	-	-	(1,257,109)	(1,591,597)	-	-	-	-
4	Customer Revenue	(666,667)	(800,000)	(800,000)	(800,000)	(800,000)	(800,000)	(800,000)	(800,000)	(800,000)	(800,000)	(800,000)
5	Interest	47,203	54,059	130,737	124,502	142,427	248,944	194,270	181,497	174,873	124,658	135,127
6	Ending (Over)/Under Collection	\$ 1,161,973	\$ 1,009,342	\$ 2,862,065	\$ 2,758,708	\$ 4,539,995	\$ 4,992,050	\$ 3,406,149	\$ 3,246,823	\$ 3,140,898	\$ 2,482,939	\$ 3,654,362

Notes:

(1) Per Order No. 26,123, the Company moved \$1,257,109 in costs related to the 10/30/17 Windstorm Event (costs reported in the 2017 MSCR Report, plus associated carrying charges) to the SRAF

(2) Per order No. 26,236 the Company moved \$1,591,597 in costs related to the 3/7/2018 Winter Storm Event (costs reported in the 2018 MSCR Report, plus associated carrying charges, less NHPUC Staff Audit Issue amount) to the SRAF

UNITIL ENERGY SYSTEMS, INC.
 December 31, 2023 MSCR Balance Incremental Cost - Recovery
 Calculation of Increment to the Storm Recovery Adjustment Factor
 Effective May 1, 2024

Description	Amount
Incremental Annual Recovery (Page 2)	\$ 804,960
Sales (kWh) - 12 months ending December 31, 2023	<u>1,131,876,030</u>
Storm Recovery Adjustment Factor (Increment, \$/kWh)*	<u><u>\$ 0.00071</u></u>

* To be added to the current Storm Recovery Adjustment Factor.

Current SRAF	\$ -
plus: recovery of 12/31/2023 Balance (proposed for effect 5/1/2024)	<u>\$ 0.00071</u>
Total SRAF for effect May 1, 2024:	\$ 0.00071

UNITIL ENERGY SYSTEMS, INC.
December 31, 2023 MSCR Balance - Recovery Schedule

Line No.	Year (A)	Beginning Balance With Interest (B)	Annual Recovery (C)	Ending Balance (D)	Balance Subject to Interest (E)	Interest Rate (F)	Interest (G)	Cumulative Interest (H)	
1	May 2024 - April 2025	\$ 3,654,362	\$ 804,960	\$ 2,849,402	\$ 3,251,882	4.01%	\$ 130,400	\$ 130,400	
2	May 2025 - April 2026	\$ 2,979,803	\$ 804,960	\$ 2,174,843	\$ 2,577,323	4.01%	\$ 103,351	\$ 233,751	
3	May 2026 - April 2027	\$ 2,278,193	\$ 804,960	\$ 1,473,233	\$ 1,875,713	4.01%	\$ 75,216	\$ 308,967	
4	May 2027 - April 2028	\$ 1,548,449	\$ 804,960	\$ 743,489	\$ 1,145,969	4.01%	\$ 45,953	\$ 354,921	
5	May 2028 - April 2029	\$ 789,443	\$ 804,960	\$ (15,517)	\$ 386,963	4.01%	\$ 15,517	\$ 370,438	
6	Total Recovery		\$ 4,024,800				\$ 370,438		
7	<u>Interest Savings Calculation</u>								
8	May 2024 - April 2025	\$ 3,654,362	\$ -	\$ 3,654,362	\$ 3,654,362	4.01%	\$ 146,540	\$ 146,540	
9	May 2025 - April 2026	\$ 3,800,902	\$ -	\$ 3,800,902	\$ 3,800,902	4.01%	\$ 152,416	\$ 298,956	
10	May 2026 - April 2027	\$ 3,953,318	\$ -	\$ 3,953,318	\$ 3,953,318	4.01%	\$ 158,528	\$ 457,484	
11	May 2027 - April 2028	\$ 4,111,846	\$ -	\$ 4,111,846	\$ 4,111,846	4.01%	\$ 164,885	\$ 622,369	
12	May 2028 - April 2029	\$ 4,276,731	\$ -	\$ 4,276,731	\$ 4,276,731	4.01%	\$ 171,497	\$ 793,866	
13	Total Recovery		\$ -				\$ 793,866		
14	Interest Savings under SRAF Proposal (Line 13 - Line 6)							\$ 423,428	

Column Notes

- (A) Time period
- (B) Prior period Column (D) + Prior period Column (G)
- (C) Annual Recovery
- (D) Column (B) - Column (C)
- (E) (Column (B) + Column (D)) ÷ 2
- (F) UES's Cost of Debt net of deferred taxes
- (G) Column (E) times Column (F)
- (H) Prior Year Column (H) + Current Year Column (G)

NHPUC No. 3 - Electricity Delivery
Unitil Energy Systems, Inc.

SUMMARY OF DELIVERY SERVICE RATES

Each bill rendered for electric delivery service shall be calculated through the application of the effective rates as listed below

Class		Distribution Charge*	Non-Transmission External Delivery Charge**	Transmission External Delivery Charge**	Total External Delivery Charge**	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge****	Revenue Decoupling Adjustment Factor**	Total Delivery Charges
D	Customer Charge	\$16.22						(1)		\$16.22
	All kWh	\$0.04612	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00000 \$0.00071	\$0.00727	\$0.00186	\$0.10001 \$0.10072
G2	Customer Charge	\$29.19								\$29.19
	All kW	\$12.13				\$0.00				\$12.13
	All kWh	\$0.00000	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00000 \$0.00071	\$0.00727	(\$0.00002)	\$0.05201 \$0.05272
G2 - kWh meter	Customer Charge	\$18.38								\$18.38
	All kWh	\$0.03270	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00000 \$0.00071	\$0.00727	(\$0.00002)	\$0.08471 \$0.08542
G2 - Quick Recovery Water Heat and/or Space Heat	Customer Charge	\$9.73								\$9.73
	All kWh	\$0.03669	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00000 \$0.00071	\$0.00727	(\$0.00002)	\$0.08870 \$0.08941
G1	Customer Charge	\$162.18	Secondary Voltage							\$162.18
	Customer Charge	\$86.49	Primary Voltage							\$86.49
	All kVA	\$8.53				\$0.00				\$8.53
	All kWh	\$0.00000	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00000 \$0.00071	\$0.00727	\$0.00014	\$0.05217 \$0.05288
ALL GENERAL	Transformer Ownership Credit (kW/kVa)									(\$0.50)
	Voltage Discount at 4,160 Volts or Over (all kW/kVA and kWh)									2.00%
	Voltage Discount at 34,500 Volts or Over (all kW/kVA and kWh)									3.50%

(1) Includes low-income portion of \$0.00150 per kWh, energy efficiency portion of \$0.00577 per kWh and lost base revenue portion of \$0.00000 per kWh.

