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Unitil Energy Systems, Inc. Docket No. DE 22-026 NHPUC Record Requests – 6/13/22 Hearing

Date Request Received: 6/13/2022 Date of Response: 6/22/2022 Request No. NHPUC RR 1-1 Witness: C. Goulding & D. Nawazelski

REQUEST:

Reference Hearing Exhibit 10, Second Revised CGKS-5. Assume that the \$407,914,123 at Line 1, Column (b) includes no growth component.

- (a) (1) Calculate the revenue requirement assuming no additions were made in 2021;
 - (2) Calculate the revenue requirement for non-growth assets added in 2021;
 - (3) Sum 1 and 2 to determine the revenue requirement.
- (b) Subtract 2021 Growth Plant Additions from the total change in net plant and calculate the revenue requirement

RESPONSE:

Please refer to NHPUC RR 1-1 Attachment 1 for the requested revenue requirement calculations.

These calculations are for illustrative purposes only, and should not apply for the purposes of calculating Unitil's Step Adjustment revenue requirement. As an initial matter, the calculation requested in this record request does not result in an accurate measure of the Company's Change in Non-Growth Net Plant in 2021, and as such does not yield an accurate revenue requirement for the purposes of this Step Adjustment as provided in the Settlement Agreement reached in Docket DE 21-030. The settling parties in DE 21-030 agreed to a specific method for calculating the step adjustment revenue requirement as being just and reasonable, and the method should not be adjusted.

The assignment of all depreciation expense to Non-Growth Plant Additions, as the record request assumes, is inconsistent with utility accounting practices and traditional ratemaking principles. Regarding utility accounting practices, it is a statement of fact that vintage investments included in and prior to the Company's last base rate case test year included both Growth and Non-Growth related investments. The allocation of those investments (to growth and non-growth assets) is entirely consistent with industry practice. To that point, every rate case includes an exercise of allocation in which the Company completes cost studies that provide an analytical approach to the apportionment of the total Cost of Service, or Revenue Requirement. Stated differently, a Cost of Service study allocates to each rate class its proportionate share of the utility's cost of service for those customers.

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Unitil Energy Systems, Inc. Docket No. DE 22-026 NHPUC Record Requests – 6/13/22 Hearing

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The Step Adjustment methodology in this docket is no different – it appropriately allocates the associated cost (depreciation expense) to the type of investment that produced that cost (Growth vs Non-Growth investment). Assigning Growth investment-related depreciation expense to Non-Growth investments creates a mismatch in cost assignment to the Non-Growth revenue requirement. As a result, the alternative method arbitrarily and unreasonably reduces the Rate Base on which the Company is allowed a return.

There is good reason to accept that not all depreciation expense should be allocated to a discrete subgroup of assets (in this case, Non-Growth plant). As discussed at the hearing on June 13, 2022, certain distribution FERC plant accounts are predominantly growth assets. These accounts include (but are not limited to) FERC 369-Services, 370-Meters and Meter Installations, and 371- Installations on Customer Premises. In DE 21-030, Hearing Exhibit 12, Bates 000060, Column 9, Lines 18-21, also attached as NHPUC RR Attachment 2, the Company provided the annualized depreciation expense associated with these accounts as of the end of the Company's test year. As Attachment 2 demonstrates, the total depreciation for those assets is \$2,582,198. If this level of depreciation were to be input in NHPUC RR Attachment 1, Column (q), Line 12d the resulting revenue requirement increase on the Change in Net Plant Less 2021 Vintage Growth Net Investments would be \$1,191,335, or \$112,504 lower than the Company's proposed revenue requirement. Although the Company is not proposing that approach, it does believe the data and calculations support its view that Non-Growth related assets should not bear all deprecation. Ultimately, the Company's Step Adjustment methodology ensures that the Company is only allowed a return on the incremental Non-Growth Change in Net Plant Rate Base since its last base rate case. such that there is no double recovery of depreciation expense.

Moreover, assigning all depreciation expense to non-growth additions in the step increase revenue requirement calculation effectively assumes that the revenue requirement for the 2021 growth additions is supported by new customer (growth) revenues. This is a fundamentally flawed assumption and is exacerbated by the modification to the Step increase revenue requirement calculation. In fact, new customer addition investments tend to be cash flow negative in the beginning years.

Based on the average customer growth over the last 5 years (2017 to 2021)¹, and the Revenue Per Customer approved in Docket No. DE 21-030 (RR-1 Attachment 5, Page 3), the expected revenues associated with customer growth is \$412,553 (RR-1 Attachment 3, Line 10), but applying the Step increase calculation methodology requested in this record request results in a growth revenue requirement necessary to

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¹ RR-1 Attachment 4 (Docket No. DE 21-030 Record Request 4)

Unitil Energy Systems, Inc. Docket No. DE 22-026 NHPUC Record Requests – 6/13/22 Hearing

Date Request Received: 6/13/2022 Date of Response: 6/22/2022 Request No. NHPUC RR 1-1 Witness: C. Goulding & D. Nawazelski

support the 2021 growth capital additions of \$787,466 (RR-1 Attachment 1, Line 19 Col. E). This results in a shortfall of new customer revenues to support the 2021 growth investment of \$374,913. In order to support the growth revenue requirement of \$787,466, the Company would have to add almost two times as many customers per year as it has averaged over the past five years, an unsupported assumption.

