

Northern Utilities, Inc.
 New Hampshire Division
 Billed Distribution Service Volumes and Meter Counts

Total Division Metered Deliveries (Dth)											
2022-2023		2022-2023 Compared to 2021-2022				2022-2023 Compared to 2020-2021					
Forecast	2021-2022 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	2020-2021 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	
1	2	3	4	5	6	7	8	9	10	11	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(3-5)	Note 4.	(1-5)	(6/5)	Note 5.	(8-10)	
Nov	707,240	686,286	20,954	3.1%	16,583	4,371	681,275	25,964	3.8%	28,188	-2,224
Dec	1,044,293	986,864	57,428	5.8%	22,398	35,031	1,006,190	38,102	3.8%	41,818	-3,716
Jan	1,253,703	1,245,140	8,563	0.7%	29,037	-20,475	1,185,985	67,718	5.7%	49,689	18,029
Feb	1,276,489	1,202,527	73,962	6.2%	27,988	45,974	1,216,725	59,764	4.9%	50,259	9,505
Mar	1,140,573	1,187,573	-47,001	-4.0%	27,508	-74,509	1,153,597	-13,024	-1.1%	47,114	-60,138
Apr	831,157	812,221	18,936	2.3%	18,750	186	800,853	30,304	3.8%	30,024	281
May	591,576	558,280	33,296	6.0%	12,808	20,488	598,944	-7,367	-1.2%	21,830	-29,197
Jun	424,207	422,350	1,856	0.4%	9,949	-8,093	396,066	28,141	7.1%	18,768	9,372
Jul	390,362	388,256	2,106	0.5%	9,177	-7,071	399,523	-9,161	-2.3%	19,000	-28,160
Aug	379,912	377,834	2,078	0.6%	8,933	-6,855	365,908	14,004	3.8%	17,394	-3,390
Sep	385,483	383,775	1,709	0.4%	9,092	-7,383	366,793	18,691	5.1%	17,462	1,228
Oct	499,870	498,659	1,211	0.2%	11,845	-10,634	475,230	24,640	5.2%	22,719	1,921
Winter	6,253,454	6,120,613	132,842	2.2%	142,264	-9,422	6,044,625	208,830	3.5%	246,269	-37,439
Summer	2,671,411	2,629,155	42,256	1.6%	61,804	-19,548	2,602,464	68,947	2.6%	118,974	-50,027
Annual	8,924,865	8,749,768	175,098	2.0%	204,068	-28,970	8,647,089	277,776	3.2%	373,769	-95,992

22 Note 1 Company Forecast
 23 Note 2 Pages 2 - 4; Sum of Column 2 of Billed Deliveries table. Actual Data through April is weather normalized.
 24 Note 3 Column 3 of Meter Counts table times Column 2 of Use Per Meter table.
 25 Note 4 Pages 2 - 4; Sum of Column 7 of Billed Deliveries Table. Actual Data provided is weather normalized.
 26 Note 5 Column 6 of Meter Counts table times Column 5 of Use Per Meter table.

Total Division Meter Counts							
2022-2023		Compared to 2021-2022			Compared to 2020-2021		
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	36,621	35,757	864	2.4%	35,166	1,455	4.1%
Dec	36,815	35,998	817	2.3%	35,346	1,469	4.2%
Jan	36,904	36,063	841	2.3%	35,420	1,484	4.2%
Feb	36,931	36,091	840	2.3%	35,466	1,465	4.1%
Mar	36,928	36,092	836	2.3%	35,479	1,449	4.1%
Apr	36,917	36,084	833	2.3%	35,583	1,334	3.7%
May	36,741	35,917	824	2.3%	35,449	1,292	3.6%
Jun	36,934	36,084	850	2.4%	35,263	1,671	4.7%
Jul	36,853	36,002	851	2.4%	35,180	1,673	4.8%
Aug	36,801	35,951	850	2.4%	35,131	1,670	4.8%
Sep	36,902	36,048	854	2.4%	35,225	1,677	4.8%
Oct	37,238	36,374	864	2.4%	35,539	1,699	4.8%
Winter	36,853	36,014	839	2.3%	35,410	1,443	4.1%
Summer	36,912	36,063	849	2.4%	35,298	1,614	4.6%
Annual	36,882	36,038	844	2.3%	35,354	1,528	4.3%

49 Note 1 Company Forecast
 50 Note 2 Actual data through April. Forecast data beginning June. Page 2 - 4; Sum of Column 2 of Meter Counts table.
 51 Note 3 Actual Data. Page 2 - 4; Sum of Column 5 of Meter Counts table.

