

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2020-21 ANNUAL COG RECONCILIATION
SCHEDULE 2: ADJUSTMENTS TO REPORTED SUMMER, WINTER AND ANNUAL ACCOUNTS
August 2020 - October 2021
Acct 191

	<u>Aug-20</u>	<u>Sep-20</u>	<u>Oct-20</u>	<u>Nov-20</u>	<u>Dec-20</u>	<u>Jan-21</u>	<u>Feb-21</u>	<u>Mar-21</u>	<u>Apr-21</u>	<u>May-21</u>	<u>Jun-21</u>	<u>Jul-21</u>	-----Estimated-----			<u>Total</u>	
													<u>Aug-21</u>	<u>Sep-21</u>	<u>Oct-21</u>		
Initial Account Beginning Balance	\$ (1,456,073)																
Adjustment (1)	\$ 135,198																
Adjusted Beginning Balance	\$ (1,320,875)	\$ (485,746)	\$ 339,439	\$ 1,191,118	\$ 526,216	\$ (611,235)	\$ (2,346,307)	\$ (4,200,362)	\$ (5,426,903)	\$ (5,377,699)	\$ (5,051,942)	\$ (3,950,322)	\$ (3,091,269)	\$ (2,005,967)	\$ (892,006)		
Plus: Cost of Firm Gas (Schedule 4)	\$ 952,706	\$ 1,122,305	\$ 1,339,833	\$ 2,199,518	\$ 3,098,711	\$ 3,453,314	\$ 2,894,144	\$ 2,832,065	\$ 2,250,229	\$ 1,380,129	\$ 1,396,231	\$ 1,434,047	\$ 1,578,420	\$ 1,647,240	\$ 2,221,580	\$ 29,800,471	
Less: Reported Collections (Schedule 3)	\$ (115,133)	\$ (296,923)	\$ (490,224)	\$ (2,866,742)	\$ (4,236,047)	\$ (5,184,385)	\$ (4,739,347)	\$ (4,045,586)	\$ (2,186,413)	\$ (1,040,267)	\$ (282,437)	\$ (565,472)	\$ (486,225)	\$ (529,360)	\$ (1,091,684)	\$ (28,156,245)	
Annual Account Ending Balance	\$ (483,303)	\$ 339,637	\$ 1,189,048	\$ 523,894	\$ (611,120)	\$ (2,342,307)	\$ (4,191,509)	\$ (5,413,884)	\$ (5,363,088)	\$ (5,037,838)	\$ (3,938,148)	\$ (3,081,746)	\$ (1,999,073)	\$ (888,087)	\$ 237,890		
Month's Average Balance	\$ (902,089)	\$ (73,054)	\$ 764,244	\$ 857,506	\$ (42,452)	\$ (1,476,771)	\$ (3,268,908)	\$ (4,807,123)	\$ (5,394,995)	\$ (5,207,768)	\$ (4,495,045)	\$ (3,516,034)	\$ (2,545,171)	\$ (1,447,027)	\$ (327,058)		
Interest Rate (Prime 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%	3.25%	3.25%	3.25%		
Interest Applied	\$ (2,443)	\$ (198)	\$ 2,070	\$ 2,322	\$ (115)	\$ (4,000)	\$ (8,853)	\$ (13,019)	\$ (14,611)	\$ (14,104)	\$ (12,174)	\$ (9,523)	\$ (6,893)	\$ (3,919)	\$ (886)	\$ (86,346)	
Annual Account Ending Balance w/int	\$ (485,746)	\$ 339,439	\$ 1,191,118	\$ 526,216	\$ (611,235)	\$ (2,346,307)	\$ (4,200,362)	\$ (5,426,903)	\$ (5,377,699)	\$ (5,051,942)	\$ (3,950,322)	\$ (3,091,269)	\$ (2,005,967)	\$ (892,006)	\$ 237,004		

(1) Reflects adjustment of Fuel Tax Recovery Expense plus ATV charges, plus interest, not included in 2019 - 2020 reconciliation.

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2020-21 ANNUAL COG RECONCILIATION
SCHEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIONS
August 2020 - October 2021

	<u>Aug-20</u>	<u>Sep-20</u>	<u>Oct-20</u>	<u>Nov-20</u>	<u>Dec-20</u>	<u>Jan-21</u>	<u>Feb-21</u>	<u>Mar-21</u>	<u>Apr-21</u>	<u>May-21</u>	<u>Jun-21</u>	<u>Jul-21</u>	<u>Aug-21</u>	Estimated ⁽¹⁾ <u>Sep-21</u>	<u>Oct-21</u>	<u>Total</u>
Accrued Revenue	\$ 750	\$ 58,413	\$ 91,519	\$ 1,393,390	\$ 573,281	\$ 519,878	\$ (551,300)	\$ (920,779)	\$ (316,069)	\$ (377,411)	\$ (295,234)	\$ (9,813)				
Billed Revenue	\$ 114,383	\$ 238,510	\$ 398,705	\$ 1,473,353	\$ 3,662,766	\$ 4,664,508	\$ 5,290,646	\$ 4,966,366	\$ 2,502,482	\$ 1,417,678	\$ 577,671	\$ 575,285				
Calendarized Revenue	\$ 115,133	\$ 296,923	\$ 490,224	\$ 2,866,742	\$ 4,236,047	\$ 5,184,385	\$ 4,739,347	\$ 4,045,586	\$ 2,186,413	\$ 1,040,267	\$ 282,437	\$ 565,472	\$ 486,225	\$ 529,360	\$ 1,091,684	\$ 28,156,245

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2020-21 ANNUAL COG RECONCILIATION
SCHEDULE 4: PURCHASED GAS COSTS
August 2020 - October 2021

