New Hampshire Property Tax Expense Analysis Unitil Energy Systems, Inc.

Docket No. DE 24-077 & 24-080 Revised Schedule DTN-1 Page 1 of 2

	(1)		(2)	(3)	(4)	(5)
Line			Total			
No.	Description	Α	mount	State	Local	Source
1	Jan-Dec 2023 Recovery					
2	Base Rates (June 1, 2021)	\$ 7	7,875,594	\$ 1,656,954	\$ 6,218,640	DE 21-030, Sch. 3-10 Prop Tx Revised
3	Step 1 (Aug 1, 2022)	\$	47,506	\$ 47,506	\$ -	DE 22-026, Second Rev. Sch. CGKS-5, Col (d), Line 17
4	UES 2023 Property Tax Recovery (Jan-Dec)	\$ 7	7,923,101	\$ 1,704,461	\$ 6,218,640	Sum Lines 2-3
5	2023 Property Tax Expense	\$ 8	3,639,868	\$ 1,754,894	\$ 6,884,974	Schedule DTN-1, Page 2 of 2
6	2023 UES Exp. Above Level Recovered in Rates	\$	716,767	\$ 50,433	\$ 666,334	Line 5 - Line 4
7	Local Property Tax Under-Recovery				\$ 666,334	Line 6, Col (4)

New Hampshire Property Tax Expense Analysis Unitil Energy Systems, Inc. 2023 Property Tax Bill Detail

Docket No. DE 24-077 & 24-080 Revised Schedule DTN-1 Page 2 of 2

	(1)		(2)	(3)		(4)	(5)
Line		1	st 2023	2nd 2023		Total 2023	Schedule DTN-2
No.	Description		nstallment	Bill Installment	Ca	lendar Year Exp.	Page Reference
							- ingressioner
1	Allenstown	\$	698.00	\$ 922.00	\$	1,620.00	1, 2
2	Atkinson		48,313.00	54,914.00		103,227.00	3, 4
3	Boscawen		136,984.00	83,222.00		220,206.00	5 - 8
4	Bow		174,964.00	130,925.92		305,889.92	9 - 12
5	Brentwood		1,329.00	1,582.00		2,911.00	13, 14
6	Canterbury		37,995.00	33,380.00		71,375.00	15, 16
7	Chichester		59,107.00	47,728.00		106,835.00	17, 18
8	Concord (2)		1,004,542.96	1,165,387.57		2,169,930.53	19 - 75
9	Concord (Penacook)		192,862.52	216,159.11		409,021.63	77 - 87
10	Danville		55,949.00	87,126.00		143,075.00	88,89
11	Dunbarton		5,554.31	6,156.82		11,711.13	90,91
12	East Kingston		74,325.00	63,500.00		137,825.00	92,93
13	Epsom		53,628.00	54,767.00		108,395.00	94,95
14	Exeter		310,709.25	357,104.93		667,814.18	96 - 107
15	Greenland		220.00	120.00		340.00	108,109
16	Hampstead		2,735.00	2,367.00		5,102.00	110,111
17	HamptonClass 4000		186,708.00	248,559.00		435,267.00	112,113
18	HamptonClass 5000		97,684.00	129,686.00		227,370.00	114,115
19	Hampton Falls		51,697.00	41,488.00		93,185.00	116,117
20	Hopkinton		5,335.00	4,891.00		10,226.00	118,119
21	Kensington (1)		124,858.84	38,068.43		162,927.27	120-123
22	Kingston		191,709.32	226,768.92		418,478.24	124-131
23	Loudon		6,418.00	4,826.00		11,244.00	132,133
24	Newton		77,836.00	94,326.00		172,162.00	134,135
25	North Hampton		574.00	684.00		1,258.00	136,137
26	Pembroke		3,992.00	6,022.00		10,014.00	138,139
27	Plaistow		153,228.00	163,232.00		316,460.00	140 - 147
28	Salisbury		25,475.00	24,100.00		49,575.00	148,149
29	Seabrook		119,232.00	127,848.00		247,080.00	150 - 159
30	South Hampton		40,018.00	9,800.00		49,818.00	160,161
31	Stratham		76,013.00	99,734.00		175,747.00	162,163
32	Webster		22,944.00	15,940.00		38,884.00	164,165
33	Total		•	•	\$	6,884,973.90	•

