

**Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Utilities**  
**Revenue Decoupling Adjustment Factor (RDAF)**  
**For LDAC effective November 1, 2021 - October 31, 2022**

	(a) DG 21-130 As Filed 10/19/21 (Bates 128) Tariff No. 11 (Sep 20 - Aug 21)	(b) DG 22-041 Revised per RR-01 Old Tariff No. 10 (Sep 20-Jul 21) New Tariff No. 11 (Aug 21)	(c) = (b) - (a) Variance (Refund)/Recovery
<u>Residential</u>			
1 Residential Reconciliation Estimated Balance of Prior Recoveries / (Refunds) through August 31, 2021	(\$523,704)	(\$523,704)	\$0
2 Residential Revenue Decoupling Year 3 Deficiency / (Excess) - September 1, 2020 through August 31, 202	<u>\$1,522,705</u>	<u>(\$279,430)</u>	<u>(\$1,802,135)</u>
3 Total Residential Revenue Decoupling Deficiency / (Excess) - Prior to Adjustments	\$999,001	(\$803,134)	(\$1,802,135)
4 Adjustments to Residential prior year filings for low income customer treatment			
5 2019 Filing (total adjustment is \$1,932,224 collected over two years)	\$966,112	\$966,112	\$0
6 2020 Filing (total adjustment is \$2,092,605 collected over two years)	\$1,046,303	\$1,046,303	\$0
7 Removal of Adjustments to Residential prior year filings for low income customer treatment	<u>(\$2,012,415)</u>	<u>(\$2,012,415)</u>	\$0
8 Total Residential Revenue Decoupling Deficiency / (Excess)	\$999,001	(\$803,134)	<b>(\$1,802,135)</b>
9 Estimated Residential November 2021 - October 2022 Sales (therms)	65,649,919	65,649,919	65,649,919
10 Residential Revenue Decoupling rate per therm November 2021 - October 2022	\$0.0152	(\$0.0122)	(\$0.0275)
<u>Commercial</u>			
11 Commercial Reconciliation Estimated Balance of Prior Recoveries / (Refunds) through August 31, 2021	(\$446,234)	(\$446,234)	\$0
12 Commercial Revenue Decoupling Year 3 Deficiency / (Excess) - September 1, 2020 through August 31, 20	<u>\$903,659</u>	<u>\$1,124,991</u>	<u>\$221,333</u>
13 Total Commercial Revenue Decoupling Deficiency / (Excess)	\$457,424	\$678,757	<b>\$221,333</b>
14 Estimated Commercial November 2021 - October 2022 Sales (therms)	117,179,952	117,179,952	117,179,952
15 Commercial Revenue Decoupling rate per therm November 2021 - October 2022	\$0.0039	\$0.0058	\$0.0019

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
November 2020 through August 2021  
Revenue Decoupling - Credits by Sector

<b>RESIDENTIAL</b>	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Estimate)
<b>FOR THE MONTH OF:</b>	<b>Nov-20</b>	<b>Dec-20</b>	<b>Jan-21</b>	<b>Feb-21</b>	<b>Mar-21</b>	<b>Apr-21</b>	<b>May-21</b>	<b>Jun-21</b>	<b>Jul-21</b>	<b>Aug-21</b>
<b>DAYS IN MONTH</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>28</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>
Over / Under Beginning Balance	\$ (3,682,012)	\$ (3,465,584)	\$ (3,070,769)	\$ (2,529,984)	\$ (1,925,470)	\$ (1,325,885)	\$ (964,491)	\$ (760,172)	\$ (654,619)	\$ (581,484)
Monthly billing activity	\$ 225,962	\$ 403,824	\$ 548,504	\$ 610,062	\$ 604,066	\$ 364,448	\$ 206,696	\$ 107,440	\$ 74,839	\$ 59,303
Ending Balance Pre-Interest	\$ (3,456,051)	\$ (3,061,761)	\$ (2,522,265)	\$ (1,919,923)	\$ (1,321,404)	\$ (961,436)	\$ (757,795)	\$ (652,732)	\$ (579,780)	\$ (522,181)
Month's Average Balance	\$ (3,569,032)	\$ (3,263,672)	\$ (2,796,517)	\$ (2,224,953)	\$ (1,623,437)	\$ (1,143,661)	\$ (861,143)	\$ (706,452)	\$ (617,200)	\$ (551,832)
Interest Rate	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%
Interest Applied	\$ (9,534)	\$ (9,009)	\$ (7,719)	\$ (5,547)	\$ (4,481)	\$ (3,055)	\$ (2,377)	\$ (1,887)	\$ (1,704)	\$ (1,523)
Ending Balance	\$ (3,465,584)	\$ (3,070,769)	\$ (2,529,984)	\$ (1,925,470)	\$ (1,325,885)	\$ (964,491)	\$ (760,172)	\$ (654,619)	\$ (581,484)	\$ (523,704)