-----Estimated⁽¹⁾-----

Commodity Costs	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Total
Citadel Energy	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 520,615	\$ -	\$ 529,757	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,050,372
DTE Energy	\$ -	\$ -	\$ 4,127	\$ -	\$ -	\$ 50,816	\$ 54,195	\$ -	\$ -	\$ 40,041	\$ 46,569	\$ 46,489	\$ -	\$ -	\$ -	\$ 242,236
Emera Energy Services Corp.	\$ 138,318	\$ 146,938	\$ -	\$ 357,389	\$ 459,390	\$ 537,322	\$ 1,213,306	\$ 851,263	\$ 769,661	\$ 598,860	\$ 392,823	\$ 111,700	\$ -	\$ -	\$ -	\$ 5,576,969
Repsol	\$ -	\$ -	\$ 70,001	\$ 35,263	\$ 4,391	\$ 56,283	\$ 138,332	\$ 223,237	\$ 208,848	\$ 42,548	\$ 46,448	\$ 44,812	\$ -	\$ -	\$ -	\$ 870,163
Shell	\$ 4,347	\$ -	\$ 20,756	\$ -	\$ 218,166	\$ 390,904	\$ 386,594	\$ 370,884	\$ 319,651	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,711,302
Southwestern	\$ 20,228	\$ 24,699	\$ 39,336	\$ 31,237	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 115,499
Xpress	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,692	\$ -	\$ -	\$ -	\$ 37,692
Subtotal - Commodity	\$ 162,893	\$ 171,636	\$ 134,219	\$ 423,889	\$ 732,763	\$ 1,559,319	\$ 1,738,232	\$ 1,975,140	\$ 1,298,160	\$ 681,449	\$ 485,840	\$ 240,692	\$ -	\$ -	\$ -	\$ 9,604,231
Transportation																
Granite	\$ 74	\$ 126	\$ 202	\$ 199	\$ 418	\$ 537	\$ 418	\$ 344	\$ 239	\$ 167	\$ 77	\$ 98	\$ -	\$ -	\$ -	\$ 2,898
Emera	\$ 69	\$ 88	\$ 105	\$ 230	\$ 310	\$ 470	\$ 677	\$ 619	\$ 354	\$ 534	\$ 308	\$ 58	\$ -	\$ -	\$ -	\$ 3,822
Emera Energy Services	\$ -	\$ -	\$ -	\$ -	\$ 833	\$ 1,342	\$ 2,177	\$ 4,269	\$ 1,473	\$ 49	\$ 29	\$ -	\$ -	\$ -	\$ -	\$ 10,171
Maritimes	\$ -	\$ -	\$ 70	\$ 2,653	\$ 31,276	\$ 11,040	\$ 5,102	\$ 1,258	\$ -	\$ -	\$ -	\$ 170	\$ -	\$ -	\$ -	\$ 51,569
Tennessee	\$ 2,104	\$ 1,951	\$ 2,097	\$ 2,115	\$ 2,322	\$ 2,491	\$ 2,587	\$ 2,303	\$ 1,844	\$ 2,098	\$ 2,128	\$ 2,054	\$ -	\$ -	\$ -	\$ 26,094
Subtotal - Commodity Transportation	\$ 2,247	\$ 2,165	\$ 2,474	\$ 5,197	\$ 35,159	\$ 15,880	\$ 10,961	\$ 8,792	\$ 3,910	\$ 2,848	\$ 2,542	\$ 2,380	\$ -	\$ -	\$ -	\$ 94,554
Commodity Cost Estimates	\$ 169,403	\$ 262,672	\$ 449,643	\$ 767,504	\$ 1,574,848	\$ 1,748,786	\$ 1,983,661	\$ 1,274,326	\$ 683,787	\$ 488,305	\$ 240,436	\$ 293,016	\$ -	\$ -	\$ -	\$ 9,936,386
Commodity Cost Reversals	\$ (124,887)	\$ (169,403)	\$ (262,672)	\$ (449,643)	\$ (767,504)	\$ (1,574,848)	\$ (1,748,786)	\$ (1,983,661)	\$ (1,274,326)	\$ (683,787)	\$ (488,305)	\$ (240,436)	\$ -	\$ -	\$ -	\$ (9,768,258)
Subtotal - Estimates	\$ 44,516	\$ 93,269	\$ 186,971	\$ 317,861	\$ 807,344	\$ 173,938	\$ 234,875	\$ (709,335)	\$ (590,539)	\$ (195,483)	\$ (247,869)	\$ 52,580	\$ -	\$ -	\$ -	\$ 20,397,684
Subtotal - Supply	\$ 209,656	\$ 267,070	\$ 323,665	\$ 746,947	\$ 1,575,265	\$ 1,749,136	\$ 1,984,069	\$ 1,274,597	\$ 711,532	\$ 488,814	\$ 240,513	\$ 295,651	\$ -	\$ -	\$ -	\$ 9,866,914
Withdrawal - Underground Storage	\$ 2,269	\$ 3,687	\$ (5,892)	\$ 234,557	\$ 359,574	\$ 642,651	\$ 604,645	\$ 208,998	\$ 685	\$ (529)	\$ (49)	\$ (131)	\$ -	\$ -	\$ -	\$ 2,050,464
ATV Reconciliation Charges	\$ (3,132)	\$ (2,611)	\$ (7,580)	\$ (27,268)	\$ (74,639)	\$ (94,725)	\$ (24,705)	\$ 9,067	\$ 12,743	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (212,850)
Off System Sales	\$ -	\$ -	\$ -	\$ -	\$ (2,936)	\$ -	\$ (205,410)	\$ (1,025,807)	\$ (22,267)	\$ -	\$ -	\$ (9,889)	\$ -	\$ -	\$ -	\$ (1,266,309)
Net OBA Adjustment	\$ 184	\$ (588)	\$ 623	\$ 1,852	\$ (392)	\$ 791	\$ (2,621)	\$ (5,475)	\$ (7,362)	\$ (102)	\$ (24)	\$ (328)	\$ -	\$ -	\$ -	\$ (13,442)
Company Managed	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (151,764)	\$ (200,336)	\$ -	\$ (87,953)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (440,053)
LNG Withdrawal / Boiloff	\$ 2,841	\$ 3,146	\$ 2,017	\$ 1,161	\$ 2,132	\$ 8,966	\$ 32,062	\$ 16,943	\$ 2,069	\$ 1,772	\$ 1,498	\$ 1,916	\$ -	\$ -	\$ -	\$ 76,523
Supplier Balancing	\$ (72,711)	\$ -	\$ (19,710)	\$ -	\$ (15,065)	\$ -	\$ 76,839	\$ 202,849	\$ -	\$ 1,841	\$ 8,024	\$ 48,543	\$ -	\$ -	\$ -	\$ 230,610
Inventory Finance Charge	\$ 59	\$ 79	\$ 99	\$ 120	\$ 128	\$ 108	\$ 62	\$ 41	\$ 35	\$ 58	\$ 73	\$ 105	\$ -	\$ -	\$ -	\$ 967
Subtotal - Other Commodity	\$ (70,490)	\$ 3,712	\$ (30,442)	\$ 210,421	\$ 268,802	\$ 557,792	\$ 329,109	\$ (793,719)	\$ (14,098)	\$ (84,912)	\$ 9,520	\$ 40,216	\$ -	\$ -	\$ -	\$ 425,911
Sales for Resale Estimates	\$ -	\$ -	\$ -	\$ (72,377)	\$ (82,322)	\$ (300,945)	\$ (1,130,405)	\$ (109,591)	\$ -	\$ -	\$ (9,889)	\$ -	\$ -	\$ -	\$ -	\$ (1,705,530)
Sales for Resale Reversals	\$ -	\$ -	\$ -	\$ -	\$ 72,377	\$ 82,322	\$ 300,945	\$ 1,130,405	\$ 109,591	\$ -	\$ -	\$ 9,889	\$ -	\$ -	\$ -	\$ 1,705,530
Subtotal - Estimates	\$ -	\$ -	\$ -	\$ (72,377)	\$ (9,945)	\$ (218,622)	\$ (829,460)	\$ 1,020,814	\$ 109,591	\$ -	\$ (9,889)	\$ 9,889	\$ -	\$ -	\$ -	\$ -
Total Commodity Costs	\$ 139,166	\$ 270,783	\$ 293,222	\$ 884,990	\$ 1,834,122	\$ 2,088,305	\$ 1,483,717	\$ 1,501,692	\$ 807,025	\$ 403,902	\$ 240,145	\$ 345,756	\$ 434,808	\$ 503,628	\$ 1,077,968	\$ 12,309,228