* Authorized by NHPUC Order No. 26,837 in Case No. DE 23-014, dated May 31, 2023
 ** Authorized by NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023
 *** Authorized by NHPUC Order No. 26,236 in Case No. DE 19-043, dated April 22, 2019
 **** Authorized by NHPUC Order No. 26,911 in Case No. DE 23-098, dated December 11, 2023

Issued: February 28, 2024 December 27, 2023
 Effective: May January 1, 2024

Issued By: Daniel Hurstak
 Vice President and Treasurer

NHPUC No. 3 - Electricity Delivery
Unitil Energy Systems, Inc.

Fifty-Eighth Seventh Revised Page 5
Superseding Fifty-Seventh Sixth Revised Page 5

SUMMARY OF DELIVERY SERVICE RATES (continued)

Class	Distribution Charge*	Non-Transmission	Transmission	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge**** (1)	Total Delivery Charges
		External Delivery Charge**	External Delivery Charge**				
OL							
All kWh	\$0.00000	\$0.01396	\$0.03090	\$0.04486	(\$0.00010)	\$0.00071 \$0.00000	\$0.00727 \$0.05203

Luminaire Charges

Category	Lamp Size	Lumens (Approx.)	All-Night Service	Midnight Service	Description	Price Per Luminaire	
	Nominal Watts		Monthly kWh	Monthly kWh		Per Mo.	Per Year
Company	100	3,500	43	20	Mercury Vapor Street	\$13.73	\$164.76
Company	175	7,000	71	33	Mercury Vapor Street	\$15.73	\$188.76
Company	250	11,000	100	46	Mercury Vapor Street	\$17.25	\$207.00
Company	400	20,000	157	73	Mercury Vapor Street	\$17.25	\$207.00
Company	1,000	60,000	372	173	Mercury Vapor Street	\$24.78	\$297.36
Company	250	11,000	100	46	Mercury Vapor Flood	\$18.25	\$219.00
Company	400	20,000	157	73	Mercury Vapor Flood	\$21.57	\$258.84
Company	1,000	60,000	380	176	Mercury Vapor Flood	\$25.29	\$303.48
Company	100	3,500	48	22	Mercury Vapor Power Bracket	\$13.44	\$161.28
Company	175	7,000	71	33	Mercury Vapor Power Bracket	\$14.65	\$175.80
Company	50	4,000	23	11	Sodium Vapor Street	\$13.73	\$164.76
Company	100	9,500	48	22	Sodium Vapor Street	\$15.73	\$188.76
Company	150	16,000	65	30	Sodium Vapor Street	\$17.25	\$207.00
Company	250	30,000	102	47	Sodium Vapor Street	\$19.53	\$234.36
Company	400	50,000	161	75	Sodium Vapor Street	\$24.78	\$297.36
Company	1,000	140,000	380	176	Sodium Vapor Street	\$42.51	\$510.12
Company	150	16,000	65	30	Sodium Vapor Flood	\$18.25	\$219.00
Company	250	30,000	102	47	Sodium Vapor Flood	\$21.57	\$258.84
Company	400	50,000	161	75	Sodium Vapor Flood	\$25.29	\$303.48
Company	1,000	140,000	380	176	Sodium Vapor Flood	\$42.89	\$514.68
Company	50	4,000	23	11	Sodium Vapor Power Bracket	\$13.44	\$161.28
Company	100	9,500	48	22	Sodium Vapor Power Bracket	\$14.65	\$175.80
Company	175	8,800	74	34	Metal Halide Street	\$17.25	\$207.00
Company	1,000	86,000	374	174	Metal Halide Flood	\$25.29	\$303.48
Company	35	3,000	12	6	LED Area Light Fixture	\$13.44	\$161.28
Company	47	4,000	16	7	LED Area Light Fixture	\$14.65	\$175.80
Company	30	3,300	10	5	LED Street Light Fixture	\$13.73	\$164.76
Company	50	5,000	17	8	LED Street Light Fixture	\$15.73	\$188.76
Company	100	11,000	35	16	LED Street Light Fixture	\$17.25	\$207.00
Company	120	18,000	42	19	LED Street Light Fixture	\$19.53	\$234.36
Company	140	18,000	48	22	LED Street Light Fixture	\$24.78	\$297.36
Company	260	31,000	90	42	LED Street Light Fixture	\$42.51	\$510.12
Company	70	10,000	24	11	LED Flood Light Fixture	\$18.25	\$219.00
Company	90	10,000	31	14	LED Flood Light Fixture	\$21.57	\$258.84
Company	110	15,000	38	18	LED Flood Light Fixture	\$25.29	\$303.48
Company	370	46,000	128	59	LED Flood Light Fixture	\$42.89	\$514.68
Customer Paid	35	3,000	12	6	LED Area Light Fixture	\$7.00	\$84.00
Customer Paid	47	4,000	16	7	LED Area Light Fixture	\$8.21	\$98.52
Customer Paid	30	3,300	10	5	LED Street Light Fixture	\$9.71	\$116.52
Customer Paid	50	5,000	17	8	LED Street Light Fixture	\$11.92	\$143.04
Customer Paid	100	11,000	35	16	LED Street Light Fixture	\$12.48	\$149.76
Customer Paid	120	18,000	42	19	LED Street Light Fixture	\$14.76	\$177.12
Customer Paid	140	18,000	48	22	LED Street Light Fixture	\$17.83	\$213.96
Customer Paid	260	31,000	90	42	LED Street Light Fixture	\$33.56	\$402.72
Customer Paid	70	10,000	24	11	LED Flood Light Fixture	\$11.24	\$134.88
Customer Paid	90	10,000	31	14	LED Flood Light Fixture	\$14.56	\$174.72
Customer Paid	110	15,000	38	18	LED Flood Light Fixture	\$17.36	\$208.32
Customer Paid	370	46,000	128	59	LED Flood Light Fixture	\$27.00	\$324.00

(1) Includes low-income portion of \$0.00150 per kWh, energy efficiency portion of \$0.00577 per kWh and lost base revenue portion of \$0.00000 per kWh.

