

**Unitil Energy System, Inc.
System Benefits Charge ("SBC") Calculation**

Unitil Energy Systems, Inc.
UES Attachment 1
Page 1 of 4

Year	Current SBC Rate EE Portion (\$/kWh)	Inflation Factor (%)	Proposed SBC Rate EE Portion (\$/kWh)	SBC Rate EAP Portion (\$/kWh)	SBC Rate LBR Portion (\$/kWh)	(Jan 1, 2023) Total SBC Rate (\$/kWh)
Col. A	Col. B	Col. C	Col. D	Col. E	Col. F	Col. G
2023	\$0.00528	4.247%	\$0.00550	\$0.00150	\$0.00000	\$0.00700

Col. A: Rate Effective year, January - December 2023

Col. B: Current EE portion of SBC

Col. C: Inflation factor provided by Department of Energy, in accordance with HB 549

Col. D: Current EE increased by infation factor

Col. E: EAP portion of SBC Rate

Col. F: LBR portion of SBC, Transition to Decoupling effective June 1, 2022 in accordance with DE 21-030, Order No. 26,623.
Remaining balance to be reconciled in 2022 Annual Report with proposal for recovery of any over/under collection.

Col. G: Total SBC proposed for effect January 1, 2023.

Unitil Energy System, Inc.
Energy Efficiency Expense & SBC Revenue Reconciliation
January 1, 2021 to December 31, 2021

Unitil Energy Systems, Inc.
UES Attachment 1
Page 2 of 4

	Jan-21 Actual	Feb-21 Actual	Mar-21 Actual	Apr-21 Actual	May-21 Actual	Jun-21 Actual	Jul-21 Actual	Aug-21 Actual	Sep-21 Actual	Oct-21 Actual	Nov-21 Actual	Dec-21 Actual	Total
1 Beginning Balance -- (Over)/Under Recovery	\$ (707,478)	\$ (1,086,203)	\$ (1,219,571)	\$ (1,363,431)	\$ (1,583,356)	\$ (1,425,710)	\$ (1,440,817)	\$ (1,372,596)	\$ (869,902)	\$ (896,046)	\$ (940,015)	\$ (831,335)	
2 Total Costs	203,700	518,013	458,355	276,070	656,943	636,513	781,208	1,152,636	615,081	535,073	599,929	1,647,715	\$ 8,081,236
Revenues													
3 Class Sales (Residential inc. LI) -- kWh	48,326,828	47,028,445	47,108,539	34,853,776	33,843,374	43,474,063	50,786,739	50,902,470	49,549,260	34,598,039	34,569,087	44,465,313	519,505,933
4 Class Sales (C&I inc. OL) -- kWh	52,452,328	53,697,455	57,095,223	49,176,564	50,741,222	57,700,733	61,219,095	62,693,684	62,201,446	51,950,150	48,656,465	53,481,414	661,065,779
5 Total Sales - kWh	100,779,156	100,725,900	104,203,762	84,030,340	84,584,596	101,174,796	112,005,834	113,596,154	111,750,706	86,548,189	83,225,552	97,946,727	1,180,571,712
6 Charge -- \$/kWh	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	
7 Energy Efficiency Revenues	\$ 532,500	\$ 532,244	\$ 551,201	\$ 444,611	\$ 447,489	\$ 535,167	\$ 592,342	\$ 600,817	\$ 591,087	\$ 457,874	\$ 440,397	\$ 517,867	\$ 6,243,595
8 Forward Capacity Market Revenue	\$ 47,453	\$ 47,453	\$ 47,453	\$ 47,453	\$ 47,661	\$ 47,836	\$ 45,948	\$ 46,035	\$ 47,783	\$ 47,360	\$ 48,489	\$ 44,301	\$ 565,223
9 RGGI Funding	\$ -	\$ 68,813	\$ -	\$ -	\$ -	\$ 71,278	\$ 71,278	\$ -	\$ -	\$ 71,278	\$ -	\$ -	\$ 282,648
10 Other Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11 Total Revenues	\$ 579,953	\$ 648,510	\$ 598,654	\$ 492,064	\$ 495,150	\$ 654,280	\$ 709,568	\$ 646,851	\$ 638,870	\$ 576,512	\$ 488,886	\$ 562,168	\$ 7,091,466
12 (Over)/Under Recovery (excluding interest)	\$ (1,083,731)	\$ (1,216,701)	\$ (1,359,871)	\$ (1,579,425)	\$ (1,421,562)	\$ (1,443,477)	\$ (1,369,176)	\$ (866,811)	\$ (893,691)	\$ (937,485)	\$ (828,972)	\$ 254,213	
Interest Calculation													
13 Average Monthly Balance	\$ (895,605)	\$ (1,151,452)	\$ (1,289,721)	\$ (1,471,428)	\$ (1,502,459)	\$ (1,434,593)	\$ (1,404,996)	\$ (1,119,703)	\$ (881,796)	\$ (916,765)	\$ (884,493)	\$ (288,561)	
14 Interest Rate	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	
15 Days per Month	31	28	31	30	31	30	31	31	30	31	30	31	365
16 Computed Interest	\$ (2,472)	\$ (2,871)	\$ (3,560)	\$ (3,931)	\$ (4,147)	\$ 2,660 (1)	\$ (3,420)	\$ (3,091)	\$ (2,355)	\$ (2,531)	\$ (2,363)	\$ (797)	\$ (28,876)
17 Ending Balance	\$ (1,086,203)	\$ (1,219,571)	\$ (1,363,431)	\$ (1,583,356)	\$ (1,425,710)	\$ (1,440,817)	\$ (1,372,596)	\$ (869,902)	\$ (896,046)	\$ (940,015)	\$ (831,335)	\$ 253,416	