Notes:

⁽¹⁾ Excludes \$15,443 related to the Kensington DOC

⁽²⁾ Excludes \$146.97 of State Education Tax paid by the Company per UES TS Followup DOE TS-01

External Delivery Costs:	(a) Third Party Transmission Providers (Eversource Network Integration Transmission Service)	(b) Regional Transmission and Operating Entities	(c) Third Party Transmission Providers (Eversource Wholesale Distribution)		(e) Sub-total; Transmission Costs included in the EDC (sum a thru d)	(f) Transmission- based Assessments and Fees	(g) Load Estimation and Reporting System Costs	(h) Unmetered Purchased Power	(i) Data and Information Services	(j) Legal Charges	(k) Consulting Outside Service Charges (UES), and DOE & OCA Consultant Expense	(I) Administrative Service Charges (1)	(m) EDC Portion of the annual PUC Assessment	(n) Net Metering Credits	(o) Net Metering costs	(p) RGGI Auction Proceeds	(q) Excess ADIT 2018-2020	(r) Working Capital associated with Other Flow- Through Operating Expenses - excluding transmission costs (3)	(s) Property Tax	(t) Sub-total Non- Transmission Costs included in the EDC (sum f thru s)	(u) Total EDC Costs (e plus t)
Vendor(s):	Eversource	ISO New England Inc., Regional Transmission Operator, Nepool	Eversource			Federal Energy Regulatory Commission	LOGICA INC. & Energy Services Group, Inc. (ESG)	ISO New England Inc., Regional Transmission Operator	Connecticut Municipal Electric Energy Cooperative			Unitil Power Corp.									
Aug-24 Estimate Sep-24 Estimate Oct-24 Estimate Nov-24 Estimate Jan-25 Estimate Jan-25 Estimate Agr-25 Estimate Apr-25 Estimate Jun-26 Estimate Jun-25 Estimate Jun-25 Estimate Total Aug-24 to Jul-25	\$475,470 \$426,344 \$306,447 \$331,026 \$347,673 \$363,368 \$363,875 \$320,342 \$292,277 \$348,099 \$410,860 \$505,763	\$3,380,112 \$3,036,904 \$2,199,263 \$2,370,983 \$2,487,281 \$2,596,932 \$2,623,171 \$2,296,344 \$2,100,272 \$2,490,259 \$2,928,730 \$3,591,753	\$277,322 \$248,669 \$206,494 \$206,494 \$206,494 \$211,937 \$214,128 \$206,494 \$206,494 \$239,638 \$294,991	(\$3,950) (\$3,548) (\$2,592) (\$2,780) (\$2,907) (\$3,032) (\$3,059) (\$2,698) (\$2,484) (\$2,910) (\$3,421) (\$4,198)	\$4,128,953 \$3,708,369 \$2,709,611 \$2,905,723 \$3,038,540 \$3,169,206 \$3,198,114 \$2,820,482 \$2,596,559 \$3,041,941 \$3,575,808 \$4,388,309	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$32,100 \$32,100 \$32,100 \$32,100 \$32,100 \$32,100 \$32,100 \$32,100 \$32,100 \$32,100 \$32,100 \$32,100 \$32,100	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$1,250 \$1,250 \$1,250 \$1,250 \$1,250 \$1,250 \$1,250 \$1,250 \$1,250 \$1,250 \$1,250 \$1,250 \$1,250 \$1,250	\$0 \$500 \$0 \$0 \$0 \$2,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$875 \$875 \$875 \$875 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$5,000 \$102 \$0 \$0 \$0 \$0	(\$18,016) (\$18,016) (\$18,016) (\$18,016) (\$18,016) (\$18,016) (\$18,016) (\$18,016) (\$18,016) (\$18,016) (\$18,016) (\$18,016) (\$18,016) (\$18,016)	\$606,377 \$606,720 \$607,066 \$607,416 \$607,770 \$608,127 \$608,487 \$609,219 \$609,590 \$610,345	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 (\$1,380,000) \$0 \$0 (\$1,380,000) \$0 (\$1,380,000) \$0 (\$1,380,000) (\$5,520,000)	(\$73,461) (\$73,461) (\$73,461) (\$73,461) (\$73,461) (\$73,461) (\$73,461) (\$73,461) (\$73,461) (\$73,461) (\$73,461) (\$73,461)	\$8,509 \$8,509 \$8,509 \$8,509 \$8,509 \$8,509 \$8,509 \$8,509 \$8,509 \$8,509 \$8,509 \$8,509	\$666,334 (4) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,223,968 \$558,477 (\$821,677) \$558,673 \$558,152 (\$819,491) \$563,869 \$559,335 (\$820,399) \$559,972 \$560,348 (\$808,273)	\$5,352,921 \$4,266,846 \$1,887,935 \$3,464,397 \$3,596,692 \$2,349,714 \$3,761,984 \$3,379,817 \$1,776,160 \$3,601,914 \$4,136,155 \$3,580,035