Alternatively, when the step increase is calculated consistent with the terms of the Settlement Agreement, which was a comprehensive resolution of all items in the rate case, the growth revenue requirement necessary to support the 2021 growth capital additions is \$420,641 (RR-1 Attachment 1, Line 19 Col. B) which is only \$8,088 more than the estimated revenues from new customers based on the 5 year average of new customers.

The summary table below shows the overall revenue difference between the Settlement Agreement step increase and the Record Request calculation Step increase.

		Total		Growth	No	n-Growth					
Line #	Step Increase Calculation Consistent with the SA	Reve	enu	e Requirer	nen	t	Source Growth	Source Non-Growth			
1	Revenue Requirement	\$ 1,724,481	\$	420,641	\$	1,303,839	RR-1 Att 1, Line 19 Col. B	RR-1 Att 1, Line 19 Col. C			
2											
3	Increased Revenues	\$ 1,716,392	\$	412,553	\$	1,303,839	RR-1 Att 3, Line 10	RR-1 Att 1, Line 21 Col. C			
4											
5	Difference (Shortfall) / Excess	\$ (8,088)	\$	(8,088)	\$						
6											
7		Total		Growth	No	n-Growth					
8	Step Increase Calculation per Record Request 1	Reve	enu	e Requirer	nen	t	Source Growth	Source Non-Growth			
9	Revenue Requirement	\$ 1,724,481	\$	787,466	\$	937,015	RR-1 Att 1, Line 19 Col. E	RR-1 Att 1, Line 19 Col. D + Col. F			
10											
11	Increased Revenues	\$ 1,349,568	\$	412,553	\$	937,015	RR-1 Att 3, Line 10	RR-1 Att 1, Line 22 Col. F			
12											
13	Difference (Shortfall) / Excess	\$ (374,913)	\$	(374,913)	\$	(0)					

In summary, by adjusting the Step increase calculation as requested in this record request, the calculation will result in an artificially depressed and significantly understated revenue requirement that is inconsistent with the intent of the settling parties in DE 21-030.

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Unitil Energy Systems, Inc. 2022 Step Adjustment

	Rate Effective Date		Per Com	pany Filing on June	9, 2022	1	Record Request 1(A)	Record Request 1(B)
Line No.	Description	lnv	Total vestment Year 2021	Growth Investment Year 2021	Non-Growth Investment Year 2021	Total Investment Year 2021	Growth Investment Year 2021	Non-Growth Investment Year 2021	Total Investment Year 2021
			(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Beginning Utility Plant (1)	\$	407,914,123			\$ 407,914,123			\$ 407,914,123
2	Plant Additions (2)		22,267,917	5,709,229	16,558,688	-	5,709,229	16,558,688	22,267,917
3	Retirements		(5,157,729)	(1,254,811)	(3,902,918)	(5,157,729)		(3,902,918)	(5,157,729)
4	Ending Utility Plant		425,024,311	4,454,418	12,655,770	402,756,394	4,454,418	12,655,770	
5	Beginning Accumulated Depreciation (3)		138,059,087			138,059,087			138,059,087
6	Depreciation Expense		15,309,001	3,724,488	11,584,514	15,309,001	-	-	15,309,001
7	Retirements		(5,157,729)	(1,254,811)	(3,902,918)	(5,157,729)	(1,254,811)	(3,902,918)	(5,157,729)
8	Cost of Removal, Salvage and Transfers		(2,567,208)	(343,445)	(2,223,762)	-	(343,445)	(2,223,762)	(2,567,208)
9	Ending Accumulated Depreciation		145,643,152	2,126,231	5,457,834	148,210,360	(1,598,256)	(6,126,680)	145,643,152
10	Ending Net Utility Plant		279,381,159	2,328,186	7,197,936	254,546,034	6,052,674	18,782,450	279,381,159
11	Change in Net Plant		9,526,123	2,328,186	7,197,936	(15,309,001)	6,052,674	18,782,450	9,526,123
12	Less Growth Plant Additions		n/a	n/a	n/a	n/a	n/a	n/a	n/a
12b	2021 Vintage Growth Additions								5,709,229
12c	2021 Vintage Growth Cost of Removal, Salvage and Transfers								(343,445)
12d	Growth Depreciation								
12e	Growth Net Investment								6,052,674
13	Change in Net Plant		9,526,123	2,328,186	7,197,936	(15,309,001)	, ,	18,782,450	n/a
13b	Change in Net Plant Less 2021 Vintage Growth Net Investments		n/a	n/a	n/a	n/a	n/a	n/a	3,473,449
14	Pre-Tax Rate of Return		9.19%	9.19%	9.19%	9.19%		9.19%	
15	Return and Taxes		875,354	213,937	661,417	(1,406,742)	556,179	1,725,916	319,175
16	Depreciation Expense on Non-Growth Plant Additions at (5)	.35%	746,285	191,339	554,947	-	191,339	554,947	554,947
17	Property Taxes on Non-Growth Change in Net Plant at (6) 0.	.66%	62,872	15,366	47,506	(101,039)	39,948	123,964	22,925
18	Amortization on Post-Test-Year Projects		39,969	-	39,969	-	-	39,969	39,969
19	Revenue Requirement Increase	\$	1,724,481	\$ 420,641	\$ 1,303,839	\$ (1,507,781)	\$ 787,466	\$ 2,444,796	\$ 937,015
20	Step 1 Revenue Requirement Capped Amount				1,377,331				
21	Step 1 Revenue Increase Allowed (If Line 19 > Line 20, Line 20 oth	erwise Li	ne 19)		\$ 1,303,839				
22	Record Request Calculated Change in Revenue Requirement							\$ 937,015	\$ 937,015