(1) Monthly estimates provided in Table 2 of Northern's August 2021 Monthly Cost of Gas Report, submitted in DG 20-154 on August 19, 2021. Estimates updated for September 7, 2021 NYMEX prices

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2020-21 ANNUAL COG RECONCILIATION
SCHEDULE 4: PURCHASED GAS COSTS
August 2020 - October 2021

Demand Costs	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	-----Estimated ⁽¹⁾ -----			Total	
													Aug-21	Sep-21	Oct-21		
Pipeline Reservation																	
Alberta Northeast	\$ 3,705	\$ 5,577	\$ 3,761	\$ 4,174	\$ 3,542	\$ 3,633	\$ 3,850	\$ 3,290	\$ 3,632	\$ 3,518	\$ 3,977	\$ 4,983				\$	47,641
Algonquin	\$ 14,212	\$ 14,212	\$ 36,001	\$ 19,388	\$ 19,388	\$ 19,185	\$ 19,172	\$ 147,029	\$ 189,691	\$ 189,784	\$ 189,784	\$ 189,784				\$	1,047,432
Emera	\$ 275,583	\$ 289,367	\$ 258,980	\$ 256,915	\$ 316,636	\$ 349,666	\$ 428,894	\$ 429,584	\$ 414,581	\$ 447,016	\$ 439,044	\$ 429,653				\$	4,335,918
Granite State	\$ 144,287	\$ 144,287	\$ 144,287	\$ 280,644	\$ 280,644	\$ 280,644	\$ 280,644	\$ 280,644	\$ 280,644	\$ 179,428	\$ 179,428	\$ 179,428				\$	2,655,007
Iroquois	\$ 14,390	\$ 14,390	\$ 14,390	\$ 14,390	\$ 14,060	\$ 14,060	\$ 14,060	\$ 14,060	\$ 14,060	\$ 14,060	\$ 14,060	\$ 14,060				\$	170,041
Maritimes	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,769	\$ 41,033	\$ 41,033	\$ 41,033				\$	140,033
Portland	\$ 305,455	\$ 305,455	\$ 305,455	\$ 305,455	\$ 390,426	\$ 393,492	\$ 393,492	\$ 384,294	\$ 393,492	\$ 390,426	\$ 393,492	\$ 390,426				\$	4,351,363
Tennessee	\$ 137,938	\$ 137,938	\$ 137,938	\$ 137,938	\$ 132,065	\$ 132,065	\$ 132,065	\$ 132,065	\$ 132,065	\$ 132,065	\$ 132,065	\$ 132,065				\$	1,608,270
Texas Eastern	\$ 2,865	\$ 2,879	\$ 2,879	\$ 2,879	\$ 2,813	\$ 2,821	\$ 2,821	\$ 2,787	\$ 2,787	\$ 2,787	\$ 2,787	\$ 2,787				\$	33,894
Total Pipeline Reservation	\$ 898,435	\$ 914,105	\$ 903,690	\$ 1,021,782	\$ 1,159,373	\$ 1,195,566	\$ 1,274,999	\$ 1,424,523	\$ 1,471,985	\$ 1,400,118	\$ 1,395,671	\$ 1,384,220				\$	14,444,467
Product Demand																	
Excelon	\$ -	\$ -	\$ -	\$ -	\$ 121,618	\$ 121,618	\$ 121,618	\$ 121,618	\$ 121,618	\$ -	\$ -	\$ -				\$	608,090
Repsol	\$ 335,475	\$ 335,475	\$ 335,475	\$ 335,475	\$ 327,778	\$ 327,778	\$ 327,778	\$ 327,778	\$ 327,778	\$ 327,778	\$ 327,778	\$ 327,778				\$	3,964,127
Xpress	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,792				\$	36,792
Total Product Demand	\$ 335,475	\$ 335,475	\$ 335,475	\$ 335,475	\$ 449,396	\$ 449,396	\$ 449,396	\$ 449,396	\$ 449,396	\$ 327,778	\$ 364,570	\$ 327,778				\$	4,609,009
Storage Pipeline Transportation and Demand Reservation																	
Emera	\$ 99,021	\$ 99,021	\$ 99,021	\$ 99,021	\$ 96,749	\$ 96,749	\$ 96,749	\$ 96,749	\$ 96,749	\$ 96,749	\$ 96,749	\$ 96,749				\$	1,170,080
Tennessee	\$ 4,362	\$ 4,362	\$ 4,362	\$ 4,362	\$ 4,169	\$ 4,169	\$ 4,169	\$ 4,169	\$ 4,169	\$ 4,169	\$ 4,169	\$ 4,169				\$	50,799