* Authorized by NHPUC Order No. 26,623 in Case No. DE 21-030, dated May 3, 2022

** Authorized by NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023

*** Authorized by NHPUC Order No. 26,236 in Case No. DE 19-043, dated April 22, 2019

**** Authorized by NHPUC Order No. 26,911 in Case No. DE 23-098, dated December 11, 2023

Issued: February 28, 2024
Effective: May 1, 2024

Issued By: Daniel Hurstak
Vice President and Treasurer

NHPUC No. 3 - Electricity Delivery
Unitil Energy Systems, Inc.

Tenth Ninth Revised Page 5-A
Superseding Ninth Eighth Revised Page 5-A

SUMMARY OF WHOLE HOUSE RESIDENTIAL TIME OF USE RATES AND ELECTRIC VEHICLE RATES

(DELIVERY AND SUPPLY)

Each bill rendered for electric delivery service and supply service (as applicable) shall be calculated through the application of the effective rates as listed below.

Class	DELIVERY RATES										SUPPLY RATES			Total Delivery and Supply	Total Delivery and Supply	
	Distribution Charge*	Non-Transmission External Delivery Charge**	Transmission External Delivery Charge**	Total External Delivery Charge**	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	Storm Recovery Adjustment Factor***	System Benefits Charge****	Revenue Decoupling Adjustment Factor**	Total Delivery Charges	Total Delivery Charges	Renewable Portfolio Standard Charge*****	Power Supply Charge*****			Total Default Service Charge*****
TOU-D Customer Charge	\$16.22									\$16.22	\$16.22				\$16.22	\$16.22
Off-Peak kWh	\$0.03966	\$0.01396	(\$0.00175)	\$0.01221	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727	\$0.00186	\$0.06090	\$0.06161	\$0.00577	\$0.06152	\$0.06729	\$0.12819	\$0.12890
Mid-Peak kWh	\$0.05438	\$0.01396	\$0.00037	\$0.01433	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727	\$0.00186	\$0.07774	\$0.07845	\$0.00577	\$0.06279	\$0.06856	\$0.14630	\$0.14701
On-Peak kWh	\$0.04691	\$0.01396	\$0.16980	\$0.18376	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727	\$0.00186	\$0.23970	\$0.24041	\$0.00577	\$0.07672	\$0.08249	\$0.32219	\$0.32290
TOU-EV-D Customer Charge	\$5.26									\$5.26	\$5.26				\$5.26	\$5.26
Off-Peak kWh	\$0.03966	\$0.01396	(\$0.00175)	\$0.01221	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727		\$0.05904	\$0.05975	\$0.00577	\$0.06152	\$0.06729	\$0.12633	\$0.12704
Mid-Peak kWh	\$0.05438	\$0.01396	\$0.00037	\$0.01433	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727		\$0.07588	\$0.07659	\$0.00577	\$0.06279	\$0.06856	\$0.14444	\$0.14515
On-Peak kWh	\$0.04691	\$0.01396	\$0.16980	\$0.18376	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727		\$0.23784	\$0.23855	\$0.00577	\$0.07672	\$0.08249	\$0.32033	\$0.32104
TOU-EV-G2 Customer Charge	\$29.19									\$29.19	\$29.19				\$29.19	\$29.19
All kW	\$6.07				\$0.00					\$6.07	\$6.07				\$6.07	\$6.07
Off-Peak kWh	\$0.02193	\$0.01396	(\$0.00161)	\$0.01235	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727		\$0.04145	\$0.04216	\$0.00577	\$0.05658	\$0.06235	\$0.10380	\$0.10451
Mid-Peak kWh	\$0.02149	\$0.01396	(\$0.00054)	\$0.01342	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727		\$0.04208	\$0.04279	\$0.00577	\$0.05924	\$0.06501	\$0.10709	\$0.10780
On-Peak kWh	\$0.02718	\$0.01396	\$0.19260	\$0.20656	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727		\$0.24091	\$0.24162	\$0.00577	\$0.07299	\$0.07876	\$0.31967	\$0.32038
TOU-EV-G1 Customer Charge	\$162.18	Secondary Voltage								\$162.18	\$162.18				\$162.18	\$162.18
Customer Charge	\$86.49	Primary Voltage								\$86.49	\$86.49				\$86.49	\$86.49
All kVA	\$4.27				\$0.00					\$4.27	\$4.27				\$4.27	\$4.27
Off-Peak kWh	\$0.01220	\$0.01396	(\$0.00163)	\$0.01233	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727		\$0.03170	\$0.03241	\$0.00700	MARKET	MARKET	MARKET	MARKET
Mid-Peak kWh	\$0.01285	\$0.01396	(\$0.00036)	\$0.01360	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727		\$0.03362	\$0.03433	\$0.00700	MARKET	MARKET	MARKET	MARKET
On-Peak kWh	\$0.01571	\$0.01396	\$0.19719	\$0.21115	(\$0.00010)	\$0.00000	\$0.00071	\$0.00727		\$0.23403	\$0.23474	\$0.00700	MARKET	MARKET	MARKET	MARKET
ALL GENERAL	Transformer Ownership Credit (kW/kVa)															(\$0.50)
	Voltage Discount at 4,160 Volts or Over (all kW/kVa and kWh)															2.00%
	Voltage Discount at 34,500 Volts or Over (all kW/kVa and kWh)															3.50%

DEFINITIONS
 Off-Peak kWh: Monday - Friday 8 P.M. - 6 A.M. and All Day Weekends and Weekday Holidays ¹
 Mid-Peak kWh: Monday - Friday 6 A.M. - 3 P.M., excluding Weekday Holidays ¹
 On-Peak kWh: Monday - Friday 3 P.M. - 8 P.M., excluding Weekday Holidays ¹

¹ Holidays observed by the State of New Hampshire pursuant to NH RSA 288:1.