(1) Includes prior period PI true-up plus interest.
Line 1: Prior period ending balance
Line 2: Actual costs
Lines 3 & 4: Company Forecast
Line 5: Line 3 + Line 4
Line 6: Rates in effect. February weighted average rate.
Line 7: Actual revenue. Line 3 * Line 4 in forecast months.
Line 8: Actual data
Line 9:
Line 10:
Line 11: Sum Lines 7-10
Line 12: Line 1 + Line 2 - Line 11
Line 13: (Line 1 + Line 12)/2
Line 14: Prime Rate
Line 16: Line 13 * ((Line 14/# days per year) * Line 15))
Line 17: Line 12 + Line 16

Unitil Energy System, Inc.
Energy Efficiency Expense & SBC Revenue Preliminary Reconciliation
January 1, 2022 to December 31, 2022

Unitil Energy Systems, Inc.
UES Attachment 1
Page 3 of 4

	Jan-22 <u>Actual</u>	Feb-22 <u>Actual</u>	Mar-22 <u>Actual</u>	Apr-22 <u>Actual</u>	May-22 <u>Actual</u>	Jun-22 <u>Actual</u>	Jul-22 <u>Actual</u>	Aug-22 <u>Actual</u>	Sep-22 <u>Actual</u>	Oct-22 <u>Actual</u>	Nov-22 <u>Estimate</u>	Dec-22 <u>Estimate</u>	Total
1 Beginning Balance -- (Over)/Under Recovery	\$ 253,416	\$ (198,154)	\$ (517,641)	\$ (766,051)	\$ (928,283)	\$ (1,116,053)	\$ (1,199,897)	\$ (1,612,718)	\$ (1,903,667)	\$ (2,021,076)	\$ (1,920,725)	\$ (950,165)	
2 Total Costs	144,072	128,041	305,591	399,007	309,791	\$ 473,887 (1)	277,151	423,427	482,187	644,901	1,460,532	1,460,532	\$ 6,509,119
Revenues													
3 Class Sales (Residential inc. LI) -- kWh	51,683,735	47,617,490	43,276,594	35,040,709	33,992,121	38,566,936	48,304,885	59,834,960	44,576,312	32,241,631	37,850,672	42,559,993	515,546,038
4 Class Sales (C&I inc. OL) -- kWh	56,107,347	55,159,275	54,526,942	49,413,819	51,094,503	55,503,489	60,302,167	67,257,935	59,820,400	49,316,003	51,292,508	52,163,076	661,957,464
5 Total Sales - kWh	107,791,082	102,776,765	97,803,536	84,454,528	85,086,624	94,070,425	108,607,052	127,092,895	104,396,712	81,557,634	89,143,180	94,723,069	1,177,503,502
6 Charge -- \$/kWh	\$ 0.00373	\$ 0.00456	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	\$ 0.00528	
7 Energy Efficiency Revenues	\$ 481,434	\$ 403,629	\$ 509,225	\$ 447,173	\$ 450,560	\$ 498,002	\$ 574,907	\$ 672,767	\$ 552,947	\$ 432,195	\$ 470,676	\$ 500,138	\$ 5,993,653
8 Forward Capacity Market Revenue	\$ 43,006	\$ 43,006	\$ 43,006	\$ 43,006	\$ 44,183	\$ 61,335	\$ 41,051	\$ 35,647	\$ 40,209	\$ 33,927	\$ 12,822	\$ 12,822	\$ 454,022
9 RGGI Funding	\$ 71,278	\$ -	\$ -	\$ 69,243	\$ -	\$ -	\$ 69,243	\$ -	\$ -	\$ 69,243	\$ -	\$ -	\$ 279,007