(1) Beginning utility plant corresponds to Schedule RevReq-4, Column 5, Line 1

- (2) Excludes \$577,144 of post-test year adjustments included in DE 21-030 Schedule RevReq-4-4 as well as \$621,950 of additions closed to plant in service after 2/28/2021
- (3) Beginning accumulated depreciation corresponds to Schedule RevReq-4, Column 5, Line 2
- (4) Refer to Schedule CGKS-1
- (5) Refer to DE 21-030 Settlement Attachment 1, Schedule RevReq 3-16 P2 Revised, Col 8, Line 36
- (6) Property Taxes shall include State utility property taxes for all Non-Growth Plant Additions, calculated using the statutory tax rate in RSA 83-F:2, currently \$6.60 per \$1,000 of investment. Local property taxes shall not be included in the calculation and will be recovered through the Company's External Delivery Charge

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UNITIL ENERGY SYSTEMS, INC. DEPRECIATION ANNUALIZATION 12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-16 Page 1 of 3

	(1)	(2)	(3)	(4)	(5)	(6) LESS ITEMS	(7) DEPRECIABLE PLANT	(8)	(9)
		PLANT		LESS		CHARGED TO	CHARGED TO	CURRENT	ANNUAL
LINE NO.	DESCRIPTION	BALANCE 12/31/2020	ADJUSTMENTS	NON Depreciable	DEPRECIABLE PLANT	CLEARING ACCOUNT	DEPRECIATION EXPENSE	DEPRECIATION RATES	PROFORMED EXPENSE
			7.20001		,	7.0000			
1	Intangible Plant	.	20 6	.	•	•	^	11/A	N1/A
2	301-Organization	•	30 \$ -	\$ 380	\$ -		\$ -	N/A	N/A
3 4	303-Misc Intangible Plant Total Intangible Plant	21,916,84 21,917,22		21,916,840 21,917,220	-		<u>-</u>	N/A N/A	N/A N/A
5	Other Production Plant:								
6	343-Movers	56,5	75 -	_	56,575	_	56,575	6.67%	3,774
7	Total Other Production Plant	56,5			56,575		56,575		3,774
8	Distribution Plant								
9	360-Land & Land Rights	2,677,47	72 -	2,677,472	-	_	-	N/A	N/A
10	361-Structures & Improvements	2,173,6		_,e,	2,173,616	-	2,173,616		53,254
11	362-Station Equipment	50,412,13		-	50,412,132	-	50,412,132		1,310,715
12	364-Poles, Towers & Fixtures	75,140,80		-	75,140,861	_	75,140,861	3.70%	2,780,212
13	365-Overhead Conductors & Devices	92,313,72		-	92,313,723	-	92,313,723	3.64%	3,360,220
14	366-Underground Conduit	2,587,9		-	2,587,958	_	2,587,958	2.04%	52,794
15	367-Underground Conductors & Devices	23,862,90		-	23,862,963	-	23,862,963	2.55%	608,506
16	368.0-Line Transformers	29,259,30		-	29,259,308	-	29,259,308		877,779
17	368.1-Line Transformer Installations	25,947,04		-	25,947,042	-	25,947,042		749,870
18	369-Services	25,642,63	- 32	-	25,642,632	-	25,642,632		1,453,937
19	370.0-Meters	11,764,00	62 -	-	11,764,062	-	11,764,062	5.00%	588,203
20	370.1-Meter Installations	7,165,70	65 -	-	7,165,765	-	7,165,765	5.00%	358,288
21	371-Installations On Customer Premises	2,404,30	67 -	-	2,404,367	-	2,404,367	7.56%	181,770
22	373-Street Lighting & Signal Systems	3,580,9	54 -	-	3,580,954	-	3,580,954	7.79%	278,956
23	Total Distribution Plant	354,932,85	57 -	2,677,472	352,255,384	-	352,255,384	3.59%	12,654,504
24	General Plant								
25	389-General & Misc. Structure (1)	1,363,29	95 (9,679)	1,353,616	-	-	-	N/A	N/A
26	390-Structures (1)	19,114,20	62 (482,234)	-	18,632,028	_	18,632,028	2.08%	387,546
27	391.1-Office Furniture & Equipment	1,289,87	, ,	-	1,366,184	-	1,366,184		79,649
28	391.3-Computer Equipment			-	-	-	-	N/A	N/A
29	392-Transportation Equip	1,073,5	17 -	-	1,073,517	1,073,517	-	N/A	N/A
30	393-Stores Equip	90,6	57 4,536	-	95,192	-	95,192	3.36%	3,198
31	394-Tools, Shop & Garage Eq	2,429,89	92 -	-	2,429,892	-	2,429,892	3.64%	88,448
32	395-Laboratory Equipment	948,5		-	948,530	-	948,530	3.90%	36,993
33	397-Communication Equip	5,005,50	- 68	-	5,005,568	-	5,005,568	6.60%	330,367
34	398-Miscellaneous Equip	102,94	- 43	-	102,943	-	102,943	4.88%	5,024
35	Total General Plant	31,418,54	41 (411,070)	1,353,616	29,653,855	1,073,517	28,580,338	3.26%	931,225
36	Total Plant in Service	\$ 408,325,19	92 \$ (411,070)	\$ 25,948,308	\$ 381,965,814	\$ 1,073,517	\$ 380,892,297	3.57%	\$ 13,589,503
37	Test Year Expense							_	12,680,791
38	Increase (Decrease) In Depreciation Expens	е						=	\$ 908,712