Total Division Use Per Meter							
2022-2023		Compared to 2021-2022			Compared to 2020-2021		
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	19.31	19.19	0.12	0.6%	19.37	-0.06	-0.3%
Dec	28.37	27.41	0.95	3.5%	28.47	-0.10	-0.4%
Jan	33.97	34.53	-0.55	-1.6%	33.48	0.49	1.5%
Feb	34.56	33.32	1.24	3.7%	34.31	0.26	0.8%
Mar	30.89	32.90	-2.02	-6.1%	32.51	-1.63	-5.0%
Apr	22.51	22.51	0.01	0.0%	22.51	0.01	0.0%
May	16.10	15.54	0.56	3.6%	16.90	-0.79	-4.7%
Jun	11.49	11.70	-0.22	-1.9%	11.23	0.25	2.3%
Jul	10.59	10.78	-0.19	-1.8%	11.36	-0.76	-6.7%
Aug	10.32	10.51	-0.19	-1.8%	10.42	-0.09	-0.9%
Sep	10.45	10.65	-0.20	-1.9%	10.41	0.03	0.3%
Oct	13.42	13.71	-0.29	-2.1%	13.37	0.05	0.4%
Winter	169.69	169.95	-0.26	-0.2%	170.70	-1.04	-0.6%
Summer	72.37	72.91	-0.53	-0.7%	73.73	-1.31	-1.8%
Annual	241.98	242.79	-0.81	-0.3%	244.59	-2.35	-1.0%

74 Note 1 Column 1 of Billed Deliveries table divided by Column 1 of Meter Counts table.
 75 Note 2 Column 2 of Billed Deliveries table divided by Column 2 of Meter Counts table.
 76 Note 3 Column 7 of Billed Deliveries table divided by Column 5 of Meter Counts table.

Northern Utilities, Inc.
 New Hampshire Division
 Billed Distribution Service Volumes and Meter Counts

Residential Non-Heat Metered Deliveries (Dth)											
2022-2023	2022-2023 Compared to 2021-2022					2022-2023 Compared to 2020-2021					
Forecast	2021-2022 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	2020-2021 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	
1	2	3	4	5	6	7	8	9	10	11	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(3-5)	Note 4.	(1-5)	(6/5)	Note 5.	(8-10)	
Nov	1,739	1,777	-38	-2.1%	-21	-16	1,817	-78	-4.3%	-52	-25
Dec	2,696	2,770	-74	-2.7%	-33	-41	2,707	-10	-0.4%	-78	68
Jan	3,125	3,525	-400	-11.4%	-42	-358	3,275	-151	-4.6%	-90	-61
Feb	3,164	3,518	-354	-10.1%	-42	-312	3,365	-201	-6.0%	-90	-111
Mar	2,636	3,265	-629	-19.3%	-39	-590	3,173	-537	-16.9%	-92	-445
Apr	2,091	2,260	-169	-7.5%	-26	-143	2,205	-114	-5.2%	-67	-47
May	1,677	1,719	-42	-2.5%	-21	-21	1,816	-139	-7.6%	-49	-90
Jun	1,420	1,427	-7	-0.5%	-17	10	1,402	18	1.3%	-33	51
Jul	1,271	1,277	-6	-0.5%	-15	9	1,311	-40	-3.0%	-31	-9
Aug	1,199	1,205	-6	-0.5%	-15	9	1,241	-42	-3.4%	-30	-13
Sep	1,220	1,226	-6	-0.5%	-15	9	1,169	51	4.4%	-28	80
Oct	1,309	1,315	-6	-0.4%	-15	10	1,272	36	2.9%	-29	66
Winter	15,452	17,116	-1,664	-9.7%	-204	-1,460	16,543	-1,091	-6.6%	-473	-618
Summer	8,095	8,168	-73	-0.9%	-99	25	8,211	-116	-1.4%	-200	84
Annual	23,547	25,284	-1,737	-6.9%	-303	-1,435	24,754	-1,206	-4.9%	-654	-552

- 22 Note 1 Company Forecast
- 23 Note 2 Actual, weather normalized data through April. Forecast data beginning June.
- 24 Note 3 Column 3 of Meter Counts table times Column 2 of Use Per Meter table.
- 25 Note 4 Actual, weather normalized data through May. Forecast data beginning June.
- 26 Note 5 Column 6 of Meter Counts table times Column 5 of Use Per Meter table.