Total Storage & Demand Reservation	\$ 103,383	\$ 103,383	\$ 103,383	\$ 103,383	\$ 100,918	\$ 100,918	\$ 100,918	\$ 100,918	\$ 100,918	\$ 100,918	\$ 100,918	\$ 100,918				\$	1,220,880
Demand Cost Estimates	\$ 1,189,356	\$ 1,194,664	\$ 1,194,681	\$ 1,448,580	\$ 1,458,596	\$ 1,535,362	\$ 1,685,240	\$ 1,751,889	\$ 1,736,554	\$ 1,646,063	\$ 1,639,529	\$ 1,631,891				\$	18,112,405
Demand Cost Reversals	\$ (1,183,761)	\$ (1,189,356)	\$ (1,194,664)	\$ (1,194,681)	\$ (1,448,580)	\$ (1,458,596)	\$ (1,535,362)	\$ (1,685,240)	\$ (1,751,889)	\$ (1,736,554)	\$ (1,646,063)	\$ (1,639,529)				\$	(17,664,275)
Subtotal	\$ 5,595	\$ 5,308	\$ 17	\$ 253,899	\$ 10,016	\$ 76,766	\$ 149,878	\$ 66,649	\$ (15,335)	\$ (90,492)	\$ (6,534)	\$ (7,638)				\$	448,130
Capacity Release ⁽²⁾	\$ (523,555)	\$ (525,520)	\$ (288,536)	\$ (510,673)	\$ (630,146)	\$ (586,224)	\$ (611,023)	\$ (615,486)	\$ (815,302)	\$ (720,196)	\$ (716,693)	\$ (710,715)				\$	(7,254,068)
Company Managed	\$ (21,182)	\$ -	\$ (21,333)	\$ -	\$ (29,506)	\$ -	\$ (103,270)	\$ (105,928)	\$ -	\$ (107,651)	\$ -	\$ (24,589)				\$	(24,589)
Other A&G Allowance	\$ 18,818	\$ 18,818	\$ 18,818	\$ 78,589	\$ 78,589	\$ 78,589	\$ 78,589	\$ 78,589	\$ 78,589	\$ 18,154	\$ 18,154	\$ 18,154				\$	582,449
Local Production and Storage Allowance	\$ -	\$ -	\$ -	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ -	\$ -	\$ -				\$	476,106
Conversion & Re-entry Fees	\$ (42)	\$ (47)	\$ (125)	\$ (86)	\$ (15)	\$ (20)	\$ (28)	\$ (29)	\$ (14)	\$ 828	\$ (1)	\$ (1)				\$	420
Fuel Tax Recovery	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 578	\$ -	\$ 1,958	\$ 4,845	\$ -	\$ -				\$	7,381
Outage Replacement Costs	\$ -	\$ -	\$ -	\$ 114,821	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				\$	-
Total Indirect Demand Costs	\$ (525,961)	\$ (506,749)	\$ (291,176)	\$ (237,999)	\$ (501,727)	\$ (428,304)	\$ (555,803)	\$ (563,503)	\$ (655,418)	\$ (804,021)	\$ (698,540)	\$ (717,151)				\$	(6,486,351)
Estimates - Cap Release & Comp Managed	\$ (529,578)	\$ (529,578)	\$ (534,357)	\$ (696,371)	\$ (649,758)	\$ (679,092)	\$ (688,053)	\$ (835,663)	\$ (744,006)	\$ (702,081)	\$ (702,081)	\$ (701,918)				\$	(7,992,537)
Reversals - Cap Release & Comp Managed	\$ 526,190	\$ 529,578	\$ 529,578	\$ 534,357	\$ 696,371	\$ 649,758	\$ 679,092	\$ 688,053	\$ 835,663	\$ 744,006	\$ 702,081	\$ 702,081				\$	7,816,809
Subtotal	\$ (3,388)	\$ -	\$ (4,779)	\$ (162,013)	\$ 46,613	\$ (29,334)	\$ (8,961)	\$ (147,610)	\$ 91,657	\$ 41,925	\$ -	\$ 164				\$	(175,728)
Annual Demand Costs	\$ 813,539	\$ 851,523	\$ 1,046,611	\$ 1,314,528	\$ 1,264,589	\$ 1,365,008	\$ 1,410,427	\$ 1,330,373	\$ 1,443,204	\$ 976,227	\$ 1,156,086	\$ 1,088,291	\$ 1,143,612	\$ 1,143,612	\$ 1,143,612	\$	17,491,243
Total Gas Costs	\$ 952,706	\$ 1,122,305	\$ 1,339,833	\$ 2,199,518	\$ 3,098,711	\$ 3,453,314	\$ 2,894,144	\$ 2,832,065	\$ 2,250,229	\$ 1,380,129	\$ 1,396,231	\$ 1,434,047	\$ 1,578,420	\$ 1,647,240	\$ 2,221,580	\$	29,800,471

