

**Northern Utilities, Inc.
EEC Charge Factor Calculation**

EEC Charge Factors for Residential Customers

	<u>Effective</u> January 1, 2024	<u>Effective</u> January 1, 2025	<u>Effective</u> January 1, 2026
EEC effective January 1, 2023 (\$/therm)	\$0.0520	\$0.0545	\$0.0570
Estimated Inflation Factor	4.860%	4.510%	2.670%
Proposed EEC effective January 1, 2024 (\$/therm)	\$0.0545	\$0.0570	\$0.0585
Energy Efficiency Charge Factor for Residential Customers	\$0.0545	\$0.0570	\$0.0585

EEC Charge Factors for Commercial and Industrial Customers (C&I)

EEC effective January 1, 2023 (\$/therm)	\$0.0257	\$0.0269	\$0.0282
Estimated Inflation Factor	4.860%	4.510%	2.670%
Proposed EEC effective January 1, 2024 (\$/therm)	\$0.0269	\$0.0282	\$0.0289
Energy Efficiency Charge Factor for C&I Customers	\$0.0269	\$0.0282	\$0.0289

(1) Estimated Inflation Factor based on most recently available 3-yr average CPI.

Northern Utilities, Inc.
Energy Efficiency Charge, a Component of the Local Distribution Adjustment Charge
Reconciliation of Costs and Revenues January 1 2022 through December 31, 2023
Residential Customers