Total Division Meter Counts							
2022-2023	Compared to 2021-2022			Compared to 2020-2021			
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	1,244	1,259	-15	-1.2%	1,281	-37	-2.9%
Dec	1,239	1,254	-15	-1.2%	1,276	-37	-2.9%
Jan	1,240	1,255	-15	-1.2%	1,275	-35	-2.7%
Feb	1,238	1,253	-15	-1.2%	1,272	-34	-2.7%
Mar	1,242	1,257	-15	-1.2%	1,279	-37	-2.9%
Apr	1,272	1,287	-15	-1.2%	1,312	-40	-3.0%
May	1,298	1,314	-16	-1.2%	1,334	-36	-2.7%
Jun	1,308	1,324	-16	-1.2%	1,340	-32	-2.4%
Jul	1,310	1,326	-16	-1.2%	1,342	-32	-2.4%
Aug	1,303	1,319	-16	-1.2%	1,335	-32	-2.4%
Sep	1,288	1,304	-16	-1.2%	1,320	-32	-2.4%
Oct	1,265	1,280	-15	-1.2%	1,295	-30	-2.3%
Winter	1,246	1,261	-15	-1.2%	1,283	-37	-2.9%
Summer	1,295	1,311	-16	-1.2%	1,328	-32	-2.4%
Annual	1,271	1,286	-15	-1.2%	1,305	-35	-2.6%

- 49 Note 1 Company Forecast
- 50 Note 2 Actual data through April. Forecast data beginning June.
- 51 Note 3 Actual Data.

Total Division Use Per Meter							
2022-2023	Compared to 2021-2022			Compared to 2020-2021			
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	1.40	1.41	-0.01	-0.9%	1.42	-0.02	-1.4%
Dec	2.18	2.21	-0.03	-1.5%	2.12	0.05	2.6%
Jan	2.52	2.81	-0.29	-10.3%	2.57	-0.05	-1.9%
Feb	2.56	2.81	-0.25	-9.0%	2.65	-0.09	-3.4%
Mar	2.12	2.60	-0.47	-18.3%	2.48	-0.36	-14.4%
Apr	1.64	1.76	-0.11	-6.4%	1.68	-0.04	-2.2%
May	1.29	1.31	-0.02	-1.3%	1.36	-0.07	-5.1%
Jun	1.09	1.08	0.01	0.7%	1.05	0.04	3.7%
Jul	0.97	0.96	0.01	0.7%	0.98	-0.01	-0.7%
Aug	0.92	0.91	0.01	0.7%	0.93	-0.01	-1.0%
Sep	0.95	0.94	0.01	0.7%	0.89	0.06	7.0%
Oct	1.03	1.03	0.01	0.7%	0.98	0.05	5.3%
Winter	12.40	13.58	-1.17	-8.6%	12.90	-0.50	-3.9%
Summer	6.25	6.23	0.02	0.3%	6.18	0.07	1.1%
Annual	18.53	19.66	-1.13	-5.7%	18.97	-0.43	-2.3%

- 74 Note 1 Column 1 of Billed Deliveries table divided by Column 1 of Meter Counts table.
- 75 Note 2 Column 2 of Billed Deliveries table divided by Column 2 of Meter Counts table.
- 76 Note 3 Column 7 of Billed Deliveries table divided by Column 5 of Meter Counts table.

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 Billed Distribution Service Volumes and Meter Counts

Residential Heat Metered Deliveries (Dth)											
2022-2023	2022-2023 Compared to 2021-2022					2022-2023 Compared to 2020-2021					
Forecast	2021-2022 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	2020-2021 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	
1	2	3	4	5	6	7	8	9	10	11	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(3-5)	Note 4.	(1-5)	(6/5)	Note 5.	(8-10)	
Nov	140,526	138,242	2,284	1.7%	4,151	-1,867	137,379	3,147	2.3%	7,188	-4,041
Dec	273,585	264,444	9,141	3.5%	7,432	1,708	261,979	11,606	4.4%	13,701	-2,095
Jan	354,260	345,751	8,509	2.5%	10,002	-1,493	329,535	24,725	7.5%	17,268	7,457
Feb	374,149	335,107	39,042	11.7%	9,674	29,368	346,846	27,302	7.9%	18,119	9,183
Mar	311,765	329,730	-17,966	-5.4%	9,459	-27,425	316,228	-4,463	-1.4%	16,784	-21,247
Apr	210,937	193,539	17,398	9.0%	5,539	11,860	195,419	15,519	7.9%	9,449	6,070
May	117,054	102,103	14,951	14.6%	2,906	12,045	116,151	902	0.8%	5,413	-4,511
Jun	61,772	59,674	2,098	3.5%	1,740	359	49,968	11,804	23.6%	2,944	8,860
Jul	40,317	38,925	1,391	3.6%	1,138	253	36,303	4,014	11.1%	2,147	1,867
Aug	35,001	33,789	1,212	3.6%	988	223	33,956	1,045	3.1%	2,008	-963
Sep	36,615	35,347	1,269	3.6%	1,036	233	33,653	2,963	8.8%	1,994	969
Oct	66,022	63,746	2,276	3.6%	1,873	403	64,654	1,369	2.1%	3,841	-2,472
Winter	1,665,222	1,606,813	58,409	3.6%	46,257	12,152	1,587,385	77,837	4.9%	82,192	-4,355
Summer	356,781	333,583	23,197	7.0%	9,681	13,516	334,684	22,096	6.6%	19,100	2,997
Annual	2,022,002	1,940,397	81,606	4.2%	55,938	25,668	1,922,069	99,933	5.2%	104,608	-4,675