(1) Monthly estimates provided in Table 2 of Northern's August 2021 Monthly Cost of Gas Report, submitted in DG 20-154 on August 19, 2021. Estimates updated for September 7, 2021 NYMEX prices

(2) Includes Asset Management Agreement Revenue

REDACTED

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2020-21 ANNUAL COG RECONCILIATION
COST OF GAS ADJUSTMENT - FORM III, Schedule 4 - UNITS
August 2020 - October 2021

Indicates Confidential Data

Commodity Volumes:	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	-----Estimated ⁽¹⁾ -----			Total
													Aug-21	Sep-21	Oct-21	
Citadel Energy	[REDACTED]															[REDACTED]
DTE Energy	[REDACTED]															
Emera Energy Services Corp.	[REDACTED]															
Repsol	[REDACTED]															
Shell	[REDACTED]															
Southwestern	[REDACTED]															
Xpress Energy	[REDACTED]															
Subtotal - Commodity Supply	[REDACTED]															
Granite	[REDACTED]															
Emera	[REDACTED]															
Emera Energy Services	[REDACTED]															
Maritimes	[REDACTED]															
Tennessee	[REDACTED]															
Subtotal - Commodity Transportation	[REDACTED]															
Commodity Volume Estimates	[REDACTED]															
Commodity Volume Reversals	[REDACTED]															
Subtotal - Estimates	[REDACTED]															
Subtotal - Supply	[REDACTED]															
Withdrawal - Underground Storage	[REDACTED]															
ATV Reconciliation Charges	[REDACTED]															
Off System Sales	[REDACTED]															
Net OBA Adjustment	[REDACTED]															
Company Managed	[REDACTED]															
LNG Withdrawal / Boiloff	[REDACTED]															
Supplier Balancing	[REDACTED]															
Inventory Finance Charge	[REDACTED]															
Subtotal - Other Commodity	[REDACTED]															
Sales for Resale Estimates	[REDACTED]															
Sales for Resale Reversals	[REDACTED]															
Subtotal - Estimates	[REDACTED]															
Total Commodity Volumes	[REDACTED]												102,888	104,952	212,494	

(1) Monthly estimates provided in Table 2 of Northern's August 2021 Monthly Cost of Gas Report, submitted in DG 20-154 on August 19, 2021. Estimates updated for September 7, 2021 NYMEX prices

REDACTED

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2020-21 ANNUAL COG RECONCILIATION
COST OF GAS ADJUSTMENT - FORM III, Schedule 4 - IN COST PER UNIT
August 2020 - October 2021

Indicates Confidential Data

Commodity Costs per Unit:	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	-----Estimated ⁽¹⁾ -----			Total			
													Aug-21	Sep-21	Oct-21				
Citadel																			
DTE Energy																			
Emera Energy Services Corp.													\$	-	\$		-	\$	-
Repsol																			
Shell																			
Southwestern																			
Xpress Energy																			
Subtotal - Commodity Supply																			
Granite																			
Emera																			
Maritimes																			
Tennessee																			
Subtotal - Commodity Transportation	n/a	n/a	n/a																
Commodity Cost Estimates																			
Commodity Cost Reversals																			
Subtotal - Estimates	n/a	n/a	n/a																
Subtotal - Supply																			
Withdrawal - Underground Storage																			
ATV Reconciliation Charges																			
Off System Sales																			
Net OBA Adjustment																			
Company Managed																			
LNG Withdrawal / Boiloff																			
Supplier Balancing																			
Inventory Finance Charge																			
Subtotal - Other Commodity	n/a	n/a	n/a																
Off System Sales Estimates																			
Off System Sales Reversals																			
Subtotal - Estimates																			
Total Commodity Costs per unit	n/a	n/a	n/a																

(1) Monthly estimates provided in Table 2 of Northern 's August 2021 Monthly Cost of Gas Report, submitted in DG 20-154 on August 19, 2021. Estimates updated for September 7, 2021 NYMEX prices

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
DEFERRED WORKING CAPITAL ALLOWANCE ON PURCHASED GAS COSTS
August 2020 - October 2021