		Beginning Balance (Over)/Under	EEC Rate per Therm	EEC Collections	EEC Costs	DSM PI	Allocated Low Income Costs	Allocated Low Income PI	Ending Balance (Over)/Under	Average Balance (Over)/Under	Interest Prime Rate	Interest @ Prime Rate	Ending Balance plus Interest (Over)/Under	Therm Sales	# of Days
January-22	Actual	(\$7,889)	\$0.0476	\$155,767	\$16,661	\$0	\$2,307	\$0	(\$144,688)	(\$76,288)	3.25%	(\$211)	(\$144,898)	3,369,745	31
February-22	Actual	(\$144,898)	\$0.0476	\$171,599	\$35,078	\$0	\$2,571	\$0	(\$278,848)	(\$211,873)	3.25%	(\$528)	(\$279,376)	3,604,902	28
March-22	Actual	(\$279,376)	\$0.0499	\$143,459	\$127,262	\$0	\$3,299	\$0	(\$292,273)	(\$285,825)	3.25%	(\$789)	(\$293,062)	2,938,474	31
April-22	Actual	(\$293,062)	\$0.0499	\$87,884	\$49,497	\$15,673	\$2,741	\$2,704	(\$310,331)	(\$301,697)	3.25%	(\$448)	(\$310,778)	1,761,356	30
May-22	Actual	(\$310,778)	\$0.0499	\$54,152	\$42,801	\$3,918	\$2,258	\$591	(\$315,361)	(\$313,070)	3.25%	(\$864)	(\$316,225)	1,085,211	31
June-22	Actual	(\$316,225)	\$0.0499	\$24,314	\$53,507	\$17,071 (1)	\$1,993	\$966 (1)	(\$267,003)	(\$291,614)	3.25%	(\$162)(1)	(\$267,165)	487,419	30
July-22	Actual	(\$267,165)	\$0.0499	\$17,980	\$19,751	\$3,918	\$33,548	\$364	(\$227,565)	(\$247,365)	4.00%	(\$840)	(\$228,405)	360,397	31
August-22	Actual	(\$228,405)	\$0.0499	\$15,855	\$45,349	\$3,918	\$3,649	\$311	(\$191,033)	(\$209,719)	4.00%	(\$712)	(\$191,746)	318,137	31
September-22	Actual	(\$191,746)	\$0.0499	\$17,600	\$17,830	\$3,918	\$1,335	\$322	(\$185,940)	(\$188,843)	4.00%	(\$621)	(\$186,561)	352,672	30
October-22	Actual	(\$186,561)	\$0.0499	\$30,708	\$59,438	\$3,918	\$5,568	\$422	(\$147,923)	(\$167,242)	5.50%	(\$781)	(\$148,704)	615,455	31
November-22	Actual	(\$148,704)	\$0.0499	\$48,363	\$79,074	\$3,918	\$31,332	\$499	(\$82,244)	(\$115,474)	5.50%	(\$522)	(\$82,766)	969,156	30
December-22	Actual	(\$82,766)	\$0.0499	\$109,029	\$193,698	\$3,918	\$33,362	\$687	\$39,870	(\$21,448)	5.50%	(\$100)	\$39,770	2,184,906	31
January-23	Actual	\$39,770	\$0.0520	\$154,999	\$48,837	\$2,768	\$2,707	\$432	(\$60,485)	(\$10,357)	7.00%	(\$62)	(\$60,546)	3,049,368	31
February-23	Actual	(\$60,546)	\$0.0520	\$159,973	\$26,760	\$2,768	\$6,066	\$433	(\$184,492)	(\$122,519)	7.00%	(\$658)	(\$185,150)	3,076,441	28
March-23	Actual	(\$185,150)	\$0.0520	\$145,482	\$84,827	\$2,768	\$7,946	\$428	(\$234,663)	(\$209,907)	7.00%	(\$1,248)	(\$235,911)	2,797,702	31
April-23	Actual	(\$235,911)	\$0.0520	\$91,427	\$48,117	\$2,768	\$2,375	\$395	(\$273,682)	(\$254,797)	7.75%	(\$1,623)	(\$275,305)	1,758,160	30
May-23	Actual	(\$275,305)	\$0.0520	\$51,096	\$82,685	\$2,768	\$13,750	\$318	(\$226,880)	(\$251,093)	7.75%	(\$1,653)	(\$228,533)	982,595	31
June-23 (2)	Forecast	(\$228,533)	\$0.0520	\$32,860	\$91,131	(\$2,551)	\$11,156	\$1,873	(\$159,785)	(\$194,159)	7.75%	(\$1,237)	(\$161,022)	631,919	30
July-23	Forecast	(\$101,022)	\$0.0520	\$21,625	\$91,131	\$2,768	\$11,156	\$316	(\$17,277)	(\$59,149)	8.25%	(\$414)	(\$17,691)	415,872	31
August-23	Forecast	\$57,309	\$0.0520	\$18,824	\$91,131	\$2,768	\$11,156	\$316	\$143,855	\$100,582	8.25%	\$705	\$144,560	361,994	31
September-23	Forecast	\$144,560	\$0.0520	\$19,674	\$91,131	\$2,768	\$11,156	\$316	\$230,256	\$187,408	8.25%	\$1,271	\$231,526	378,354	30
October-23	Forecast	\$231,526	\$0.0520	\$35,012	\$91,131	\$2,768	\$11,156	\$316	\$301,884	\$266,705	8.25%	\$1,869	\$303,753	673,311	31
November-23	Forecast	\$303,753	\$0.0520	\$76,662	\$91,131	\$2,768	\$11,156	\$316	\$332,461	\$318,107	8.25%	\$2,157	\$334,618	1,474,271	30
December-23	Forecast	\$334,618	\$0.0520	\$148,592	\$91,131	\$2,768	\$11,156	\$316	\$291,396	\$313,007	8.25%	\$2,193	\$293,589	2,857,544	31

Jan 22 thru Dec 23 Totals

\$1,832,936 \$1,669,089 \$88,070 \$234,899 \$12,636

36,505,362

Actual Performance Incentives includes reconciliations from prior year(s).

(1) Includes interest related to prior period PI reconciliation.

(2) Includes 2022 PI true-up.