<u>Notes</u>

(1) Refer to Schedule RevReq-4-3 and Schedule RevReq-4-4

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			Regular	Large		
Line #	Year	Residential	General	General	Total	Source
1	2017	394	45	3		RR-1 Attachment 4 (NHPUC RR 1-4, Page 1 of 1)
2	2018	333	10	3		RR-1 Attachment 4 (NHPUC RR 1-4, Page 1 of 1)
3	2019	432	67	4		RR-1 Attachment 4 (NHPUC RR 1-4, Page 1 of 1)
4	2020	589	50	1		RR-1 Attachment 4 (NHPUC RR 1-4, Page 1 of 1)
5	2021	376	66	0		RR-1 Attachment 4 (NHPUC RR 1-4, Page 1 of 1)
6	5 Year Average	425	48	2	•	Average (Line1:Line 5)
7	_					
8	Approved Annual Revenue Per Customer ("RPC")	\$524	\$1,697	\$49,705		RR-1 Attachment 5 (DE 21-030 Revised Settlement Attachment 05, Page 3 of 7)
9	.,					
10	5 Year (17 to 21) Average Forecasted Growth Revenues	\$222 421	\$80 781	\$109 351	\$412 553	Line 6 x Line 8

REQUEST:

For each of the years 2010 to 2021, please provide the number of meters added and the total load by customer class.

RESPONSE:

Please see NHPUC RR 1-4 Attachment 1.

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UNITIL ENERGY SYSTEMS, INC. CUSTOMERS AND LOAD BY CLASS

		Meters Added (Ye	ear End Count)		
<u>Year</u>	Residential	Regular General	Large General	Outdoor Lighting	Total Added
2010	85	6	1		92
2011	392	36	1		429
2012	196	2	0		198
2013	413	55	3		471
2014	335	41	-4		372
2015	309	37	12		358
2016	745	15	-5		755
2017	394	45	3		442
2018	333	10	3		346
2019	432	67	4		503
2020	589	50	1		640
2021	376	66	0		442

		Annual Bille	ed kWh		
<u>Year</u>	<u>Residential</u>	Regular General	Large General	Outdoor Lighting	<u>Total</u>
2010	503,059,979	349,952,434	361,350,326	8,737,182	1,223,099,921
2011	502,913,610	348,992,617	356,687,094	8,717,916	1,217,311,237
2012	500,649,672	350,613,952	353,279,634	8,482,855	1,213,026,113
2013	510,973,377	350,104,263	352,930,286	8,443,095	1,222,451,021
2014	509,757,090	356,363,559	350,668,162	8,465,637	1,225,254,448
2015	497,875,828	354,161,409	353,924,391	8,241,452	1,214,203,080
2016	484,321,778	344,979,399	354,467,482	8,163,499	1,191,932,158
2017	484,341,433	344,622,765	351,603,663	8,073,290	1,188,641,151
2018	510,593,306	356,352,653	349,430,148	8,060,761	1,224,436,868
2019	483,929,101	342,782,066	327,838,600	7,942,212	1,162,491,979
2020	515,968,592	317,056,821	319,767,459	7,625,729	1,160,418,601
2021	519,505,933	326,016,613	328,210,941	6,838,225	1,180,571,712

		Annual Billed	Demand		
<u>Year</u>	Residential	Regular General	Large General	Outdoor Lighting	<u>Total</u>
2010		1,337,879	1,006,832		2,344,711
2011		1,330,760	1,003,092		2,333,852
2012		1,343,764	996,106		2,339,870
2013		1,350,053	1,008,519		2,358,572
2014		1,347,964	1,025,905		2,373,869
2015		1,348,556	1,022,851		2,371,408
2016		1,333,213	1,025,300		2,358,513
2017		1,341,183	1,032,032		2,373,215
2018		1,348,376	1,066,069		2,414,445
2019		1,316,550	1,021,630		2,338,180
2020		1,234,533	1,000,282		2,234,815
2021		1,283,684	1,005,819		2,289,503

Revised Settlement Attachment 5 Page 1 of 7

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Unitil Energy Systems, Inc. Decoupling Target Distribution Revenues