* Authorized by NHPUC Order No. 26,837 in Case No. DE 23-014, dated May 31, 2023 and NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023
 ** Authorized by NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023
 *** Authorized by NHPUC Order No. 26,236 in Case No. DE 19-043, dated April 22, 2019
 **** Authorized by NHPUC Order No. 26,911 in Case No. DE 23-098, dated December 11, 2023
 ***** Authorized by NHPUC Order No. 26,910 in Case No. DE 23-054, dated December 8, 2023 and NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023

Issued: February 28 - January 4, 2024
 Effective: May - February 1, 2024

Issued By: Daniel Hurstak
 Vice President and Treasurer

**SUMMARY OF LOW-INCOME
ELECTRIC ASSISTANCE PROGRAM DISCOUNTS**

Low-Income Electric Assistance Program (LI-EAP) Discounts for Eligible Customers

Tier	Percentage of NH State Median Income & Federal Poverty Guidelines	Discount (5)	Blocks	LI-EAP discount Delivery Only *; Excludes Supply	LI-EAP discount Delivery Only *; Excludes Supply	LI-EAP discount Fixed Default Service ** Supply Only	LI-EAP discount Variable Default Service ** Supply Only										
				effective January 1, 2024 (1)	effective May 1, 2024 (1)	May February 2024-July 2024 (2)	Feb-24 (3)	Mar-24 (3)	Apr-24 (3)	May-24 (3)	Jun-24 (3)	Jul-24 (3)					
1 (4)	N/A	N/A															
2	151 (FPG) - 60 (SMI)	5%	Customer Charge	(\$0.81)	(\$0.81)												
			First 750 kWh	(\$0.00500)	(\$0.00504)	(\$0.00536)	(\$0.00808)	(\$0.00525)	(\$0.00431)	(\$0.00415)	(\$0.00428)	(\$0.00535)					
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
3	126 (FPG) - 150 (FPG)	19%	Customer Charge	(\$3.08)	(\$3.08)												
			First 750 kWh	(\$0.01900)	(\$0.01914)	(\$0.02036)	(\$0.03071)	(\$0.01997)	(\$0.01637)	(\$0.01578)	(\$0.01625)	(\$0.02031)					
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
4	101 (FPG) - 125 (FPG)	36%	Customer Charge	(\$5.84)	(\$5.84)												
			First 750 kWh	(\$0.03600)	(\$0.03626)	(\$0.03858)	(\$0.05819)	(\$0.03783)	(\$0.03102)	(\$0.02989)	(\$0.03079)	(\$0.03849)					
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
5	76 (FPG) - 100 (FPG)	54%	Customer Charge	(\$8.76)	(\$8.76)												
			First 750 kWh	(\$0.05401)	(\$0.05439)	(\$0.05788)	(\$0.08729)	(\$0.05674)	(\$0.04653)	(\$0.04484)	(\$0.04619)	(\$0.05773)					
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
6	0 - 75 (FPG)	86%	Customer Charge	(\$13.95)	(\$13.95)												
			First 750 kWh	(\$0.08601)	(\$0.08662)	(\$0.09217)	(\$0.13902)	(\$0.09037)	(\$0.07410)	(\$0.07141)	(\$0.07356)	(\$0.09194)					
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000

(1) Discount calculated using total utility charges from Page 4 multiplied by the appropriate discount. These figures exclude default service and are applicable to customers choosing a Competitive Supplier or self-supply. Customers taking default service from the Company would receive these discounts plus the appropriate discount applicable to default service supply. Competitively supplied customers billed on a consolidated basis would receive these discounts plus the appropriate fixed default service supply discount.

(2) Discount calculated using Non-G1 class (Residential) Fixed Default Service Rate multiplied by the appropriate discount. These figures exclude delivery.

(3) Discount calculated using Non-G1 class (Residential) Variable Default Service Rate, for the applicable month, multiplied by the appropriate discount. These figures exclude delivery.

(4) Tier 1 was eliminated by Order No. 25,200 in DE 10-192 dated March 4, 2011.

(5) Discounts effective October 1, 2023 in accordance with Order No. 26-870 in DE 22-043.

* Authorized by NHPUC Order No. 26,911 in Case No. DE 23-098, dated December 11, 2023

** Authorized by NHPUC Order No. 26,910 in Case No. DE 23-054, dated December 8, 2023 and NHPUC Order No. 26,865 in Case No. DE 23-057, dated July 31, 2023

Issued: February 28 January 4, 2024
Effective: May February 1, 2024

Issued By: Daniel Hurstak
Vice President and Treasurer

NHPUC No. 3 - Electricity Delivery
Unitil Energy Systems, Inc.

~~TenthNinth~~ Revised Page 69
Superseding ~~NinthEighth~~ Revised Page 69

STORM RECOVERY ADJUSTMENT FACTOR SCHEDULE SRAF

The Storm Recovery Adjustment Factor (“SRAF”) shall be billed by the Company to all customers taking Delivery Service from the Company. The purpose of the SRAF is to recover the costs of certain storms as approved by the Commission.

The Company established its initial SRAF as part of its base rate case, DE 10-055 effective May 1, 2011 and since that time has received approval to make adjustments to the SRAF in order to recover the costs associated with other major storms.

Effective May 1, 202~~4~~2, the total SRAF is \$0.000~~7100~~71 per kWh.

The SRAF was adjusted May 1, 2024 to recover the December 31, 2023 Major Storm Cost Reserve (“MSCR”) deferral balance of \$3,654,362. The adjustment was calculated using a total cost of \$4,024,800, the December 31, 2023 MSCR deferral balance, inclusive of carrying charges. The total cost is being recovered on a levelized basis of \$804,960 over a period of five years. Any unamortized balance will accrue carrying charges at an annual rate equaling the Company’s cost of debt, as approved in its most recent base rate case or as otherwise approved by the Commission, net of deferred taxes. Based on actual unit sales for twelve months ending December 2023, the adjustment was set at \$0.00071 per kWh and will remain in place until these storm costs have been fully recovered.

Authorized by NHPUC Order No. ~~26,236~~ in Case No. DE ~~19-043~~, dated ~~April 22, 2019~~

Issued: ~~February 28~~May 9, 202~~4~~2
Effective: May 1, 202~~4~~2

Issued by: Robert B. Hevert
Sr. Vice President
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Unitil Energy Systems, Inc.
Typical Bill Impacts - February 1, 2024 vs. May 1, 2024
Due to Changes in the Storm Recovery Adjustment Factor
Impact on D Rate Customers