10 Other Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11 Total Revenues	\$ 595,719	\$ 446,636	\$ 552,232	\$ 559,423	\$ 494,743	\$ 559,337	\$ 685,201	\$ 708,413	\$ 593,155	\$ 535,365	\$ 483,498	\$ 512,960	\$ 6,726,683
12 (Over)/Under Recovery (excluding interest)	\$ (198,231)	\$ (516,750)	\$ (764,281)	\$ (926,466)	\$ (1,113,235)	\$ (1,201,502)	\$ (1,607,948)	\$ (1,897,704)	\$ (2,014,635)	\$ (1,911,539)	\$ (943,691)	\$ (2,594)	
Interest Calculation													
13 Average Monthly Balance	\$ 27,593	\$ (357,452)	\$ (640,961)	\$ (846,258)	\$ (1,020,759)	\$ (1,158,777)	\$ (1,403,923)	\$ (1,755,211)	\$ (1,959,151)	\$ (1,966,308)	\$ (1,432,208)	\$ (476,380)	
14 Interest Rate	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	4.00%	4.00%	4.00%	5.50%	5.50%	5.50%	
15 Days per Month	31	28	31	30	31	30	31	31	30	31	30	31	365
16 Computed Interest	\$ 76	\$ (891)	\$ (1,769)	\$ (1,816) (1)	\$ (2,818)	\$ 1,605 (1)	\$ (4,769)	\$ (5,963)	\$ (6,441)	\$ (9,185)	\$ (6,474)	\$ (2,225)	\$ (40,672)
17 Ending Balance	\$ (198,154)	\$ (517,641)	\$ (766,051)	\$ (928,283)	\$ (1,116,053)	\$ (1,199,897)	\$ (1,612,718)	\$ (1,903,667)	\$ (2,021,076)	\$ (1,920,725)	\$ (950,165)	\$ (4,819)	

(1) Includes prior period PI true-up and associated interest adjustments.

Line 1: Prior period ending balance

Line 2: Actual costs/Company budget

Lines 3 & 4: Company Forecast

Line 5: Line 3 + Line 4

Line 6: Rates in effect. February weighted average rate.

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Line 17: Line 12 + Line 16

Bill Impacts of Changes in System Benefits Charge - Unitil Energy Systems, Inc.
Rates Proposed for Effect January 1, 2023

	December 1, 2022	January 1, 2023
System Benefits Charge (\$/kWh) Residential	\$ 0.00681	\$ 0.00700
System Benefits Charge (\$/kWh) C&I	\$ 0.00681	\$ 0.00700
<u>Bill per month, including UES Default Service Charge</u>		
Residential Rate R (625 kWh/month)	\$ 226.55	\$ 226.67
General Service Rate G, three-phase service (40 kW, 10,000 kWh/month)	\$ 3,364.69	\$ 3,366.63
<u>Change from previous rate level - \$ per month</u>		
Residential Rate R (625 kWh/month)		\$ 0.12
General Service Rate G, three-phase service (40 kW, 10,000 kWh/month)		\$ 1.94
<u>Change from previous rate level - %</u>		
Residential Rate R (625 kWh/month)		0.05%
General Service Rate G, three-phase service (40 kW, 10,000 kWh/month)		0.06%