Distribution Revenues		Effective
	Ju	une 1, 2022 ⁽¹⁾
Test Year Distribution Revenues	\$	58,058,225
Permanent Rate Increase		5,880,781
Distribution Revenues	\$	63,939,006
Step Increase (1)		
Target Distribution Revenues	\$	63,939,006
raiget distribution nevenues	Ą	03,939,000
Less: Street lighting		Effective
3 2 3	Ju	une 1, 2022 ⁽¹⁾
Test Year Distribution Revenues	\$	1,823,495
Rate Increase		345
Distribution Revenues	\$	1,823,840
Step Increase (1)		-
Target Distribution Revenues	\$	1,823,840
Distribution Revenues		Effective
For Decoupling	Ju	une 1, 2022 ⁽¹⁾
Test Year Distribution Revenues	\$	56,234,730
Rate Increase		5,880,437
Distribution Revenues	\$	62,115,167
Step Increase (1)		<u>-</u>
Target Distribution Revenues	\$	62,115,167

Notes:

(1) Revenue increase reflects increase of \$5,883,395 per Order No. 26,625

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Revised Settlement Attachment 5

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Unitil Energy Systems, Inc. Decoupling Target Revenues by Class

Distribution Revenues (1)	F	Residential		Re	gular General			Large General			Lighting		
June 1, 2022-May 31, 2023 ⁽²⁾	D		G2	G2 - kWh Meter		QRWH	G1		OL ⁽⁴⁾		Total		
Test Year Distribution Revenues	\$	31,581,996	\$ 16,655,236	\$	87,374	\$	173,710	\$	7,736,414	\$	1,823,495	\$	58,058,225
Rate Increase		3,998,757	1,271,568		6,673		13,271		590,167		345		5,880,781
Distribution Revenues ⁽³⁾	\$	35,580,753	\$ 17,926,804	\$	94,048	\$	186,981	\$	8,326,581	\$	1,823,840	\$	63,939,006
Add: Step Increase		-	-		-		-		-		-		-
Target Distribution Revenues	\$	35,580,753	\$ 17,926,804	\$	94,048	\$	186,981	\$	8,326,581	\$	1,823,840	\$	63,939,006

Notes:

- (1) Excludes Other Operating Revenues
- (2) Revenue increase reflects increase of \$5,883,395 per Order No. 26,625
- (3) Refer to Revised Settlement Attachment Attachment 7
- (4) Outdoor Lighting is excluded from Decoupling

Revised Settlement Attachment 5

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Unitil Energy Systems, Inc. Decoupling

Target Revenue Per Customer (June 1, 2022 - May 31, 2023) (1)

Effective June 1, 2022-May 31, 2023 ⁽¹⁾	F	Residential			Re	gular General			La	rge General		Lighting	
Target Distribution Revenues		D		G2	G	2 - kWh Meter		QRWH		G1		OL	Total
June	\$	2,977,460	Ś	1,532,657	Ś	7,729	\$	10,077	\$	718,265	Ś	152,547 \$	5,398,73
July	7	3,427,015	7	1,627,847	7	7,761	,	12,660	•	736,833	7	152,541	5,964,65
August		3,613,997		1,674,049		7,760		14,401		749,579		152,485	6,212,27
September		3,075,550		1,622,877		7,743		12,367		721,686		151,956	5,592,18
October		2,493,915		1,533,596		7,640		8,728		691,708		150,741	4,886,32
November		2,613,020		1,444,495		7,645		12,073		672,707		150,293	4,900,23
December		3,047,632		1,426,434		7,806		18,367		660,290		149,533	5,310,06
January		3,161,471		1,479,156		8,203		25,526		676,113		153,514	5,503,98
February		2,968,447		1,473,708		8,097		24,323		672,334		152,720	5,299,62
March		2,899,613		1,484,957		8,083		22,105		677,566		152,748	5,245,07
April		2,686,994		1,314,403		7,849		14,893		673,322		152,723	4,850,18
May		2,615,638		1,312,624		7,732		11,461		676,176		152,038	4,775,66
12ME May	\$	35,580,753	\$	17,926,804	\$	94,048	\$	186,981	\$	8,326,581	\$	1,823,840 \$	63,939,00

Effective June 1, 2022-May 31, 2023 (1)	Residential		Regular General		Large General	Lighting	
Test Year Bills	D	G2	G2 - kWh Meter	QRWH	G1	OL	Total
June	68,499	10,629	378	258	168	1,550	81,482
July	68,707	10,621	379	258	168	1,549	81,682
August	68,629	10,663	377	256	169	1,548	81,642
September	69,456	10,707	377	257	168	1,546	82,511
October	68,246	10,628	379	257	168	1,546	81,224
November	67,875	10,548	375	255	168	1,543	80,764
December	67,567	10,520	372	252	167	1,542	80,420
January	67,012	10,479	382	262	166	1,553	79,854
February	66,947	10,469	382	260	166	1,557	79,781
March	67,134	10,470	383	260	167	1,555	79,969
April	67,032	10,472	380	258	167	1,552	79,861
May	68,175	10,506	379	256	168	1,551	81,035
12ME May	815,280	126,712	4,543	3,089	2,010	18,592	970,226