ANNUAL BALANCE SEASON - Acct 173

	<u>BEGINNING</u> <u>BALANCE</u>	<u>WORKING CAP</u> <u>ALLOWANCE (1)</u>	<u>WORKING CAP</u> <u>PERCENTAGE</u>	<u>WORKING CAP</u> <u>COLLECTIONS</u>	<u>WORKING CAP</u> <u>DEFERRED</u>	<u>ENDING</u> <u>BALANCE</u>	<u>AVE MONTHLY</u> <u>BALANCE</u>	<u>INTEREST</u> <u>RATE</u>	<u>INTEREST</u>	<u>ENDING BAL</u> <u>W/ INTEREST</u>
	A	B	C	D	E = B + D	F = A + E	G = (A + F) / 2	H	I = G * (H / 12)	K = F + I + J
August 2020	\$ (44,484)									
Adjustment	\$ 197									
August 2020	\$ (44,287)	850	0.0892%	48	898	(43,389)	(43,838)	3.25%	(119)	(43,508)
September	\$ (43,508)	1,001	0.0892%	64	1,065	(42,442)	(42,975)	3.25%	(116)	(42,559)
October	\$ (42,559)	1,195	0.0892%	120	1,315	(41,244)	(41,901)	3.25%	(113)	(41,358)
November	\$ (41,358)	1,962	0.0892%	1,469	3,431	(37,927)	(39,642)	3.25%	(107)	(38,034)
December	\$ (38,034)	2,764	0.0892%	2,330	5,095	(32,940)	(35,487)	3.25%	(96)	(33,036)
January 2021	\$ (33,036)	3,080	0.0892%	2,854	5,935	(27,101)	(30,068)	3.25%	(81)	(27,182)
February	\$ (27,182)	2,582	0.0892%	2,609	5,191	(21,992)	(24,587)	3.25%	(67)	(22,058)
March	\$ (22,058)	2,526	0.0892%	2,228	4,754	(17,304)	(19,681)	3.25%	(53)	(17,357)
April	\$ (17,357)	2,007	0.0892%	1,204	3,211	(14,146)	(15,752)	3.25%	(43)	(14,189)
May	\$ (14,189)	1,231	0.0892%	1,467	2,698	(11,491)	(12,840)	3.25%	(35)	(11,526)
June	\$ (11,526)	1,245	0.0892%	411	1,657	(9,869)	(10,697)	3.25%	(29)	(9,898)
July	\$ (9,898)	1,279	0.0892%	761	2,040	(7,858)	(8,878)	3.25%	(24)	(7,882)
Estimated August	\$ (7,882)	725	0.0892%	(500)	225	(7,656)	(7,769)	3.25%	(21)	(7,677)
Estimated September	\$ (7,677)	733	0.0892%	(500)	233	(7,445)	(7,561)	3.25%	(20)	(7,465)
Estimated October	\$ (7,465)	1,030	0.0892%	(850)	180	(7,285)	(7,375)	3.25%	(20)	(7,305)

(1) Working Capital Allowance calculated by taking monthly Total Gas Costs from Schedule 4, Page 2, and multiplying by (10.02/365)* prime interest rate.

Winter Season Sales Percentage	79.87%
Summer Season Sales Percentage	20.13%
Reconciliation Allocated to Winter Season	\$ (5,834)
Reconciliation Allocated to Summer Season	\$ (1,470)

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
BAD DEBT EXPENSE - CALCULATION OF COLLECTION ALLOWANCE
August 2020 - October 2021

ANNUAL BALANCE- Acct 173

	<u>BEGINNING BALANCE</u>	<u>ACUTAL BAD DEBT</u>	<u>BAD DEBT COLLECTIONS</u>	<u>DEFERRED BALANCE</u>	<u>ENDING BALANCE</u>	<u>AVE MO BALANCE</u>	<u>INTEREST RATE</u>	<u>INTEREST</u>	<u>END BAL W/ INTEREST</u>
	A	B	C	D = B + C	E = A + D	F = (A + E) / 2	G	H = (F * G) / 12	J = E + H + I
August 2020	(\$24,891)	6,359	(1,232)	5,127	(19,764)	(22,328)	3.25%	(60)	(19,825)
September	(\$19,825)	12,905	(1,677)	11,229	(8,596)	(14,210)	3.25%	(38)	(8,635)
October	(\$8,635)	3,830	(2,582)	1,248	(7,386)	(8,010)	3.25%	(22)	(7,408)
November	(\$7,408)	4,903	(17,172)	(12,269)	(19,677)	(13,543)	3.25%	(37)	(19,714)
December	(\$19,714)	10,407	(25,638)	(15,231)	(34,945)	(27,329)	3.25%	(74)	(35,019)
January 2021	(\$35,019)	12,015	(31,354)	(19,339)	(54,358)	(44,688)	3.25%	(121)	(54,479)
February	(\$54,479)	2,685	(28,673)	(25,988)	(80,467)	(67,473)	3.25%	(183)	(80,649)
March	(\$80,649)	5,854	(24,514)	(18,660)	(99,310)	(89,980)	3.25%	(244)	(99,554)
April	(\$99,554)	4,358	(13,290)	(8,932)	(108,486)	(104,020)	3.25%	(282)	(108,768)
May	(\$108,768)	734	(3,422)	(2,688)	(111,456)	(110,112)	3.25%	(298)	(111,754)
June	(\$111,754)	9,403	(995)	8,408	(103,346)	(107,550)	3.25%	(291)	(103,637)
July	(\$103,637)	9,523	(2,268)	7,255	(96,382)	(100,010)	3.25%	(271)	(96,653)
Estimated August	(\$96,653)	10,000	(850)	9,150	(87,503)	(92,078)	3.25%	(249)	(87,753)
Estimated September	(\$87,753)	10,000	(875)	9,125	(78,628)	(83,190)	3.25%	(225)	(78,853)
Estimated October	(\$78,853)	2,000	(500)	1,500	(77,353)	(78,103)	3.25%	(212)	(77,564)

Winter Season Sales Percentage 79.87%
Summer Season Sales Percentage 20.13%

Reconciliation Allocated to Winter Season \$ (61,950)
Reconciliation Allocated to Summer Season \$ (15,614)

Northern Utilities, Inc. - New Hampshire Division
Environmental Response Costs
May 2020 - October 2021