<b>COMMERCIAL &amp; INDUSTRIAL</b>	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Estimate)
<b>FOR THE MONTH OF:</b>	<b>Nov-20</b>	<b>Dec-20</b>	<b>Jan-21</b>	<b>Feb-21</b>	<b>Mar-21</b>	<b>Apr-21</b>	<b>May-21</b>	<b>Jun-21</b>	<b>Jul-21</b>	<b>Aug-21</b>
<b>DAYS IN MONTH</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>28</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>
Over / Under Beginning Balance	\$ (2,441,102)	\$ (2,273,218)	\$ (2,038,784)	\$ (1,750,239)	\$ (1,422,472)	\$ (1,089,831)	\$ (870,841)	\$ (725,225)	\$ (617,318)	\$ (528,882)
Monthly billing activity	\$ 174,172	\$ 240,378	\$ 293,767	\$ 331,718	\$ 336,103	\$ 221,606	\$ 147,815	\$ 109,698	\$ 90,016	\$ 83,991
Ending Balance Pre-Interest	\$ (2,266,930)	\$ (2,032,841)	\$ (1,745,017)	\$ (1,418,522)	\$ (1,086,369)	\$ (868,225)	\$ (723,025)	\$ (615,527)	\$ (527,302)	\$ (444,890)
Month's Average Balance	\$ (2,354,016)	\$ (2,153,030)	\$ (1,891,900)	\$ (1,584,380)	\$ (1,254,420)	\$ (979,028)	\$ (796,933)	\$ (670,376)	\$ (572,310)	\$ (486,886)
Interest Rate	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%
Interest Applied	\$ (6,288)	\$ (5,943)	\$ (5,222)	\$ (3,950)	\$ (3,463)	\$ (2,615)	\$ (2,200)	\$ (1,791)	\$ (1,580)	\$ (1,344)
Ending Balance	\$ (2,273,218)	\$ (2,038,784)	\$ (1,750,239)	\$ (1,422,472)	\$ (1,089,831)	\$ (870,841)	\$ (725,225)	\$ (617,318)	\$ (528,882)	\$ (446,234)

Total Ending Balance	\$ (5,738,803)	\$ (5,109,553)	\$ (4,280,223)	\$ (3,347,941)	\$ (2,415,716)	\$ (1,835,332)	\$ (1,485,397)	\$ (1,271,937)	\$ (1,110,366)	\$ (969,938)
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Liberty Utilities (Energy/North Natural Gas) Corp.  
 September 2020 through August 2021  
 Revenue Decoupling Activity by Sector

<b>RESIDENTIAL</b>		(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Estimate)
<b>1 FOR THE MONTH OF:</b>		Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21
<b>2 DAYS IN MONTH</b>		30	31	30	31	31	28	31	30	31	30	31	31
3	Over Under Beginning Balance		\$ 257,090	\$ 810,822	\$ 1,511,842	\$ 1,582,770	\$ 2,215,950	\$ 2,187,009	\$ 2,273,003	\$ 1,546,131	\$ 1,519,036	\$ 1,546,764	\$ 1,364,717
4													
5	Monthly revenue difference Inc/(Dec) revenue	\$ 240,943	\$ 517,074	\$ 585,965	\$ (5,280)	\$ 630,944	\$ (31,172)	\$ 4,026	\$ (790,048)	\$ (59,223)	\$ 21,114	\$ (186,059)	\$ 154,008
6													
7	True up	15,804	35,187	111,956	71,943	(2,999)	(3,251)	75,821	58,082	27,903	2,525		
8													
9	Ending Balance Pre-Interest	\$ 256,747	\$ 809,350	\$ 1,508,744	\$ 1,578,505	\$ 2,210,715	\$ 2,181,527	\$ 2,266,856	\$ 1,541,037	\$ 1,514,811	\$ 1,542,674	\$ 1,360,705	\$ 1,518,726
10													
11	Month's Average Balance	\$ 128,373	\$ 533,220	\$ 1,159,783	\$ 1,545,174	\$ 1,896,742	\$ 2,198,738	\$ 2,226,932	\$ 1,907,020	\$ 1,530,471	\$ 1,530,855	\$ 1,453,734	\$ 1,441,721
12													
13	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%
14													
15	Interest Applied	\$ 343	\$ 1,472	\$ 3,098	\$ 4,265	\$ 5,236	\$ 5,482	\$ 6,147	\$ 5,094	\$ 4,225	\$ 4,089	\$ 4,013	\$ 3,980
16													
17	Ending Balance	\$ 257,090	\$ 810,822	\$ 1,511,842	\$ 1,582,770	\$ 2,215,950	\$ 2,187,009	\$ 2,273,003	\$ 1,546,131	\$ 1,519,036	\$ 1,546,764	\$ 1,364,717	\$ 1,522,705