Effective June 1, 2022-May 31, 2023 (1)	Re	esidential		Reg	ular General		Lar	ge General
Monthly Revenue Per Customer	D		G2		- kWh Meter	QRWH		G1
June	\$	43.47	\$ 144.20	\$	20.45	\$ 39.06	\$	4,275.39
July	\$	49.88	\$ 153.27	\$	20.48	\$ 49.07	\$	4,385.91
August	\$	52.66	\$ 157.00	\$	20.58	\$ 56.25	\$	4,435.38
September	\$	44.28	\$ 151.57	\$	20.54	\$ 48.12	\$	4,295.75
October	\$	36.54	\$ 144.30	\$	20.16	\$ 33.96	\$	4,117.31
November	\$	38.50	\$ 136.94	\$	20.39	\$ 47.35	\$	4,004.21
December	\$	45.11	\$ 135.59	\$	20.98	\$ 72.89	\$	3,953.83
January	\$	47.18	\$ 141.15	\$	21.47	\$ 97.43	\$	4,072.97
February	\$	44.34	\$ 140.77	\$	21.20	\$ 93.55	\$	4,050.21
March	\$	43.19	\$ 141.83	\$	21.10	\$ 85.02	\$	4,057.28
April	\$	40.09	\$ 125.52	\$	20.66	\$ 57.73	\$	4,031.87
May	\$	38.37	\$ 124.94	\$	20.40	\$ 44.77	\$	4,024.86

Notes:

(1) The Company has only reflected base rate increase and will file impact of step increase for effect June 1, 2022 in DE 22-026

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Unitil Energy Systems, Inc. Monthly Revenue at June 1, 2022 Rates (1)

Line														
No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
					'	,				'				
1	Residential - D													
2	Test Year Consumers	67,012	66,947	67,134	67,032	68,175	68,499	68,707	68,629	69,456	68,246	67,875	67,567	815,280
3	Test Year kWh	47,877,662	43,447,320	41,788,394	36,919,734	34,845,155	43,074,211	53,371,480	57,715,834	44,979,721	32,009,393	34,896,989	45,042,699	515,968,592
4														
5	April 1, 2022 Rates													
6	Customer Charge	\$16.22	\$16.22	\$16.22	\$16.22	\$16.22	\$16.22	\$16.22	\$16.22	\$16.22	\$16.22	\$16.22	\$16.22	
7	Energy Charge	\$0.04333	\$0.04333	\$0.04333	\$0.04333	\$0.04333	\$0.04333	\$0.04333	\$0.04333	\$0.04333	\$0.04333	\$0.04333	\$0.04333	
8														
9	Revenue													
10	Customer Charge	\$1,086,932	\$1,085,874	\$1,088,921	\$1,087,262	\$1,105,797	\$1,111,055	\$1,114,429	\$1,113,170	\$1,126,579	\$1,106,948	\$1,100,934		\$13,223,834
11	Energy Charge	\$2,074,539	\$1,882,572	\$1,810,691	\$1,599,732	\$1,509,841	\$1,866,406	\$2,312,586	\$2,500,827	\$1,948,971	\$1,386,967	\$1,512,087		\$22,356,919
12	Total Revenue	\$3,161,471	\$2,968,447	\$2,899,613	\$2,686,994	\$2,615,638	\$2,977,460	\$3,427,015	\$3,613,997	\$3,075,550	\$2,493,915	\$2,613,020	\$3,047,632	\$35,580,753
13														
14														
15	Small General Service - G2 kWh													
16	Test Year Consumers	382	382	383	380	379	378	379	377	377	379	375	372	4,543
17	Test Year kWh	49,142	44,733	43,401	35,971	31,861	32,502	33,066	34,562	33,864	28,015	31,317	40,310	438,744
18														
19	April 1, 2022 Rates			_		_					_	_		
20	Customer Charge	\$18.38	\$18.38	\$18.38	\$18.38	\$18.38	\$18.38	\$18.38	\$18.38	\$18.38	\$18.38	\$18.38	\$18.38	
21	Energy Charge	\$0.02404	\$0.02404	\$0.02404	\$0.02404	\$0.02404	\$0.02404	\$0.02404	\$0.02404	\$0.02404	\$0.02404	\$0.02404	\$0.02404	
22	_													
23	Revenue	A7 004	#7 004	07 040	00.004	# 0.000	# 0.040	# 0.000	Ф0 000	Ф0 000	A 0.000	A 0.000	#0.007	# 00 F 00
24	Customer Charge	\$7,021	\$7,021	\$7,040	\$6,984	\$6,966	\$6,948	\$6,966	\$6,929	\$6,929	\$6,966	\$6,893	\$6,837	\$83,500
25	Energy Charge Total Revenue	\$1,181	\$1,075	\$1,043	\$865	\$766	\$781 \$7,730	\$795 \$7.764	\$831	\$814	\$673	\$753 \$7,645	\$969	\$10,547
26	Total Revenue	\$8,203	\$8,097	\$8,083	\$7,849	\$7,732	\$7,729	\$7,761	\$7,760	\$7,743	\$7,640	\$7,645	\$7,806	\$94,048
27														
28	Small General Service - G2 QR WH /SI													
29	Test Year Consumers	1 262	260	260	258	256	258	258	256	257	257	255	252	2.000
30	Test Year kWh	656,472	622,649	559,298	353,793	256,299	216,185	289,997	340,290	281,883	177,928	274,066	454,719	3,089 4,483,579
31 32	rest real KWII	030,472	022,049	559,296	333,193	250,299	210,100	209,997	340,290	201,003	177,920	274,000	454,719	4,465,579
33	April 1, 2022 Rates													
34	Customer Charge	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	
35	Energy Charge	\$0.03500	\$0.03500	\$0.03500	\$0.03500	\$0.03500	\$0.03500	\$0.03500	\$0.03500	\$0.03500	\$0.03500	\$0.03500	\$0.03500	
36	Energy onargo	ψυ.υυυυ	ψυ.υυυυ	ψυ.υυυυυ	ψυ.υυυυ	ψυ.υυυυ	ψ0.00000	ψυ.υυυυ	ψ0.00000	ψυ.υυυυ	ψυ.υυυυ	ψυ.υυυυ	ψ0.00000	
37	Revenue													
38	Customer Charge	\$2,549	\$2,530	\$2,530	\$2,510	\$2,491	\$2,510	\$2,510	\$2,491	\$2,501	\$2,501	\$2,481	\$2,452	\$30,056
39	Energy Charge	\$22,977	\$21,793	\$19,575	\$12,383	\$8,970	\$7,566	\$10,150	\$11,910	\$9,866	\$6,227	\$9,592	\$15,915	156,925
40	Total Revenue	\$25,526	\$24,323	\$22,105	\$14,893	\$11,461	\$10,077	\$12,660	\$14,401	\$12,367	\$8,728	\$12,073	\$18,367	\$186,981
41	=	Ψ=0,020	Ψ= 1,020	Ψ_L, 100	ψ. 1,000	ψ.1,101	ψ.ο,ο	4.2,000	ψ. 1, 101	ψ.Σ,σσι	Ψ0,120	ψ.2,0.0	\$ 10,001	ψ.30,001
71														