- 22 Note 1 Company Forecast
- 23 Note 2 Actual, weather normalized data through April. Forecast data beginning June.
- 24 Note 3 Column 3 of Meter Counts table times Column 2 of Use Per Meter table.
- 25 Note 4 Actual, weather normalized data through May. Forecast data beginning June.
- 26 Note 5 Column 6 of Meter Counts table times Column 5 of Use Per Meter table.

Total Division Meter Counts							
2022-2023	Compared to 2021-2022			Compared to 2020-2021			
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	28,198	27,376	822	3.0%	26,796	1,402	5.2%
Dec	28,350	27,575	775	2.8%	26,941	1,409	5.2%
Jan	28,418	27,619	799	2.9%	27,003	1,415	5.2%
Feb	28,441	27,643	798	2.9%	27,029	1,412	5.2%
Mar	28,472	27,678	794	2.9%	27,037	1,435	5.3%
Apr	28,467	27,675	792	2.9%	27,154	1,313	4.8%
May	28,364	27,579	785	2.8%	27,101	1,263	4.7%
Jun	28,593	27,783	810	2.9%	27,002	1,591	5.9%
Jul	28,551	27,740	811	2.9%	26,957	1,594	5.9%
Aug	28,499	27,689	810	2.9%	26,908	1,591	5.9%
Sep	28,588	27,774	814	2.9%	26,989	1,599	5.9%
Oct	28,835	28,012	823	2.9%	27,218	1,617	5.9%
Winter	28,391	27,594	797	2.9%	26,993	1,398	5.2%
Summer	28,572	27,763	809	2.9%	27,029	1,543	5.7%
Annual	28,481	27,679	803	2.9%	27,011	1,470	5.4%

- 49 Note 1 Company Forecast
- 50 Note 2 Actual data through April. Forecast data beginning June.
- 51 Note 3 Actual Data.

Total Division Use Per Meter							
2022-2023	Compared to 2021-2022			Compared to 2020-2021			
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	4.98	5.05	-0.07	-1.3%	5.13	-0.14	-2.8%
Dec	9.65	9.59	0.06	0.6%	9.72	-0.07	-0.8%
Jan	12.47	12.52	-0.05	-0.4%	12.20	0.26	2.2%
Feb	13.16	12.12	1.03	8.5%	12.83	0.32	2.5%
Mar	10.95	11.91	-0.96	-8.1%	11.70	-0.75	-6.4%
Apr	7.41	6.99	0.42	6.0%	7.20	0.21	3.0%
May	4.13	3.70	0.42	11.5%	4.29	-0.16	-3.7%
Jun	2.16	2.15	0.01	0.6%	1.85	0.31	16.7%
Jul	1.41	1.40	0.01	0.6%	1.35	0.07	4.9%
Aug	1.23	1.22	0.01	0.6%	1.26	-0.03	-2.7%
Sep	1.28	1.27	0.01	0.6%	1.25	0.03	2.7%
Oct	2.29	2.28	0.01	0.6%	2.38	-0.09	-3.6%
Winter	58.65	58.23	0.42	0.7%	58.81	-0.16	-0.3%
Summer	12.49	12.02	0.47	3.9%	12.38	0.13	1.1%
Annual	70.99	70.10	0.89	1.3%	71.16	-0.03	0.0%

- 74 Note 1 Column 1 of Billed Deliveries table divided by Column 1 of Meter Counts table.
- 75 Note 2 Column 2 of Billed Deliveries table divided by Column 2 of Meter Counts table.
- 76 Note 3 Column 7 of Billed Deliveries table divided by Column 5 of Meter Counts table.