		Beginning Balance	Firm Sales and Transportation (therms)	ERC Rate Recoveries /Passback	Current ERC Recoveries/ Passbacks	Ending Balance
May 2020	(act)	\$ 130,988	4,861,662	\$ 0.0057	\$ 27,710	\$ 103,277.64
June 2020	(act)	\$ 103,278	3,038,865	\$ 0.0057	\$ 17,331	\$ 85,947.07
July 2020	(act)	\$ 85,947	2,540,626	\$ 0.0057	\$ 14,489	\$ 71,457.96
August 2020	(act)	\$ 71,458	2,401,297	\$ 0.0057	\$ 13,698	\$ 57,759.86
September 2020	(act)	\$ 57,760	2,933,578	\$ 0.0057	\$ 16,730	\$ 41,029.68
October 2020	(act)	\$ 41,030	3,479,470	\$ 0.0057	\$ 19,863	\$ 21,166.39
November 2020	(act)	\$ 439,696 ⁽¹⁾	5,519,681	\$ 0.0059 ⁽²⁾	\$ 32,902	\$ 406,794.08
December 2020	(act)	\$ 406,794	8,367,336	\$ 0.0061	\$ 51,043	\$ 355,750.77
January 2021	(act)	\$ 355,751	10,114,055	\$ 0.0061	\$ 61,701	\$ 294,050.20
February 2021	(act)	\$ 294,050	11,010,433	\$ 0.0061	\$ 67,167	\$ 226,883.46
March 2021	(act)	\$ 226,883	10,551,678	\$ 0.0061	\$ 64,367	\$ 162,516.12
April 2021	(act)	\$ 162,516	6,201,510	\$ 0.0061	\$ 37,834	\$ 124,682.50
May 2021	(act)	\$ 124,683	4,655,705	\$ 0.0061	\$ 28,409	\$ 96,273.40
June 2021	(act)	\$ 96,273	2,985,287	\$ 0.0061	\$ 18,225	\$ 78,048.39
July 2021	(act)	\$ 78,048	2,992,333	\$ 0.0061	\$ 18,264	\$ 59,784.48
August 2021	(est)	\$ 59,784	2,728,710	\$ 0.0061	\$ 16,645	\$ 43,139
September 2021	(est)	\$ 43,139	2,821,820	\$ 0.0061	\$ 17,213	\$ 25,926
October 2021	(est)	\$ 25,926	3,685,223	\$ 0.0061	\$ 22,480	\$ 3,446

(1) November Beginning Balance includes \$421,540 amortization from all prior years at 1/7 of annual costs.
(See Section 4.7 of Tariff.)

(2) November Current ERC Recoveries/Passbacks reflect an Average ERC Rate based on actual Firm Sales and Transportation (therms) at \$0.0057 and actual Firm Sales and Transportation (therms) at \$0.0060.

**NORTHERN UTILITIES
NEW HAMPSHIRE DIVISION
RLIARA Reconciliation
May 2020 - October 2021**

		<u>Beginning Balance</u>	<u>Program Costs</u>	<u>Regulatory Assessments</u>	<u>RLIARA Recoveries</u>	<u>Ending Balance</u>	<u>Average Monthly Balance</u>	<u>Interest Rate</u>	<u>Interest</u>	<u>Ending Balance w/Interest</u>
		A	B	C	D	E = A+B+C-D	F = (A+E)/2	G	H = F*(G/12)	I = E+H
May 2020	Actual	\$ (86,723)	\$ 24,284	\$ 6,013	\$ 17,501	\$ (73,928)	\$ (80,326)	4.75%	\$ (318)	\$ (74,246)
June 2020	Actual	\$ (74,246)	\$ 18,438	\$ 6,013	\$ 10,934	\$ (60,729)	\$ (67,487)	4.75%	\$ (267)	\$ (60,996)
July 2020	Actual	\$ (60,996)	\$ 12,176	\$ 6,013	\$ 9,142	\$ (51,948)	\$ (56,472)	3.25%	\$ (153)	\$ (52,101)
August 2020	Actual	\$ (52,101)	\$ 11,381	\$ 6,013	\$ 8,638	\$ (43,345)	\$ (47,723)	3.25%	\$ (129)	\$ (43,474)
September 2020	Actual	\$ (43,474)	\$ 11,506	\$ (10,558)	\$ 10,555	\$ (53,081)	\$ (48,278)	3.25%	\$ (131)	\$ (53,212)
October 2020	Actual	\$ (53,212)	\$ 12,912	\$ 6,893	\$ 12,568	\$ (45,975)	\$ (49,594)	3.25%	\$ (134)	\$ (46,110)
November 2020	Actual	\$ (46,110)	\$ 21,680	\$ 6,893	\$ 22,745	\$ (40,282)	\$ (43,196)	3.25%	\$ (117)	\$ (40,399)
December 2020	Actual	\$ (40,399)	\$ 39,553	\$ 6,893	\$ 36,817	\$ (30,770)	\$ (35,585)	3.25%	\$ (96)	\$ (30,867)
January 2021	Actual	\$ (30,867)	\$ 48,032	\$ 6,893	\$ 44,508	\$ (20,449)	\$ (25,658)	3.25%	\$ (69)	\$ (20,518)
February 2021	Actual	\$ (20,518)	\$ 57,968	\$ 6,893	\$ 48,446	\$ (4,103)	\$ (12,311)	3.25%	\$ (33)	\$ (4,136)
March 2021	Actual	\$ (4,136)	\$ 70,145	\$ 6,893	\$ 46,428	\$ 26,474	\$ 11,169	3.25%	\$ 30	\$ 26,505
April 2021	Actual	\$ 26,505	\$ 40,179	\$ 6,893	\$ 27,287	\$ 46,289	\$ 36,397	3.25%	\$ 99	\$ 46,388
May 2021	Actual	\$ 46,388	\$ 16,330	\$ 6,893	\$ 20,483	\$ 49,127	\$ 47,757	3.25%	\$ 129	\$ 49,257
June 2021	Actual	\$ 49,257	\$ 756	\$ 6,893	\$ 13,128	\$ 43,777	\$ 46,517	3.25%	\$ 126	\$ 43,903
July 2021	Actual	\$ 43,903	\$ -	\$ 6,893	\$ 13,163	\$ 37,633	\$ 40,768	3.25%	\$ 110	\$ 37,744
August 2021	Est.	\$ 37,744	\$ -	\$ 5,292	\$ 12,006	\$ 31,029	\$ 34,386	3.25%	\$ 93	\$ 31,122
September 2021	Est.	\$ 31,122	\$ -	\$ 5,292	\$ 12,416	\$ 23,999	\$ 27,561	3.25%	\$ 75	\$ 24,073
October 2021	Est.	\$ 24,073	\$ -	\$ 5,292	\$ 16,215	\$ 13,150	\$ 18,612	3.25%	\$ 50	\$ 13,201