<u>Average kWh</u>	<u>Total Bill Using Rates 2/1/2024</u>	<u>Total Bill Using Rates 5/1/2024</u>	<u>Total Difference</u>	<u>% Total Difference</u>
125	\$42.12	\$42.21	\$0.09	0.2%
150	\$47.30	\$47.41	\$0.11	0.2%
200	\$57.66	\$57.80	\$0.14	0.2%
250	\$68.02	\$68.20	\$0.18	0.3%
300	\$78.38	\$78.59	\$0.21	0.3%
350	\$88.74	\$88.99	\$0.25	0.3%
400	\$99.10	\$99.38	\$0.28	0.3%
450	\$109.46	\$109.78	\$0.32	0.3%
500	\$119.82	\$120.17	\$0.35	0.3%
525	\$124.99	\$125.37	\$0.37	0.3%
550	\$130.17	\$130.57	\$0.39	0.3%
575	\$135.35	\$135.76	\$0.41	0.3%
600	\$140.53	\$140.96	\$0.43	0.3%
625	\$145.71	\$146.16	\$0.44	0.3%
650	\$150.89	\$151.36	\$0.46	0.3%
675	\$156.07	\$156.55	\$0.48	0.3%
700	\$161.25	\$161.75	\$0.50	0.3%
725	\$166.43	\$166.95	\$0.51	0.3%
750	\$171.61	\$172.15	\$0.53	0.3%
775	\$176.79	\$177.34	\$0.55	0.3%
825	\$187.15	\$187.74	\$0.59	0.3%
925	\$207.87	\$208.53	\$0.66	0.3%
1,000	\$223.41	\$224.12	\$0.71	0.3%
1,250	\$275.21	\$276.10	\$0.89	0.3%
1,500	\$327.01	\$328.07	\$1.06	0.3%
2,000	\$430.60	\$432.02	\$1.42	0.3%
3,500	\$741.39	\$743.87	\$2.48	0.3%
5,000	\$1,052.17	\$1,055.72	\$3.55	0.3%

	<u>Rates - Effective February 1, 2024</u>	<u>Rates - Proposed May 1, 2024</u>	<u>Difference</u>
Customer Charge	\$16.22	\$16.22	\$0.00
	<u>kWh</u>	<u>kWh</u>	<u>kWh</u>
Distribution Charge:	\$0.04612	\$0.04612	\$0.00000
External Delivery Charge	\$0.04486	\$0.04486	\$0.00000
Stranded Cost Charge	(\$0.00010)	(\$0.00010)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00000	\$0.00071	\$0.00071
System Benefits Charge	\$0.00727	\$0.00727	\$0.00000
Revenue Decoupling Adjustment Factor	\$0.00186	\$0.00186	\$0.00000
Default Service Charge	\$0.10718	\$0.10718	\$0.00000
TOTAL	\$0.20719	\$0.20790	\$0.00071

Unitil Energy Systems, Inc.
Typical Bill Impacts - February 1, 2024 vs. May 1, 2024
Due to Changes in the Storm Recovery Adjustment Factor
Impact on G2 Rate Customers

Load Factor	Average Monthly kW	Average Monthly kWh	Total Bill Using Rates 2/1/2024	Total Bill Using Rates 5/1/2024	Total Difference	% Total Difference
20%	5	730	\$201.08	\$201.60	\$0.52	0.3%
20%	10	1,460	\$372.98	\$374.02	\$1.04	0.3%
20%	15	2,190	\$544.87	\$546.43	\$1.55	0.3%
20%	25	3,650	\$888.66	\$891.26	\$2.59	0.3%
20%	50	7,300	\$1,748.14	\$1,753.32	\$5.18	0.3%
20%	75	10,950	\$2,607.61	\$2,615.39	\$7.77	0.3%
20%	100	14,600	\$3,467.08	\$3,477.45	\$10.37	0.3%
20%	150	21,900	\$5,186.03	\$5,201.58	\$15.55	0.3%
36%	5	1,314	\$290.08	\$291.01	\$0.93	0.3%
36%	10	2,628	\$550.97	\$552.84	\$1.87	0.3%
36%	15	3,942	\$811.86	\$814.66	\$2.80	0.3%
36%	25	6,570	\$1,333.64	\$1,338.31	\$4.66	0.3%
36%	50	13,140	\$2,638.09	\$2,647.42	\$9.33	0.4%
36%	75	19,710	\$3,942.55	\$3,956.54	\$13.99	0.4%
36%	100	26,280	\$5,247.00	\$5,265.66	\$18.66	0.4%
36%	150	39,420	\$7,855.90	\$7,883.89	\$27.99	0.4%
50%	5	1,825	\$367.95	\$369.25	\$1.30	0.4%
50%	10	3,650	\$706.71	\$709.31	\$2.59	0.4%
50%	15	5,475	\$1,045.48	\$1,049.36	\$3.89	0.4%
50%	25	9,125	\$1,723.00	\$1,729.48	\$6.48	0.4%
50%	50	18,250	\$3,416.81	\$3,429.77	\$12.96	0.4%
50%	75	27,375	\$5,110.62	\$5,130.05	\$19.44	0.4%
50%	100	36,500	\$6,804.43	\$6,830.34	\$25.92	0.4%
50%	150	54,750	\$10,192.04	\$10,230.92	\$38.87	0.4%

	Rates - Effective February 1, 2024	Rates - Proposed May 1, 2024	Difference
Customer Charge	\$29.19	\$29.19	\$0.00
	<u>All kW</u>	<u>All kW</u>	<u>All kW</u>
Distribution Charge	\$12.13	\$12.13	\$0.00
Stranded Cost Charge	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
TOTAL	\$12.13	\$12.13	\$0.00
	<u>kWh</u>	<u>kWh</u>	<u>kWh</u>
Distribution Charge	\$0.00000	\$0.00000	\$0.00000
External Delivery Charge	\$0.04486	\$0.04486	\$0.00000
Stranded Cost Charge	(\$0.00010)	(\$0.00010)	\$0.00000
Storm Recovery Adj. Factor	\$0.00000	\$0.00071	\$0.00071
System Benefits Charge	\$0.00727	\$0.00727	\$0.00000
Revenue Decoupling Adjustment Factor	(\$0.00002)	(\$0.00002)	\$0.00000
Default Service Charge	<u>\$0.10038</u>	<u>\$0.10038</u>	<u>\$0.00000</u>
TOTAL	\$0.15239	\$0.15310	\$0.00071

Unitil Energy Systems, Inc.
Typical Bill Impacts - February 1, 2024 vs. May 1, 2024
Due to Changes in the Storm Recovery Adjustment Factor
Impact on G2 kWh Meter Rate Customers

<u>Average Monthly kWh</u>	<u>Total Bill Using Rates 2/1/2024</u>	<u>Total Bill Using Rates 5/1/2024</u>	<u>Total Difference</u>	<u>% Total Difference</u>
15	\$21.16	\$21.17	\$0.01	0.1%
75	\$32.26	\$32.32	\$0.05	0.2%
150	\$46.14	\$46.25	\$0.11	0.2%
250	\$64.65	\$64.83	\$0.18	0.3%
350	\$83.16	\$83.41	\$0.25	0.3%
450	\$101.67	\$101.99	\$0.32	0.3%
550	\$120.18	\$120.57	\$0.39	0.3%
650	\$138.69	\$139.15	\$0.46	0.3%
750	\$157.20	\$157.73	\$0.53	0.3%
900	\$184.96	\$185.60	\$0.64	0.3%