Northern Utilities, Inc.															
Energy Efficiency Charge, a Component of the Local Distribution Adjustment Charge															
Reconciliation of Costs and Revenues January 1 2022 through December 31, 2023															
General Service Customers															
		Beginning Balance (Over)/Under	EEC Rate per Therm	EEC Collections	EEC Costs	DSM PI	Allocated Low Income Costs	Allocated Low Income PI	Ending Balance (Over)/Under	Average Balance (Over)/Under	Interest Prime Rate	Interest @ Prime Rate	Ending Balance plus Interest (Over)/Under	Therm Sales	# of Days
January-22	Actual	(\$325,069)	\$0.0326	\$238,296	\$18,716	\$0	\$5,494	\$0	(\$539,155)	(\$432,112)	3.25%	(\$1,193)	(\$540,348)	8,026,522	31
February-22	Actual	(\$540,348)	\$0.0326	\$259,736	\$30,806	\$0	\$5,697	\$0	(\$763,581)	(\$651,964)	3.25%	(\$1,625)	(\$765,207)	7,986,044	28
March-22	Actual	(\$765,207)	\$0.0247	\$187,679	\$19,249	\$0	\$7,744	\$0	(\$925,891)	(\$845,549)	3.25%	(\$2,334)	(\$928,225)	6,897,763	31
April-22	Actual	(\$928,225)	\$0.0247	\$120,785	\$24,070	\$25,163	\$7,605	\$7,505	(\$984,667)	(\$956,446)	3.25%	(\$2,708)(1)	(\$987,375)	4,887,758	30
May-22	Actual	(\$987,375)	\$0.0247	\$89,019	\$16,214	\$6,291	\$7,503	\$1,962	(\$1,044,425)	(\$1,015,900)	3.25%	(\$2,804)	(\$1,047,229)	3,605,029	31
June-22	Actual	(\$1,047,229)	\$0.0247	\$61,201	\$38,512	\$8,056 (1)	\$10,129	\$4,911 (1)	(\$1,046,822)	(\$1,047,025)	3.25%	(\$2,836)(1)	(\$1,049,658)	2,477,313	30
July-22	Actual	(\$1,049,658)	\$0.0247	\$53,594	\$15,457	\$6,291	\$202,001	\$2,189	(\$877,315)	(\$963,486)	4.00%	(\$3,273)	(\$880,588)	2,170,039	31
August-22	Actual	(\$880,588)	\$0.0247	\$56,700	\$31,808	\$6,291	\$26,326	\$2,242	(\$870,622)	(\$875,605)	4.00%	(\$2,975)	(\$873,586)	2,295,293	31
September-22	Actual	(\$873,596)	\$0.0247	\$60,267	\$113,504	\$6,291	\$9,237	\$2,230	(\$802,602)	(\$838,099)	4.00%	(\$2,755)	(\$805,357)	2,439,921	30
October-22	Actual	(\$805,357)	\$0.0247	\$76,740	\$91,856	\$6,291	\$28,105	\$2,130	(\$753,715)	(\$779,536)	5.50%	(\$3,641)	(\$757,357)	3,106,839	31
November-22	Actual	(\$757,357)	\$0.0247	\$98,561	\$136,901	\$6,291	\$129,004	\$2,054	(\$581,668)	(\$669,512)	5.50%	(\$3,027)	(\$584,695)	3,990,311	30
December-22	Actual	(\$584,695)	\$0.0247	\$146,629	\$760,461	\$6,291	\$90,599	\$1,865	\$127,893	(\$228,401)	5.50%	(\$1,067)	\$126,826	5,933,403	31
January-23	Actual	\$126,826	\$0.0257	\$186,368	\$21,642	\$3,129	\$6,529	\$1,042	(\$27,200)	\$49,813	7.00%	\$296.15	(\$26,903)	7,355,197	31
February-23	Actual	(\$26,903)	\$0.0257	\$190,429	\$33,104	\$3,129	\$14,611	\$1,042	(\$165,446)	(\$96,175)	7.00%	(\$516.45)	(\$165,962)	7,409,936	28
March-23	Actual	(\$165,962)	\$0.0257	\$176,036	\$163,509	\$3,129	\$19,455	\$1,047	(\$154,859)	(\$160,411)	7.00%	(\$953.68)	(\$155,812)	6,849,674	31
April-23	Actual	(\$155,812)	\$0.0257	\$123,446	\$75,978	\$3,129	\$6,490	\$1,079	(\$192,581)	(\$174,197)	7.75%	(\$1,109.61)	(\$193,691)	4,803,317	30
May-23	Actual	(\$193,691)	\$0.0257	\$91,952	\$45,143	\$3,129	\$50,092	\$1,157	(\$186,122)	(\$189,906)	7.75%	(\$1,250.00)	(\$187,372)	3,579,527	31
June-23 (2)	Forecast	(\$187,372)	\$0.0257	\$69,392	\$101,582	\$764	\$40,969	\$5,798	(\$107,651)	(\$147,511)	7.75%	(\$939.62)	(\$108,591)	2,700,077	30
July-23	Forecast	(\$2,591)	\$0.0257	\$65,156	\$101,582	\$3,129	\$40,969	\$1,159	\$79,093	\$38,251	8.25%	\$268.02	\$79,361	2,535,253	31
August-23	Forecast	\$229,361	\$0.0257	\$64,339	\$101,582	\$3,129	\$40,969	\$1,159	\$311,862	\$270,611	8.25%	\$1,896.13	\$313,758	2,503,467	31
September-23	Forecast	\$313,758	\$0.0257	\$65,399	\$101,582	\$3,129	\$40,969	\$1,159	\$395,199	\$354,478	8.25%	\$2,403.65	\$397,603	2,544,691	30
October-23	Forecast	\$397,603	\$0.0257	\$85,158	\$101,582	\$3,129	\$40,969	\$1,159	\$459,285	\$428,444	8.25%	\$3,002.04	\$462,287	3,313,533	31
November-23	Forecast	\$462,287	\$0.0257	\$120,572	\$101,582	\$3,129	\$40,969	\$1,159	\$488,554	\$475,421	8.25%	\$3,223.75	\$491,778	4,691,520	30
December-23	Forecast	\$491,778	\$0.0257	\$171,151	\$101,582	\$3,129	\$40,969	\$1,159	\$467,467	\$479,623	8.25%	\$3,360.65	\$470,828	6,659,570	31
Jan 22 thru Dec 23 Totals				\$2,858,604	\$2,348,005	\$112,443	\$913,407	\$45,205						108,761,997	