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Total Division C&I Metered Deliveries (Dth)											
2022-2023		2022-2023 Compared to 2021-2022				2022-2023 Compared to 2020-2021					
Forecast	2021-2022 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	2020-2021 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	
1	2	3	4	5	6	7	8	9	10	11	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(3-5)	Note 4.	(1-5)	(6/5)	Note 5.	(8-10)	
Nov	564,974	546,267	18,707	3.4%	4,372	14,335	542,080	22,895	4.2%	6,882	16,013
Dec	768,012	719,649	48,362	6.7%	5,722	42,640	741,505	26,506	3.6%	10,089	16,417
Jan	896,318	895,864	453	0.1%	7,103	-6,650	853,174	43,144	5.1%	12,424	30,720
Feb	899,176	863,902	35,274	4.1%	6,844	28,430	866,513	32,663	3.8%	10,522	22,141
Mar	826,172	854,579	-28,407	-3.3%	6,806	-35,213	834,196	-8,024	-1.0%	5,939	-13,964
Apr	618,129	616,422	1,706	0.3%	4,847	-3,140	603,229	14,900	2.5%	5,170	9,730
May	472,846	454,458	18,388	4.0%	3,559	14,829	480,976	-8,130	-1.7%	4,457	-12,588
Jun	361,015	361,250	-235	-0.1%	2,900	-3,135	344,696	16,319	4.7%	5,578	10,741
Jul	348,775	348,054	721	0.2%	2,810	-2,089	361,910	-13,135	-3.6%	5,838	-18,973
Aug	343,713	342,841	872	0.3%	2,765	-1,893	330,711	13,002	3.9%	5,329	7,672
Sep	347,648	347,202	446	0.1%	2,790	-2,344	331,971	15,677	4.7%	5,280	10,396
Oct	432,539	433,598	-1,060	-0.2%	3,429	-4,488	409,304	23,235	5.7%	6,525	16,710
Winter	4,572,780	4,496,683	76,097	1.7%	35,694	40,403	4,440,697	132,083	3.0%	50,834	81,250
Summer	2,306,535	2,287,403	19,132	0.8%	18,252	880	2,259,569	46,966	2.1%	33,693	13,273
Annual	6,879,316	6,784,087	95,229	1.4%	53,946	41,283	6,700,266	179,050	2.7%	88,146	90,904

- 22 Note 1 Company Forecast
- 23 Note 2 Actual, weather normalized data through April. Forecast data beginning June.
- 24 Note 3 Column 3 of Meter Counts table times Column 2 of Use Per Meter table.
- 25 Note 4 Actual, weather normalized data through May. Forecast data beginning June.
- 26 Note 5 Column 6 of Meter Counts table times Column 5 of Use Per Meter table.

Total Division Meter Counts							
2022-2023		Compared to 2021-2022			Compared to 2020-2021		
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	7,179	7,122	57	0.8%	7,089	90	1.3%
Dec	7,226	7,169	57	0.8%	7,129	97	1.4%
Jan	7,246	7,189	57	0.8%	7,142	104	1.5%
Feb	7,252	7,195	57	0.8%	7,165	87	1.2%
Mar	7,214	7,157	57	0.8%	7,163	51	0.7%
Apr	7,178	7,122	56	0.8%	7,117	61	0.9%
May	7,079	7,024	55	0.8%	7,014	65	0.9%
Jun	7,033	6,977	56	0.8%	6,921	112	1.6%
Jul	6,992	6,936	56	0.8%	6,881	111	1.6%
Aug	6,999	6,943	56	0.8%	6,888	111	1.6%
Sep	7,026	6,970	56	0.8%	6,916	110	1.6%
Oct	7,138	7,082	56	0.8%	7,026	112	1.6%
Winter	7,216	7,159	57	0.8%	7,134	82	1.1%
Summer	7,045	6,989	56	0.8%	6,941	104	1.5%
Annual	7,130	7,074	56	0.8%	7,038	93	1.3%

- 49 Note 1 Company Forecast
- 50 Note 2 Actual data through April. Forecast data beginning June.
- 51 Note 3 Actual Data.

Total Division Use Per Meter							
2022-2023		Compared to 2021-2022			Compared to 2020-2021		
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	78.70	76.70	2.00	2.6%	76.47	2.23	2.9%
Dec	106.28	100.38	5.90	5.9%	104.01	2.27	2.2%
Jan	123.70	124.62	-0.92	-0.7%	119.46	4.24	3.5%
Feb	123.99	120.07	3.92	3.3%	120.94	3.05	2.5%
Mar	114.52	119.40	-4.88	-4.1%	116.46	-1.94	-1.7%
Apr	86.11	86.55	-0.44	-0.5%	84.76	1.36	1.6%
May	66.80	64.70	2.09	3.2%	68.57	-1.78	-2.6%
Jun	51.33	51.78	-0.45	-0.9%	49.80	1.53	3.1%
Jul	49.88	50.18	-0.30	-0.6%	52.60	-2.71	-5.2%
Aug	49.11	49.38	-0.27	-0.5%	48.01	1.10	2.3%
Sep	49.48	49.81	-0.33	-0.7%	48.00	1.48	3.1%
Oct	60.60	61.23	-0.63	-1.0%	58.26	2.34	4.0%
Winter	633.71	628.12	5.60	0.9%	622.45	11.22	1.8%
Summer	327.42	327.30	0.12	0.0%	325.54	1.95	0.6%
Annual	964.82	959.04	5.78	0.6%	952.07	13.17	1.4%

- 74 Note 1 Column 1 of Billed Deliveries table divided by Column 1 of Meter Counts table.
- 75 Note 2 Column 2 of Billed Deliveries table divided by Column 2 of Meter Counts table.
- 76 Note 3 Column 7 of Billed Deliveries table divided by Column 5 of Meter Counts table.