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
SALES VARIANCE ANALYSIS

	<u>Aug-20</u>	<u>Sep-20</u>	<u>Oct-20</u>	<u>Nov-20</u>	<u>Dec-20</u>	<u>Jan-21</u>	<u>Feb-21</u>	<u>Mar-21</u>	<u>Apr-21</u>	<u>May-21</u>	<u>Jun-21</u>	<u>Jul-21</u>	<u>TOTAL</u>
Forecast Bill Month Sales	104,573	107,393	132,485	294,521	541,934	702,409	817,468	680,722	452,687	265,253	148,939	102,281	4,350,666
Actual Sales	<u>77,571</u>	<u>103,615</u>	<u>132,079</u>	<u>290,099</u>	<u>504,398</u>	<u>641,083</u>	<u>727,019</u>	<u>683,052</u>	<u>345,533</u>	<u>230,509</u>	<u>116,804</u>	<u>114,357</u>	<u>3,966,118</u>
Difference	<u>(27,002)</u>	<u>(3,779)</u>	<u>(406)</u>	<u>(4,422)</u>	<u>(37,536)</u>	<u>(61,326)</u>	<u>13,698</u>	<u>2,330</u>	<u>(107,154)</u>	<u>(34,745)</u>	<u>(32,135)</u>	<u>12,075</u>	<u>(384,548)</u>
Normal Bill Month Actual Sales	77,571	103,615	132,079	332,383	546,059	701,880	777,437	599,273	410,072	230,509	116,804	114,357	4,142,038
Actual Sales	<u>77,571</u>	<u>103,615</u>	<u>132,079</u>	<u>290,099</u>	<u>504,398</u>	<u>641,083</u>	<u>727,019</u>	<u>683,052</u>	<u>345,533</u>	<u>230,509</u>	<u>116,804</u>	<u>114,357</u>	<u>3,966,118</u>
Weather Variance	<u>-</u>	<u>-</u>	<u>-</u>	<u>42,284</u>	<u>41,662</u>	<u>60,797</u>	<u>50,418</u>	<u>(83,780)</u>	<u>64,539</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>175,920</u>
Total Variance Excluding Weather (excl weather effect)	<u>(27,002)</u>	<u>(3,779)</u>	<u>(406)</u>	<u>37,862</u>	<u>4,125</u>	<u>(529)</u>	<u>64,116</u>	<u>(81,449)</u>	<u>(42,615)</u>	<u>(34,745)</u>	<u>(32,135)</u>	<u>12,075</u>	<u>(208,628)</u>
Variance-difference due to meter count -difference in load pattern													3,044 <u>(447,801)</u>
Total Sales Variance													<u>(444,757)</u>

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
SALES VARIANCE ANALYSIS
August 2019 - July 2020

	<u>NORMAL MMBtu</u>			<u>METERS</u>		
	2020-21	2020-21	Difference	2020-21	2020-21	Difference
	Forecast	Actual		Forecast	Actual	
Res Heat	1,995,194	1,804,018	(191,176)	315,704	322,386	6,682
Res General	23,534	24,182	648	15,048	15,724	676
Total Res	2,018,728	1,828,199	(190,528)	330,752	338,110	7,358
G-40	960,465	862,510	(97,956)	54,544	55,858	1,314
G-50	170,442	134,879	(35,562)	8,901	9,071	170
G-41	721,741	692,124	(29,617)	5,089	4,883	(206)
G-51	239,930	229,440	(10,490)	1,897	1,747	(150)
G-42	106,561	141,129	34,568	125	126	1
G-52	193,009	77,838	(115,171)	30	27	(3)
Total C & I	2,392,148	2,137,919	(254,229)	70,586	71,712	1,126
Total Company	4,410,875	3,966,119	(444,757)	401,338	409,822	8,484

	<u>NORMAL AVERAGE USE</u>			<u>Change in Sales Due to</u>		<u>Total Chg</u>	<u>%</u>
	2020-21	2020-21	Difference	<u>Change In:</u>			
	Forecast	Actual			<u>Meter Count</u>	<u>Load Pattern</u>	<u>MMBtu</u>
Res Heat	6.32	5.60	(0.72)	42,229	(233,405)	(191,176)	-9.58%
Res General	1.56	1.54	(0.03)	1,057	(409)	648	2.75%
Total Res	7.88	7.13	(0.75)	43,286	(233,815)	(190,528)	-9.44%
G-40	17.61	15.44	(2.17)	23,138	(121,094)	(97,956)	-10.20%
G-50	19.15	14.87	(4.28)	3,255	(38,818)	(35,562)	-20.86%
G-41	141.82	141.74	(0.08)	(29,216)	(402)	(29,617)	-4.10%
G-51	126.48	131.33	4.85	(18,972)	8,481	(10,490)	-4.37%
G-42	852.48	1,120.07	267.59	852	33,716	34,568	32.44%
G-52	6,433.65	2,882.89	(3,550.76)	(19,301)	(95,870)	(115,171)	-59.67%
Total C & I	33.89	29.81	(4.08)	(40,242)	(213,986)	(254,229)	-10.63%
Total Company	10.99	9.68	(1.31)	3,044	(447,801)	(444,757)	-10.08%