<b>COMMERCIAL &amp; INDUSTRIAL</b>		(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Estimate)
<b>18 FOR THE MONTH OF:</b>		Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21
<b>19 DAYS IN MONTH</b>		30	31	30	31	31	28	31	30	31	30	31	31
20	Over Under Beginning Balance		\$ 29,045	\$ (347,758)	\$ (718,458)	\$ (1,539,810)	\$ (908,753)	\$ (595,095)	\$ 382,115	\$ 405,459	\$ 771,334	\$ 960,953	\$ 838,916
21													
22	Monthly revenue difference Inc/(Dec) revenue	\$ 30,086	\$ (399,411)	\$ (532,021)	\$ (762,675)	\$ 638,015	\$ 406,808	\$ 946,452	\$ (57,824)	\$ 362,977	\$ 219,735	\$ (124,518)	\$ 62,341
23													
24	True up	(1,079)	23,047	162,743	(55,564)	(3,584)	(91,277)	31,051	80,118	1,276	(32,427)		
25													
26	Ending Balance Pre-Interest	\$ 29,007	\$ (347,319)	\$ (717,036)	\$ (1,536,698)	\$ (905,379)	\$ (593,222)	\$ 382,409	\$ 404,409	\$ 769,712	\$ 958,642	\$ 836,435	\$ 901,257
27													
28	Month's Average Balance	\$ 14,503	\$ (159,137)	\$ (532,397)	\$ (1,127,578)	\$ (1,222,594)	\$ (750,988)	\$ (106,343)	\$ 393,262	\$ 587,586	\$ 864,988	\$ 898,694	\$ 870,086
29													
30	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%
31													
32	Interest Applied	\$ 39	\$ (439)	\$ (1,422)	\$ (3,112)	\$ (3,375)	\$ (1,872)	\$ (294)	\$ 1,050	\$ 1,622	\$ 2,311	\$ 2,481	\$ 2,402
33													
34	Ending Balance	\$ 29,045	\$ (347,758)	\$ (718,458)	\$ (1,539,810)	\$ (908,753)	\$ (595,095)	\$ 382,115	\$ 405,459	\$ 771,334	\$ 960,953	\$ 838,916	\$ 903,659

35	Total Ending Balance	\$ 286,135	\$ 463,064	\$ 793,384	\$ 42,960	\$ 1,307,197	\$ 1,591,914	\$ 2,655,118	\$ 1,951,590	\$ 2,290,370	\$ 2,507,716	\$ 2,203,633	\$ 2,426,364
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Liberty Utilities (EnergyNorth Natural Gas) Corp.  
September 2020 through August 2021  
Revenue Decoupling Activity by Sector