Northern Utilities, Inc.
 New Hampshire Division
 Sales Service Deliveries Forecast by Rate Class

Forecast Calendar Month Sales Service Deliveries (Dth)

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	2,042	220,036	111,391	11,507	77,862	21,743	19,554	5,047	0	469,181
Dec-22	2,949	317,835	160,901	16,621	112,469	31,407	28,245	7,290	0	677,718
Jan-23	3,479	374,954	189,817	19,608	132,681	37,051	33,321	8,601	0	799,512
Feb-23	2,982	321,407	162,709	16,808	113,733	31,760	28,562	7,372	0	685,333
Mar-23	2,537	273,372	138,392	14,296	96,735	27,013	24,294	6,271	0	582,909
Apr-23	1,463	157,618	79,793	8,243	55,775	15,575	14,007	3,615	0	336,088
May-23	1,749	77,083	27,257	14,030	26,111	23,560	6,496	10,071	0	186,357
Jun-23	1,133	49,935	17,657	9,089	16,915	15,263	4,208	6,524	0	120,723
Jul-23	968	42,665	15,086	7,765	14,452	13,041	3,596	5,574	0	103,147
Aug-23	976	43,022	15,213	7,830	14,573	13,150	3,626	5,621	0	104,010
Sep-23	1,083	47,721	16,874	8,686	16,165	14,586	4,022	6,235	0	115,370
Oct-23	2,186	96,355	34,071	17,537	32,639	29,451	8,121	12,589	0	232,948
Winter	15,452	1,665,222	843,003	87,083	589,253	164,548	147,983	38,196	0	3,550,740
Summer	8,095	356,781	126,158	64,938	120,854	109,050	30,069	46,613	0	862,556
Total	23,547	2,022,002	969,161	152,021	710,107	273,597	178,052	84,809	0	4,413,297

Forecast Calendar Month Distribution Service Deliveries (Dth)

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	2,042	220,036	129,663	13,826	172,262	45,728	52,743	164,152	91,551	892,002
Dec-22	2,949	317,835	182,200	19,324	222,508	59,365	73,230	158,384	92,743	1,128,540
Jan-23	3,479	374,954	214,233	22,707	258,828	69,102	85,330	168,477	94,718	1,291,829
Feb-23	2,982	321,407	185,017	19,639	228,985	61,042	74,877	161,163	89,656	1,144,769
Mar-23	2,537	273,372	160,562	17,110	211,274	56,115	65,548	167,186	103,166	1,056,868
Apr-23	1,463	157,618	97,201	10,452	145,715	38,427	42,183	151,944	94,447	739,448
May-23	1,749	77,083	32,110	16,324	52,486	42,291	28,448	156,775	96,474	503,741
Jun-23	1,133	49,935	21,967	11,126	40,336	31,895	18,156	132,659	91,007	398,215
Jul-23	968	42,665	19,268	9,742	37,177	29,179	16,154	144,765	95,250	395,168
Aug-23	976	43,022	19,534	9,873	38,053	29,824	15,926	146,271	93,366	396,846
Sep-23	1,083	47,721	21,317	10,786	40,309	31,732	19,160	142,263	93,179	407,549
Oct-23	2,186	96,355	39,429	20,070	61,754	50,127	35,524	163,260	101,185	569,892
Winter	15,452	1,665,222	968,875	103,058	1,239,572	329,778	393,910	971,306	566,281	6,253,454
Summer	8,095	356,781	153,626	77,923	270,115	215,048	133,369	885,993	570,461	2,671,411
Total	23,547	2,022,002	1,122,501	180,980	1,509,687	544,826	527,279	1,857,299	1,136,743	8,924,865