⁽¹⁾ Breakdown of costs included in the Administrative Service Charge are presented in Schedule JMP-3.
(2) Calculated by multiplying the product of monthly Other Flow-Through Operating Expenses-Transmission Costs Only and (3.80) days lag, divided by 365 days (i.e., the working capital requirement) by UES's tax adjusted cost of capital. Tax adjusted cost of capital is 9.18%. Support for number of days lag is provided in the testimony of Emily L. Anderson.

⁽³⁾ Estimates based on the average of actual data for twelve months ending July 2023, adjusted for days lag. Actuals calculated by multiplying the product of monthly Other Flow-Through Operating Expenses-Excluding Transmission Costs and 36.54 days lag, divided by 365 days (i.e., the working capital requirement) by UES's tax adjusted cost of capital. Tax adjusted cost of capital is 9.18%. Support for number of days lag is provided in the testimony of Emily L. Anderson.

(4) Property Tax \$666,334.07, as provided in the testimony of Daniel T. Nawazelski.

UNITIL ENERGY SYSTEMS. INC. CALCULATION OF THE EXTERNAL DELIVERY CHARGE Effective August 1, 2024

	Calculation of the EDC	Calculation of the EDC/Transmission Only	Calculation of the EDC/Non-Transmission	
1. (Over)/under Recovery - Beginning Balance August 1, 2024	(\$9,746,438)	(\$3,615,731)	(\$6,130,707)	Page 4
2. Estimated Total Costs (August 2024 - July 2025)	\$41,154,570	\$39,281,616	\$1,872,954	Page 4
3. Estimated Wholesale and Wheeling Revenue (August 2024 - July 2025)	\$2,657,840	\$0	\$2,657,840	Page 5
4. Estimated Interest (August 2024 - July 2025)	(\$308,391)	<u>(\$162,502)</u>	<u>(\$145,889)</u>	Page 4
5. Costs to be Recovered (L.1 + L.2 - L.3 + L. 4)	\$28,441,900	\$35,503,382	(\$7,061,482)	
6. Estimated Calendar Month Deliveries in kWh (August 2024 - July 2025) (1)	1,120,026,042	<u>1,120,026,042</u>	<u>1,120,026,042</u>	
7. External Delivery Charge (\$/kWh) (L. 5 / L. 6)	\$0.02539	\$0.03170	(\$0.00631)	
(1) Schedule LSM-2, page 5. August 2024 - July 2025 Billed kWh - July 2024 Unbilled kWh + July 2025 Unbilled kWh Calendar Month Deliveries	1,120,366,307 (51,047,111) <u>50,706,846</u> 1,120,026,042			