<b>RESIDENTIAL</b>		(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	
<b>1 FOR THE MONTH OF:</b>	<b>2 DAYS IN MONTH</b>	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21
		30	31	30	31	31	28	31	30	31	30	31	31
3	Over Under Beginning Balance		\$ (54,110)	\$ (238,991)	\$ (487,275)	\$ (596,111)	\$ (617,531)	\$ (660,160)	\$ (619,050)	\$ (582,022)	\$ (361,679)	\$ (290,021)	\$ (278,661)
4													
5	Monthly Allowed Base Revenue	\$ 2,063,630	\$ 3,049,771	\$ 4,978,900	\$ 6,939,384	\$ 8,038,869	\$ 6,980,587	\$ 6,202,725	\$ 4,077,027	\$ 2,932,303	\$ 2,114,771	\$ 1,975,425	\$ 1,956,187
6	Actual and Estimated Base Revenue	2,117,668	3,234,248	5,226,216	7,046,727	8,058,616	7,021,626	6,159,852	4,038,397	2,710,659	2,042,243	1,963,281	1,994,265
7	Revenue Deficiency / (Excess)	(54,038)	(184,477)	(247,315)	(107,342)	(19,747)	(41,038)	42,873	38,630	221,644	72,528	12,144	(38,078)
8													
9	Ending Balance Pre-Interest	\$ (54,038)	\$ (238,587)	\$ (486,307)	\$ (594,618)	\$ (615,858)	\$ (658,569)	\$ (617,287)	\$ (580,420)	\$ (360,379)	\$ (289,152)	\$ (277,877)	\$ (278,661)
10													
11	Month's Average Balance	\$ (27,019)	\$ (146,349)	\$ (362,649)	\$ (540,947)	\$ (605,985)	\$ (638,050)	\$ (638,724)	\$ (599,735)	\$ (471,201)	\$ (325,416)	\$ (283,949)	\$ (278,661)
12													
13	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%
14													
15	Interest Applied	\$ (72)	\$ (404)	\$ (969)	\$ (1,493)	\$ (1,673)	\$ (1,591)	\$ (1,763)	\$ (1,602)	\$ (1,301)	\$ (869)	\$ (784)	\$ (769)
16													
17	Ending Balance	\$ (54,110)	\$ (238,991)	\$ (487,275)	\$ (596,111)	\$ (617,531)	\$ (660,160)	\$ (619,050)	\$ (582,022)	\$ (361,679)	\$ (290,021)	\$ (278,661)	\$ (279,430)

<b>COMMERCIAL &amp; INDUSTRIAL</b>		(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	
<b>18 FOR THE MONTH OF:</b>	<b>19 DAYS IN MONTH</b>	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21
		30	31	30	31	31	28	31	30	31	30	31	31
20	Over Under Beginning Balance		\$ 48,789	\$ 3,756	\$ 7,289	\$ 108,447	\$ 306,328	\$ 410,357	\$ 598,309	\$ 709,359	\$ 905,069	\$ 994,108	\$ 1,069,946
21													
22	Monthly Allowed Base Revenue	\$ 1,722,372	\$ 2,395,827	\$ 4,083,617	\$ 5,433,053	\$ 6,180,152	\$ 5,366,436	\$ 4,938,155	\$ 3,464,248	\$ 2,272,951	\$ 1,684,265	\$ 1,605,060	\$ 1,626,674
23	Actual and Estimated Base Revenue	1,673,648	2,440,932	4,080,100	5,332,054	5,982,842	5,263,300	4,751,592	3,354,943	2,079,466	1,597,760	1,532,066	1,574,654
24	Revenue Deficiency / (Excess)	48,724	(45,105)	3,518	100,999	197,309	103,137	186,562	109,305	193,485	86,506	72,994	52,020
25													
26	Ending Balance Pre-Interest	\$ 48,724	\$ 3,684	\$ 7,274	\$ 108,288	\$ 305,756	\$ 409,465	\$ 596,919	\$ 707,615	\$ 902,844	\$ 991,574	\$ 1,067,102	\$ 1,121,966
27													
28	Month's Average Balance	\$ 24,362	\$ 26,236	\$ 5,515	\$ 57,788	\$ 207,102	\$ 357,896	\$ 503,638	\$ 652,962	\$ 806,101	\$ 948,322	\$ 1,030,605	\$ 1,095,956
29													
30	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%
31													
32	Interest Applied	\$ 65	\$ 72	\$ 15	\$ 160	\$ 572	\$ 892	\$ 1,390	\$ 1,744	\$ 2,225	\$ 2,533	\$ 2,845	\$ 3,025
33													
34	Ending Balance	\$ 48,789	\$ 3,756	\$ 7,289	\$ 108,447	\$ 306,328	\$ 410,357	\$ 598,309	\$ 709,359	\$ 905,069	\$ 994,108	\$ 1,069,946	\$ 1,124,991

35	Total Ending Balance	\$ (5,321)	\$ (235,235)	\$ (479,987)	\$ (487,664)	\$ (311,203)	\$ (249,803)	\$ (20,741)	\$ 127,336	\$ 543,389	\$ 704,087	\$ 791,286	\$ 845,562
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