Forecast Sales Service Percentage

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	100.0%	100.0%	85.9%	83.2%	45.2%	47.5%	37.1%	3.1%	0.0%	52.6%
Dec-22	100.0%	100.0%	88.3%	86.0%	50.5%	52.9%	38.6%	4.6%	0.0%	60.1%
Jan-23	100.0%	100.0%	88.6%	86.4%	51.3%	53.6%	39.0%	5.1%	0.0%	61.9%
Feb-23	100.0%	100.0%	87.9%	85.6%	49.7%	52.0%	38.1%	4.6%	0.0%	59.9%
Mar-23	100.0%	100.0%	86.2%	83.6%	45.8%	48.1%	37.1%	3.8%	0.0%	55.2%
Apr-23	100.0%	100.0%	82.1%	78.9%	38.3%	40.5%	33.2%	2.4%	0.0%	45.5%
May-23	100.0%	100.0%	84.9%	85.9%	49.7%	55.7%	22.8%	6.4%	0.0%	37.0%
Jun-23	100.0%	100.0%	80.4%	81.7%	41.9%	47.9%	23.2%	4.9%	0.0%	30.3%
Jul-23	100.0%	100.0%	78.3%	79.7%	38.9%	44.7%	22.3%	3.9%	0.0%	26.1%
Aug-23	100.0%	100.0%	77.9%	79.3%	38.3%	44.1%	22.8%	3.8%	0.0%	26.2%
Sep-23	100.0%	100.0%	79.2%	80.5%	40.1%	46.0%	21.0%	4.4%	0.0%	28.3%
Oct-23	100.0%	100.0%	86.4%	87.4%	52.9%	58.8%	22.9%	7.7%	0.0%	40.9%
Winter	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	56.8%
Summer	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	32.3%
Total	100.0%	100.0%	86.3%	84.0%	47.0%	50.2%	33.8%	4.6%	0.0%	49.4%

Northern Utilities, Inc.
 New Hampshire Division
 Sales Service Deliveries Forecast by Rate Class

Forecast Bill Month Sales Service Deliveries (Dth)

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	1,739	140,526	68,395	11,592	56,195	22,008	19,971	6,513	0	326,939
Dec-22	2,696	273,585	140,887	14,460	99,921	28,293	27,069	6,185	0	593,095
Jan-23	3,125	354,260	183,091	16,392	123,750	30,798	31,296	6,544	0	749,255
Feb-23	3,164	374,149	192,625	16,712	129,032	31,259	27,869	6,295	0	781,107
Mar-23	2,636	311,765	158,274	15,427	109,399	29,503	24,824	6,587	0	658,414
Apr-23	2,091	210,937	99,731	12,501	70,957	22,687	16,954	6,072	0	441,931
May-23	1,677	117,054	46,162	10,541	37,778	20,224	6,390	8,147	0	247,972
Jun-23	1,420	61,772	20,370	10,751	20,374	18,061	4,060	7,005	0	143,812
Jul-23	1,271	40,317	11,838	10,902	13,127	17,015	3,655	7,730	0	105,855
Aug-23	1,199	35,001	10,917	10,953	11,630	17,025	3,580	7,811	0	98,116
Sep-23	1,220	36,615	12,058	11,091	13,318	17,030	4,407	7,554	0	103,293
Oct-23	1,309	66,022	24,813	10,700	24,626	19,694	7,977	8,367	0	163,509
Winter	15,452	1,665,222	843,003	87,083	589,253	164,548	147,983	38,196	0	3,550,740
Summer	8,095	356,781	126,158	64,938	120,854	109,050	30,069	46,613	0	862,556
Total	23,547	2,022,002	969,161	152,021	710,107	273,597	178,052	84,809	0	4,413,297

Forecast Bill Month Distribution Service Deliveries (Dth)

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	1,739	140,526	78,607	13,718	118,213	44,107	53,160	165,618	91,551	707,240
Dec-22	2,696	273,585	161,923	17,112	210,196	56,704	72,054	157,279	92,743	1,044,293
Jan-23	3,125	354,260	210,429	19,399	260,323	61,723	83,305	166,421	94,718	1,253,703
Feb-23	3,164	374,149	221,387	19,778	271,437	62,649	74,183	160,086	89,656	1,276,489
Mar-23	2,636	311,765	181,906	18,256	230,135	59,127	66,078	167,502	103,166	1,140,573
Apr-23	2,091	210,937	114,623	14,795	149,267	45,467	45,130	154,400	94,447	831,157
May-23	1,677	117,054	56,212	12,649	84,436	39,882	28,341	154,852	96,474	591,576
Jun-23	1,420	61,772	24,805	12,900	45,538	35,617	18,008	133,140	91,007	424,207
Jul-23	1,271	40,317	14,416	13,082	29,339	33,554	16,214	146,920	95,250	390,362
Aug-23	1,199	35,001	13,294	13,143	25,994	33,574	15,881	148,461	93,366	379,912
Sep-23	1,220	36,615	14,683	13,308	29,768	33,583	19,545	143,582	93,179	385,483
Oct-23	1,309	66,022	30,216	12,840	55,041	38,838	35,380	159,039	101,185	499,870
Winter	15,452	1,665,222	968,875	103,058	1,239,572	329,778	393,910	971,306	566,281	6,253,454
Summer	8,095	356,781	153,626	77,923	270,115	215,048	133,369	885,993	570,461	2,671,411
Total	23,547	2,022,002	1,122,501	180,980	1,509,687	544,826	527,279	1,857,299	1,136,743	8,924,865