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Unitil Energy Systems, Inc. Monthly Revenue at June 1, 2022 Rates ⁽¹⁾

Line														
No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
42					-					-				
43	Small General Service - G2 Demand													
44	Test Year Consumers	10,479	10,469	10,470	10,472	10,506	10,629	10,621	10,663	10,707	10,628	10,548	10,520	126,712
45	Test Year kW	101,780	101,342	102,389	87,511	87,319	106,029	114,306	118,215	113,730	106,201	98,603	97,109	1,234,532
46	Test Year kWh	29,121,178	28,684,028	28,061,068	21,033,411	20,197,196	25,493,967	29,616,140	30,665,177	28,590,103	22,317,914	22,648,750	25,705,566	312,134,498
47														
48	April 1, 2022 Rates													
49	Customer Charge	\$29.19	\$29.19	\$29.19	\$29.19	\$29.19	\$29.19	\$29.19	\$29.19	\$29.19	\$29.19	\$29.19	\$29.19	
50	Demand Charge	\$11.54	\$11.54	\$11.54	\$11.54	\$11.54	\$11.54	\$11.54	\$11.54	\$11.54	\$11.54	\$11.54	\$11.54	
51	Energy Charge	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
52														
53	Revenue													
54	Customer Charge	\$305,882	\$305,590	\$305,617	\$305,678	\$306,670	\$310,261	\$310,025	\$311,248	\$312,535	\$310,231	\$307,908	\$307,079	\$3,698,724
55	Demand Charge	\$1,174,542	\$1,169,484	\$1,181,567	\$1,009,873	\$1,007,665	\$1,223,569	\$1,319,096	\$1,364,196	\$1,312,442	\$1,225,555	\$1,137,874	\$1,120,638	\$14,246,502
56	Energy Charge	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
57	Total Revenue	\$1,480,424	\$1,475,074	\$1,487,183	\$1,315,551	\$1,314,335	\$1,533,829	\$1,629,121	\$1,675,445	\$1,624,977	\$1,535,786	\$1,445,782	\$1,427,717	\$17,945,225
58	-													
59														
60	Large General Service - G1													
61	Test Year Consumers - Secondary	133	133	134	134	135	135	135	136	135	135	135	135	1,615
62	Test Year Consumers - Primary	33	33	33	33	33	33	33	33	33	33	33	32	395
63	Test Year kVA	81,206	80,761	81,372	80,864	81,179	86,341	88,631	90,184	86,802	83,069	80,708	79,165	1,000,283
64	Test Year kWh	27,162,976	27,360,368	27,375,056	23,199,379	23,230,381	27,500,834	29,386,736	29,935,971	29,722,799	24,642,676	24,432,498	25,817,785	319,767,459
65														
66	April 1, 2022 Rates													
67	Customer Charge - Secondary	\$162.18	\$162.18	\$162.18	\$162.18	\$162.18	\$162.18	\$162.18	\$162.18	\$162.18	\$162.18	\$162.18	\$162.18	
68	Customer Charge - Primary	\$86.49	\$86.49	\$86.49	\$86.49	\$86.49	\$86.49	\$86.49	\$86.49	\$86.49	\$86.49	\$86.49	\$86.49	
69	Demand Charge	\$8.19	\$8.19	\$8.19	\$8.19	\$8.19	\$8.19	\$8.19	\$8.19	\$8.19	\$8.19	\$8.19	\$8.19	
70	Energy Charge	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
71														
72	Revenue													
73	Customer Charges	\$24,424	\$24,424	\$24,586	\$24,586	\$24,748	\$24,748	\$24,748	\$24,911	\$24,748	\$24,748	\$24,748	\$24,662	\$296,084
74	Demand Charge	\$665,078	\$661,432	\$666,438	\$662,279	\$664,855	\$707,136	\$725,889	\$738,609	\$710,909	\$680,338	\$660,996	\$648,361	\$8,192,320
75	Energy Charge	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
76	Total Revenue	\$689,502	\$685,856	\$691,025	\$686,865	\$689,604	\$731,885	\$750,637	\$763,520	\$735,658	\$705,087	\$685,745	\$673,023	\$8,488,404
77	-													