		(a)	(b)	(c)	(d) Ending Balance	(e)	(f)	(g) Number of	(h)	(i) Ending Balance
Transmission Costs Only		Beginning Balance	Total Costs	Total Revenue	Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Days / Month	Computed Interest	with Interest (d + h)
Aug-24 Es Sep-24 Es Oct-24 Es Nov-24 Es Dec-24 Es Jan-25 Es Feb-25 Es Mar-25 Es May-25 Es Jun-25 Es	stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate	(\$3,615,731) (\$2,941,631) (\$2,136,298) (\$2,110,280) (\$2,051,335) (\$2,001,505) (\$2,001,505) (\$2,354,407) (\$1,633,152) (\$1,992,726) (\$1,818,186) (\$1,323,486) (\$856,588)	\$4,128,953 \$3,708,369 \$2,709,611 \$2,905,723 \$3,038,540 \$3,169,206 \$3,198,114 \$2,820,482 \$2,596,559 \$3,041,941 \$3,575,808 \$4,388,309	\$3,431,269 \$2,885,359 \$2,668,320 \$2,832,292 \$2,974,133 \$3,506,441 \$2,463,901 \$3,167,015 \$2,408,754 \$2,535,942 \$3,101,321 \$3,530,078	(\$2,918,047) (\$2,118,621) (\$2,095,007) (\$2,036,849) (\$1,986,929) (\$2,338,741) (\$1,620,194) (\$1,979,685) (\$1,804,920) (\$1,312,187) (\$849,000) \$1,643	(\$3,266,889) (\$2,530,126) (\$2,115,652) (\$2,073,564) (\$2,019,132) (\$2,170,123) (\$1,987,300) (\$1,806,419) (\$1,898,823) (\$1,565,186) (\$1,086,243) (\$427,473)	8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50%	31 30 31 30 31 31 28 31 30 31 30 31	(\$23,584) (\$17,676) (\$15,273) (\$14,487) (\$14,576) (\$15,667) (\$12,958) (\$13,041) (\$13,266) (\$11,299) (\$7,589) (\$3,086)	(\$2,941,631) (\$2,136,298) (\$2,110,280) (\$2,051,335) (\$2,001,505) (\$2,354,407) (\$1,633,152) (\$1,992,726) (\$1,818,186) (\$1,323,486) (\$856,588) (\$1,443)
Total Au	ıg-24 to Jul	-25	\$39,281,616	\$35,504,826					(\$162,502)	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
All Remaining EDC Costs (Non- Transmission)		Beginning Balance	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
Sep-24 Es Oct-24 Es Nov-24 Es Dec-24 Es Jan-25 Es Mar-25 Es May-25 Es Jun-25 Es Jul-25 Es	stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate	(\$6,130,707)(1) (\$4,275,157) (\$3,211,449) (\$3,625,486) (\$2,728,812) (\$1,965,388) (\$2,565,166) (\$1,877,450) (\$1,042,226) (\$1,688,391) (\$822,601) \$230,270	\$1,223,968 \$558,477 (\$821,677) \$558,673 \$558,152 (\$819,491) \$563,869 \$559,335 (\$820,399) \$559,972 \$560,348 (\$808,273)	(\$626,836) (\$531,292) (\$432,230) (\$360,120) (\$222,156) (\$236,008) (\$138,284) (\$286,390) (\$183,739) (\$314,848) (\$494,586) (\$583,036) (\$4,409,524)	(\$4,279,903) (\$3,185,388) (\$3,600,896) (\$2,706,693) (\$1,948,504) (\$2,548,871) (\$1,863,013) (\$1,031,725) (\$1,678,886) (\$813,570) \$232,332 \$5,033	(\$5,205,305) (\$3,730,273) (\$3,406,172) (\$3,166,089) (\$2,338,658) (\$2,257,129) (\$2,214,089) (\$1,454,587) (\$1,360,556) (\$1,250,980) (\$295,134) \$117,652	8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50%	31 30 31 30 31 31 28 31 30 31 30 31	\$4,746 (2) (\$26,061) (\$24,590) (\$22,119) (\$16,883) (\$16,295) (\$14,437) (\$10,501) (\$9,505) (\$9,031) (\$2,062) \$849 (\$145,889)	(\$4,275,157) (\$3,211,449) (\$3,625,486) (\$2,728,812) (\$1,965,388) (\$2,565,166) (\$1,877,450) (\$1,042,226) (\$1,688,391) (\$822,601) \$230,270 \$5,883
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Total External Delivery Charge		Beginning Balance	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
Sep-24 Es Oct-24 Es Nov-24 Es Jan-25 Es Mar-25 Es May-25 Es Jun-25 Es Jul-25 Es	stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate stimate	(\$9,746,438)(1) (\$7,216,788) (\$5,347,747) (\$5,735,766) (\$4,780,147) (\$3,966,893) (\$4,919,573) (\$3,510,602) (\$3,034,952) (\$3,506,577) (\$2,146,087) (\$626,318)	\$5,352,921 \$4,266,846 \$1,887,935 \$3,464,397 \$3,596,692 \$2,349,714 \$3,761,984 \$3,379,817 \$1,776,160 \$3,601,914 \$4,136,155 \$3,580,035	\$2,804,433 \$2,354,067 \$2,236,091 \$2,472,172 \$2,751,978 \$3,270,433 \$2,325,617 \$2,880,625 \$2,225,015 \$2,221,094 \$2,606,736 \$2,947,041 \$31,095,301	(\$7,197,950) (\$5,304,009) (\$5,695,903) (\$4,743,541) (\$3,935,433) (\$4,887,612) (\$3,483,206) (\$3,011,410) (\$3,483,806) (\$2,125,757) (\$616,667) \$6,676	(\$8,472,194) (\$6,260,399) (\$5,521,825) (\$5,239,654) (\$4,357,790) (\$4,427,252) (\$4,201,390) (\$3,261,090) (\$3,259,379) (\$2,816,167) (\$1,381,377) (\$309,821)	8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50% 8.50%	31 30 31 30 31 31 28 31 30 31 30 31	(\$18,839)(2) (\$43,737) (\$39,863) (\$36,606) (\$31,460) (\$31,961) (\$27,395) (\$23,542) (\$22,771) (\$20,330) (\$9,651) (\$2,237)	(\$7,216,788) (\$5,347,747) (\$5,735,766) (\$4,780,147) (\$3,966,893) (\$4,919,573) (\$3,510,602) (\$3,034,952) (\$3,506,577) (\$2,146,087) (\$626,318) \$4,439