	<u>Rates - Effective February 1, 2024</u>	<u>Rates - Proposed May 1, 2024</u>	<u>Difference</u>
Customer Charge	\$18.38	\$18.38	\$0.00
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.03270	\$0.03270	\$0.00000
External Delivery Charge	\$0.04486	\$0.04486	\$0.00000
Stranded Cost Charge	(\$0.00010)	(\$0.00010)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00000	\$0.00071	\$0.00071
System Benefits Charge	\$0.00727	\$0.00727	\$0.00000
Revenue Decoupling Adjustment Factor	(\$0.00002)	(\$0.00002)	\$0.00000
Default Service Charge	<u>\$0.10038</u>	<u>\$0.10038</u>	<u>\$0.00000</u>
TOTAL	\$0.18509	\$0.18580	\$0.00071

Unitil Energy Systems, Inc.
Typical Bill Impacts - February 1, 2024 vs. May 1, 2024
Due to Changes in the Storm Recovery Adjustment Factor
Impact on G2 QRWH and SH Rate Customers

Average kWh	Total Bill Using Rates 2/1/2024	Total Bill Using Rates 5/1/2024	Total Difference	% Total Difference
100	\$28.64	\$28.71	\$0.07	0.2%
200	\$47.55	\$47.69	\$0.14	0.3%
300	\$66.45	\$66.67	\$0.21	0.3%
400	\$85.36	\$85.65	\$0.28	0.3%
500	\$104.27	\$104.63	\$0.36	0.3%
750	\$151.54	\$152.07	\$0.53	0.4%
1,000	\$198.81	\$199.52	\$0.71	0.4%
1,500	\$293.35	\$294.42	\$1.07	0.4%
2,000	\$387.89	\$389.31	\$1.42	0.4%
2,500	\$482.43	\$484.21	\$1.78	0.4%

	Rates - Effective February 1, 2024	Rates - Proposed May 1, 2024	Difference
Customer Charge	\$9.73	\$9.73	\$0.00
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.03669	\$0.03669	\$0.00000
External Delivery Charge	\$0.04486	\$0.04486	\$0.00000
Stranded Cost Charge	(\$0.00010)	(\$0.00010)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00000	\$0.00071	\$0.00071
System Benefits Charge	\$0.00727	\$0.00727	\$0.00000
Revenue Decoupling Adjustment Factor	(\$0.00002)	(\$0.00002)	\$0.00000
Default Service Charge	<u>\$0.10038</u>	<u>\$0.10038</u>	<u>\$0.00000</u>
TOTAL	\$0.18908	\$0.18979	\$0.00071

Unitil Energy Systems, Inc.
Typical Bill Impacts - February 1, 2024 vs. May 1, 2024
Due to Changes in the Storm Recovery Adjustment Factor
Impact on G1 Rate Customers

Load Factor	Average Monthly kVa	Average Monthly kWh	Total Bill Using Rates 2/1/2024	Total Bill Using Rates 5/1/2024	Total Difference	% Total Difference
25.0%	200	36,500	\$8,220.64	\$8,246.56	\$25.92	0.3%
25.0%	400	73,000	\$16,279.10	\$16,330.93	\$51.83	0.3%
25.0%	600	109,500	\$24,337.56	\$24,415.31	\$77.74	0.3%
25.0%	800	146,000	\$32,396.02	\$32,499.68	\$103.66	0.3%
25.0%	1,000	182,500	\$40,454.48	\$40,584.06	\$129.58	0.3%
25.0%	1,500	273,750	\$60,600.63	\$60,794.99	\$194.36	0.3%
25.0%	2,000	365,000	\$80,746.78	\$81,005.93	\$259.15	0.3%
25.0%	2,500	456,250	\$100,892.93	\$101,216.87	\$323.94	0.3%
25.0%	3,000	547,500	\$121,039.08	\$121,427.81	\$388.73	0.3%
40.0%	200	58,400	\$12,032.12	\$12,073.58	\$41.46	0.3%
40.0%	400	116,800	\$23,902.05	\$23,984.98	\$82.93	0.3%
40.0%	600	175,200	\$35,771.99	\$35,896.38	\$124.39	0.3%
40.0%	800	233,600	\$47,641.92	\$47,807.78	\$165.86	0.3%
40.0%	1,000	292,000	\$59,511.86	\$59,719.18	\$207.32	0.3%
40.0%	1,500	438,000	\$89,186.70	\$89,497.68	\$310.98	0.3%
40.0%	2,000	584,000	\$118,861.54	\$119,276.18	\$414.64	0.3%
40.0%	2,500	730,000	\$148,536.38	\$149,054.68	\$518.30	0.3%
40.0%	3,000	876,000	\$178,211.22	\$178,833.18	\$621.96	0.3%
57.0%	200	83,220	\$16,351.79	\$16,410.88	\$59.09	0.4%
57.0%	400	166,440	\$32,541.40	\$32,659.57	\$118.17	0.4%
57.0%	600	249,660	\$48,731.01	\$48,908.27	\$177.26	0.4%
57.0%	800	332,880	\$64,920.62	\$65,156.96	\$236.34	0.4%
57.0%	1,000	416,100	\$81,110.22	\$81,405.66	\$295.43	0.4%
57.0%	1,500	624,150	\$121,584.25	\$122,027.39	\$443.15	0.4%
57.0%	2,000	832,200	\$162,058.27	\$162,649.13	\$590.86	0.4%
57.0%	2,500	1,040,250	\$202,532.29	\$203,270.87	\$738.58	0.4%
57.0%	3,000	1,248,300	\$243,006.31	\$243,892.61	\$886.29	0.4%
71.0%	200	103,660	\$19,909.17	\$19,982.77	\$73.60	0.4%
71.0%	400	207,320	\$39,656.15	\$39,803.35	\$147.20	0.4%
71.0%	600	310,980	\$59,403.14	\$59,623.94	\$220.80	0.4%
71.0%	800	414,640	\$79,150.13	\$79,444.52	\$294.39	0.4%
71.0%	1,000	518,300	\$98,897.11	\$99,265.11	\$367.99	0.4%
71.0%	1,500	777,450	\$148,264.58	\$148,816.57	\$551.99	0.4%
71.0%	2,000	1,036,600	\$197,632.04	\$198,368.03	\$735.99	0.4%
71.0%	2,500	1,295,750	\$246,999.51	\$247,919.49	\$919.98	0.4%
71.0%	3,000	1,554,900	\$296,366.98	\$297,470.96	\$1,103.98	0.4%