Actual Performance Incentives includes reconciliations from prior year(s).
(1) Includes interest related to prior period PI reconciliation.
(2) Includes 2022 PI true-up.

NORTHERN UTILITIES, INC.
Summary of EEC Typical Bill Analysis

Energy Efficiency Charge/Lost Revenue Rate (\$/therm)	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>
Residential	\$0.0520	\$0.0545	\$0.0570	\$0.0585
Commercial & Industrial	\$0.0257	\$0.0269	\$0.0282	\$0.0289

<u>Bill per period</u>	<u>Winter</u>	<u>Summer</u>	<u>Winter</u>	<u>Summer</u>	Winter	Summer	Winter	Summer
Residential Heat - R-5	\$1,366.37	\$316.84	\$1,367.84	\$317.15	\$1,369.27	\$317.46	\$1,370.16	\$317.65
Residential Non-Heat - R-6	\$474.05	\$222.67	\$474.38	\$222.82	\$474.70	\$222.97	\$474.90	\$223.06
G-40 Commercial & Industrial	\$2,877.64	\$687.82	\$2,879.90	\$688.18	\$2,882.11	\$688.53	\$2,883.47	\$688.74
G-41 Commercial & Industrial	#####	\$4,220.72	#####	\$4,225.46	\$26,225.47	#####	#####	\$4,232.93
G-51 Commercial & Industrial	#####	\$5,410.84	#####	\$5,420.25	\$14,736.91	#####	#####	\$5,435.06

Change from prior period - \$ per period

Residential Heat - R-5		\$1.47	\$0.31	\$1.43	\$0.30	\$0.89	\$0.19
Residential Non-Heat - R-6		\$4.77	\$0.15	\$0.32	\$0.15	\$0.20	\$0.09
G-40 Commercial & Industrial		\$17.89	\$0.36	\$2.20	\$0.35	\$1.36	\$0.22
G-41 Commercial & Industrial		\$169.66	\$4.74	\$22.24	\$4.61	\$13.76	\$2.86
G-51 Commercial & Industrial		\$101.47	\$9.41	\$14.11	\$9.15	\$8.73	\$5.66

Change from prior period - %

Residential Heat - R-5		0.11%	0.10%	0.10%	0.10%	0.06%	0.06%
Residential Non-Heat - R-6		1.01%	0.07%	0.07%	0.07%	0.04%	0.04%
G-40 Commercial & Industrial		0.62%	0.05%	0.08%	0.05%	0.05%	0.03%
G-41 Commercial & Industrial		0.65%	0.11%	0.08%	0.11%	0.05%	0.07%
G-51 Commercial & Industrial		0.69%	0.17%	0.10%	0.17%	0.06%	0.10%