⁽¹⁾ Beginning balance includes VMP/REP reconciliation of \$387,940, effective May 1, 2024, as filed in DE 23-092, and July 31, 2024 estimated Lost Base Revenue reconciliation balance of \$10,990.82.

⁽²⁾ Includes estimated \$42,323.66 to adjust interest associated with property tax adjustment effective January 1, 2024 and VMP/REP reconciliation adjustment effective May 1, 2024.

CALCULATION OF THE EXTERNAL DELIVERY CHARGE

	Calculation of the EDC - <u>Total</u>	Calculation of the EDC - <u>Transmission Only</u>	Calculation of the EDC - Non-Transmission
1. (Over)/under Recovery Beginning Balance August 1, 2023	\$7,173,720	(\$3,864,525)	\$ 11,038,245
2 Estimated Total Costs (August 2023 – July 2024)	\$45,897,018	\$38,639,323	\$ 7,257,696
3 Estimated Wholesale and Wheeling Revenue (August 2023 July 2024)	<u>\$3,141,206</u>	<u>\$0</u>	<u>\$3,141,206</u>
4 Estimated Interest (August 2023 July 2024)	\$324,758	(\$152,580)	\$477,338
5 Costs to be Recovered (L.1 + L.2 - L.3 + L. 4)	<u>50,254,291</u>	<u>34,622,218</u>	<u>15,632,072</u>
6 Estimated Calendar Month Deliveries in kWh (August 2023 – July 2024)	<u>1,120,359,195</u>	<u>1,120,359,195</u>	<u>1,120,359,195</u>
7. External Delivery Charge (\$/kWh) (L. 5 / L. 6)	\$0.04486	\$0.03090	\$0.01396
1. (Over)/under Recovery - Beginning Balance August 1, 2024	(\$9,746,438)	(\$3,615,731)	(\$6,130,707)
2. Estimated Total Costs (August 2024 - July 2025)	\$41,154,570	\$39,281,616	\$1,872,954
3. Estimated Wholesale and Wheeling Revenue (August 2024 - July 2025)	\$2,657,840	\$0	\$2,657,840
4. Estimated Interest (August 2024 - July 2025)	<u>(\$308,391)</u>	<u>(\$162,502)</u>	<u>(\$145,889)</u>
5. Costs to be Recovered (L.1 + L.2 - L.3 + L. 4)	\$28,441,900	\$35,503,382	(\$7,061,482)
6. Estimated Calendar Month Deliveries in kWh (August 2024 - July 2025)	<u>1,120,026,042</u>	<u>1,120,026,042</u>	<u>1,120,026,042</u>
7. External Delivery Charge (\$/kWh) (L. 5 / L. 6)	\$0.02539	\$0.03170	(\$0.00631)

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

Issued: July 23, 2024 August 9, 2023
Effective: August 1, 2024 S

Issued By: Daniel Hurstak
Vice President and Treasurer