	Rates - Effective February 1, 2024	Rates - Proposed May 1, 2024	Difference
Customer Charge	\$162.18	\$162.18	\$0.00
	All kVA	All kVA	All kVA
Distribution Charge	\$8.53	\$8.53	\$0.00
Stranded Cost Charge	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
TOTAL	\$8.53	\$8.53	\$0.00
	All kWh	All kWh	All kWh
Distribution Charge	\$0.00000	\$0.00000	\$0.00000
External Delivery Charge	\$0.04486	\$0.04486	\$0.00000
Stranded Cost Charge	(\$0.00010)	(\$0.00010)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00000	\$0.00071	\$0.00071
System Benefits Charge	\$0.00727	\$0.00727	\$0.00000
Default Service Charge*	<u>\$0.12201</u>	<u>\$0.12201</u>	<u>\$0.00000</u>
TOTAL	\$0.17404	\$0.17475	\$0.00071

* Default Service Charge for the G1 class is determined monthly. For purposes of this comparison, the February 2024 rate is unchanged.

Unitil Energy Systems, Inc.
Typical Bill Impacts - February 1, 2024 vs. May 1, 2024
Due to Changes in the Storm Recovery Adjustment Factor
Impact on OL Rate Customers *

	Nominal Watts	Lumens	Type	Average Monthly kWh	Total Bill Using Rates 2/1/2024	Total Bill Using Rates 5/1/2024	Total Difference	% Total Difference
<u>Mercury Vapor:</u>								
1	100	3,500	ST	43	\$20.28	\$20.31	\$0.03	0.2%
2	175	7,000	ST	71	\$26.55	\$26.60	\$0.05	0.2%
3	250	11,000	ST	100	\$32.49	\$32.56	\$0.07	0.2%
4	400	20,000	ST	157	\$41.18	\$41.29	\$0.11	0.3%
5	1,000	60,000	ST	372	\$81.48	\$81.74	\$0.26	0.3%
6	250	11,000	FL	100	\$33.49	\$33.56	\$0.07	0.2%
7	400	20,000	FL	157	\$45.50	\$45.61	\$0.11	0.2%
8	1,000	60,000	FL	380	\$83.21	\$83.48	\$0.27	0.3%
9	100	3,500	PB	48	\$20.76	\$20.79	\$0.03	0.2%
10	175	7,000	PB	71	\$25.47	\$25.52	\$0.05	0.2%
<u>High Pressure Sodium:</u>								
11	50	4,000	ST	23	\$17.24	\$17.25	\$0.02	0.1%
12	100	9,500	ST	48	\$23.05	\$23.08	\$0.03	0.1%
13	150	16,000	ST	65	\$27.16	\$27.20	\$0.05	0.2%
14	250	30,000	ST	102	\$35.08	\$35.15	\$0.07	0.2%
15	400	50,000	ST	161	\$49.32	\$49.43	\$0.11	0.2%
16	1,000	140,000	ST	380	\$100.43	\$100.70	\$0.27	0.3%
17	150	16,000	FL	65	\$28.16	\$28.20	\$0.05	0.2%
18	250	30,000	FL	102	\$37.12	\$37.19	\$0.07	0.2%
19	400	50,000	FL	161	\$49.83	\$49.94	\$0.11	0.2%
20	1,000	140,000	FL	380	\$100.81	\$101.08	\$0.27	0.3%
21	50	4,000	PB	23	\$16.95	\$16.96	\$0.02	0.1%
22	100	9,500	PB	48	\$21.97	\$22.00	\$0.03	0.2%
<u>Metal Halide:</u>								
23	175	8,800	ST	74	\$28.53	\$28.58	\$0.05	0.2%
24	1,000	86,000	FL	374	\$82.29	\$82.56	\$0.27	0.3%
<u>LED</u>								
25	35	3,000	AL	12	\$15.27	\$15.28	\$0.01	0.1%
26	47	4,000	AL	16	\$17.09	\$17.10	\$0.01	0.1%
27	30	3,300	ST	10	\$15.25	\$15.26	\$0.01	0.0%
28	50	5,000	ST	17	\$18.32	\$18.33	\$0.01	0.1%
29	100	11,000	ST	35	\$22.58	\$22.61	\$0.02	0.1%
30	120	18,000	ST	42	\$25.93	\$25.96	\$0.03	0.1%
31	140	18,000	ST	48	\$32.10	\$32.13	\$0.03	0.1%
32	260	31,000	ST	90	\$56.23	\$56.29	\$0.06	0.1%
33	70	10,000	FL	24	\$21.91	\$21.92	\$0.02	0.1%
34	90	10,000	FL	31	\$26.29	\$26.32	\$0.02	0.1%
35	110	15,000	FL	38	\$31.08	\$31.11	\$0.03	0.1%
36	370	46,000	FL	128	\$62.40	\$62.49	\$0.09	0.1%

Luminaire Charges For Year Round Service:

Rates - Effective February 1, 2024	Mercury Vapor Rate/Mo.	Sodium Vapor Rate/Mo.	Metal Halide Rate/Mo.	LED Rate/Mo.	
Customer Charge	\$0.00	1 \$13.73	11 \$13.73	23 \$17.25	25 \$13.44
		2 \$15.73	12 \$15.73	24 \$25.29	26 \$14.65
	<u>All kWh</u>	3 \$17.25	13 \$17.25		27 \$13.73
Distribution Charge	\$0.00000	4 \$17.25	14 \$19.53		28 \$15.73
External Delivery Charge	\$0.04486	5 \$24.78	15 \$24.78		29 \$17.25
Stranded Cost Charge	(\$0.00010)	6 \$18.25	16 \$42.51		30 \$19.53
Storm Recovery Adj. Factor	\$0.00000	7 \$21.57	17 \$18.25		31 \$24.78
System Benefits Charge	\$0.00727	8 \$25.29	18 \$21.57		32 \$42.51
Default Service Charge	<u>\$0.10038</u>	9 \$13.44	19 \$25.29		33 \$18.25
TOTAL	\$0.15241	10 \$14.65	20 \$42.89		34 \$21.57
			21 \$13.44		35 \$25.29
			22 \$14.65		36 \$42.89