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Unitil Energy Systems, Inc. Monthly Revenue at June 1, 2022 Rates (1)

Line														
No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
78														
79	Transformer Ownership													
80	G1-kVA													
81	Test Year kVA	26,778	27,043	26,917	27,086	26,855	27,239	27,609	27,883	27,943	26,757	26,075	25,464	323,647
82														
83	April 1, 2022 Rates													
84	Credit	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	
85														
86	Revenue													
87	Tranf Ownership Credit	(\$13,389)	(\$13,522)	(\$13,458)	(\$13,543)	(\$13,427)	(\$13,620)	(\$13,804)	(\$13,941)	(\$13,971)	(\$13,378)	(\$13,037)	(\$12,732)	(\$161,824)
88	Total Ownership Credit	(\$13,389)	(\$13,522)	(\$13,458)	(\$13,543)	(\$13,427)	(\$13,620)	(\$13,804)	(\$13,941)	(\$13,971)	(\$13,378)	(\$13,037)	(\$12,732)	(\$161,824)
89														
90														
91	Transformer Ownership													
92	G2-kW													
93	Test Year kW	2,536	2,733	4,452	2,297	3,421	2,344	2,548	2,792	4,200	4,380	2,575	2,565	36,843
94														
95	April 1, 2022 Rates													
96	Credit	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	(\$0.50)	
97														
98	Revenue													
99	Tranf Ownership Credit	(\$1,268)	(\$1,366)	(\$2,226)	(\$1,148)	(\$1,711)	(\$1,172)	(\$1,274)	(\$1,396)	(\$2,100)	(\$2,190)	(\$1,288)	(\$1,283)	(\$18,421)
100	Total Ownership Credit	(\$1,268)	(\$1,366)	(\$2,226)	(\$1,148)	(\$1,711)	(\$1,172)	(\$1,274)	(\$1,396)	(\$2,100)	(\$2,190)	(\$1,288)	(\$1,283)	(\$18,421)

102							
103	Summary		_		Test Year		_
104		_	# Custs	kW	kVA	kWh	Calculated Rev.
105	Residential - D	_	815,280			515,968,592	\$35,580,753
106	Small General Service - G2 kWh		4,543			438,744	\$94,048
107	Small General Service - G2 QR WH /SH		3,089			4,483,579	\$186,981
108	Small General Service - G2 Demand		126,712	1,234,532		312,134,498	\$17,945,225
109	Large General Service - G1		1,615		1,000,283	319,767,459	\$8,488,404
110	Transformer Ownership			36,843	323,647		(\$180,245)
111	Street Lighting	Luminaires	108,600			7,625,729	\$1,823,840
112	Total	_	1.059.839	1.271.375	1,323,931	1.160.418.601	\$63,939,006

Notes:

101

(1) The Company has only reflected base rate increase and will file impact of step increase for effect June 1, 2022 in DE 22-026

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UES June 1, 2022 Rates ⁽¹⁾

	<u>Class</u>		Distribution <u>Charge</u>
1	D	Customer Charge	\$16.22
2			
3		All 250 kWh	\$0.04333
4			
5	G2	Customer Charge	\$29.19
6			
7		All kW	\$11.54
8		A II 1.3 A / I-	# 0.00000
9 10		All kWh	\$0.00000
11	G2 - kWh meter	Customer Charge	\$18.38
12	02	o dotomor o mango	ψ.σ.σσ
13		All kWh	\$0.02404
14			
15	G2 - Quick Recovery Water	Customer Charge	\$9.73
16	Heat and/or Space Heat		•
17		All kWh	\$0.03500
18	04	Overtenness Objects Objects Inc.	#400.40
19	G1	Customer Charge Secondary	\$162.18
20		Customer Charge Primary	\$86.49
21		A II 1 1 / A	00.40
22		All kVA	\$8.19
23		A II 14/A/In	# 0.00000
24		All kWh	\$0.00000

Notes

(1) The Company has only reflected base rate increase and will file impact of step increase for effect June 1, 2022 in DE 22-026