Rates - Proposed May 1, 2024	Mercury Vapor Rate/Mo.	Sodium Vapor Rate/Mo.	Metal Halide Rate/Mo.	LED Rate/Mo.	
Customer Charge	\$0.00	1 \$13.73	11 \$13.73	23 \$17.25	25 \$13.44
		2 \$15.73	12 \$15.73	24 \$25.29	26 \$14.65
	<u>All kWh</u>	3 \$17.25	13 \$17.25		27 \$13.73
Distribution Charge	\$0.00000	4 \$17.25	14 \$19.53		28 \$15.73
External Delivery Charge	\$0.04486	5 \$24.78	15 \$24.78		29 \$17.25
Stranded Cost Charge	(\$0.00010)	6 \$18.25	16 \$42.51		30 \$19.53
Storm Recovery Adj. Factor	\$0.00071	7 \$21.57	17 \$18.25		31 \$24.78
System Benefits Charge	\$0.00727	8 \$25.29	18 \$21.57		32 \$42.51
Default Service Charge	<u>\$0.10038</u>	9 \$13.44	19 \$25.29		33 \$18.25
TOTAL	\$0.15312	10 \$14.65	20 \$42.89		34 \$21.57
			21 \$13.44		35 \$25.29
			22 \$14.65		36 \$42.89

Difference	Mercury Vapor Rate/Mo.	Sodium Vapor Rate/Mo.	Metal Halide Rate/Mo.	LED Rate/Mo.	
Customer Charge	\$0.00	1 \$0.00	11 \$0.00	23 \$0.00	25 \$0.00
		2 \$0.00	12 \$0.00	24 \$0.00	26 \$0.00
	<u>All kWh</u>	3 \$0.00	13 \$0.00		27 \$0.00
Distribution Charge	\$0.00000	4 \$0.00	14 \$0.00		28 \$0.00
External Delivery Charge	\$0.00000	5 \$0.00	15 \$0.00		29 \$0.00
Stranded Cost Charge	\$0.00000	6 \$0.00	16 \$0.00		30 \$0.00
Storm Recovery Adj. Factor	\$0.00071	7 \$0.00	17 \$0.00		31 \$0.00
System Benefits Charge	\$0.00000	8 \$0.00	18 \$0.00		32 \$0.00
Default Service Charge	<u>\$0.00000</u>	9 \$0.00	19 \$0.00		33 \$0.00
TOTAL	\$0.00071	10 \$0.00	20 \$0.00		34 \$0.00
			21 \$0.00		35 \$0.00
			22 \$0.00		36 \$0.00

* Luminaire charges based on All-Night Service option.

Unitil Energy Systems, Inc.
Typical Bill Impacts - February 1, 2024 vs. May 1, 2024
Due to Changes in the Storm Recovery Adjustment Factor
Impact on Tariffed Customer Supplied LED Rate Customers

	<u>Nominal Watts</u>	<u>Lumens</u>	<u>Type</u>	<u>Current Average Monthly kWh</u>	<u>Total Bill Using Rates 2/1/2024</u>	<u>Total Bill Using Rates 5/1/2024</u>	<u>Total Difference</u>	<u>% Total Difference</u>
	<u>CS LED</u>							
1	35	3,000	AL	12	\$8.83	\$8.84	\$0.01	0.1%
2	47	4,000	AL	16	\$10.65	\$10.66	\$0.01	0.1%
3	30	3,300	ST	10	\$11.23	\$11.24	\$0.01	0.1%
4	50	5,000	ST	17	\$14.51	\$14.52	\$0.01	0.1%
5	100	11,000	ST	35	\$17.81	\$17.84	\$0.02	0.1%
6	120	18,000	ST	42	\$21.16	\$21.19	\$0.03	0.1%
7	140	18,000	ST	48	\$25.15	\$25.18	\$0.03	0.1%
8	260	31,000	ST	90	\$47.28	\$47.34	\$0.06	0.1%
9	70	10,000	FL	24	\$14.90	\$14.91	\$0.02	0.1%
10	90	10,000	FL	31	\$19.28	\$19.31	\$0.02	0.1%
11	110	15,000	FL	38	\$23.15	\$23.18	\$0.03	0.1%
12	370	46,000	FL	128	\$46.51	\$46.60	\$0.09	0.2%

Rates - Effective February 1, 2024

Rates - Proposed May 1, 2024

Difference

Customer Charge	\$0.00	Customer Charge	\$0.00	Customer Charge	\$0.00
	<u>All kWh</u>		<u>All kWh</u>		
Distribution Charge	\$0.00000	Distribution Charge	\$0.00000	Distribution Charge	\$0.00000
External Delivery Charge	\$0.04486	External Delivery Charge	\$0.04486	External Delivery Charge	\$0.00000
Stranded Cost Charge	(\$0.00010)	Stranded Cost Charge	(\$0.00010)	Stranded Cost Charge	\$0.00000
Storm Recovery Adj. Factor	\$0.00000	Storm Recovery Adj. Factor	\$0.00071	Storm Recovery Adj. Factor	\$0.00071
System Benefits Charge	\$0.00727	System Benefits Charge	\$0.00727	System Benefits Charge	\$0.00000
Fixed Default Service Charge	<u>\$0.10038</u>	Fixed Default Service Charge	<u>\$0.10038</u>	Fixed Default Service Charge	<u>\$0.00000</u>
TOTAL	\$0.15241	TOTAL	\$0.15312	TOTAL	\$0.00071

Luminaire Charges:

Luminaire Charges:

Luminaire Charges:

<u>CS LED Rate/Mo.</u>	<u>CS LED Rate/Mo.</u>	<u>CS LED Rate/Mo.</u>
1 \$7.00	1 \$7.00	1 \$0.00
2 \$8.21	2 \$8.21	2 \$0.00
3 \$9.71	3 \$9.71	3 \$0.00
4 \$11.92	4 \$11.92	4 \$0.00
5 \$12.48	5 \$12.48	5 \$0.00
6 \$14.76	6 \$14.76	6 \$0.00
7 \$17.83	7 \$17.83	7 \$0.00
8 \$33.56	8 \$33.56	8 \$0.00
9 \$11.24	9 \$11.24	9 \$0.00
10 \$14.56	10 \$14.56	10 \$0.00
11 \$17.36	11 \$17.36	11 \$0.00
12 \$27.00	12 \$27.00	12 \$0.00