Forecast Sales Service Percentage

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	46.2%
Dec-22	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	56.8%
Jan-23	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	59.8%
Feb-23	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	61.2%
Mar-23	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	57.7%
Apr-23	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	53.2%
May-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	41.9%
Jun-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	33.9%
Jul-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	27.1%
Aug-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	25.8%
Sep-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	26.8%
Oct-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	32.7%
Winter	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	56.8%
Summer	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	32.3%
Total	100.0%	100.0%	86.3%	84.0%	47.0%	50.2%	33.8%	4.6%	0.0%	49.4%

Northern Utilities, Inc.
 New Hampshire Division
 Estimation of Northern - New Hampshire City-Gate Sendout Requirement

Month	Sales Service Deliveries (Dth)	Company Gas Allowance (Percent)	Company Gas Allowance (LAUF and Company Use) (Dth)	Estimated Division Sales Service Sendout (Dth)	Estimated Company-Managed Sales	Total Estimated City-Gate Sendout Requirement
Nov-22	469,181	0.97%	4,595	473,776	22,530	496,306
Dec-22	677,718	0.97%	6,638	684,356	24,499	708,855
Jan-23	799,512	0.97%	7,831	807,343	28,481	835,824
Feb-23	685,333	0.97%	6,713	692,046	21,637	713,683
Mar-23	582,909	0.97%	5,710	588,619	23,281	611,900
Apr-23	336,088	0.97%	3,292	339,380	0	339,380
May-23	186,357	0.97%	1,826	188,183	0	188,183
Jun-23	120,723	0.97%	1,183	121,906	0	121,906
Jul-23	103,147	0.97%	1,011	104,158	0	104,158
Aug-23	104,010	0.97%	1,019	105,029	0	105,029
Sep-23	115,370	0.97%	1,130	116,500	0	116,500
Oct-23	232,948	0.97%	2,282	235,230	0	235,230
Winter	3,550,740	0.97%	34,780	3,585,520	120,428	3,705,948
Summer	862,556	0.97%	8,450	871,006	0	871,006
Total	4,413,297	0.97%	43,229	4,456,526	120,428	4,576,954

Northern Utilities, Inc.
 New Hampshire Division
 Sales Service Meters Forecast by Rate Class

Forecast Bill Month Sales Service Meters

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	1,249	28,311	4,737	756	443	146	11	2	0	35,655
Dec-22	1,245	28,464	4,793	763	434	149	11	2	0	35,861
Jan-23	1,244	28,529	4,803	764	434	149	11	2	0	35,937
Feb-23	1,241	28,555	4,823	763	435	149	11	2	0	35,980
Mar-23	1,247	28,557	4,818	767	434	150	11	2	0	35,986
Apr-23	1,280	28,682	4,756	784	435	150	11	2	0	36,101
May-23	1,288	28,410	4,629	788	437	150	11	2	0	35,716
Jun-23	1,301	28,352	4,511	794	452	152	11	2	0	35,575
Jul-23	1,300	28,375	4,479	789	464	151	11	2	0	35,573
Aug-23	1,302	28,398	4,501	783	463	152	11	2	0	35,613
Sep-23	1,290	28,707	4,556	779	465	153	11	2	0	35,962
Oct-23	1,268	28,897	4,716	763	468	153	12	2	0	36,278
Winter	7,506	171,098	28,731	4,598	2,614	893	66	14	0	215,520
Summer	7,749	171,139	27,392	4,695	2,749	911	67	14	0	214,717
Total	15,255	342,237	56,123	9,294	5,362	1,804	133	28	0	430,236

Forecast Bill Month Distribution Service Meters

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	1,249	28,311	5,248	842	780	266	30	30	3	36,759
Dec-22	1,245	28,464	5,311	850	764	270	29	31	3	36,967
Jan-23	1,244	28,529	5,322	851	765	270	29	31	3	37,044
Feb-23	1,241	28,555	5,344	850	766	271	29	31	3	37,090
Mar-23	1,247	28,557	5,338	854	765	272	29	31	3	37,096
Apr-23	1,280	28,682	5,270	873	766	272	30	31	3	37,207
May-23	1,288	28,410	5,129	877	771	273	29	30	3	36,810
Jun-23	1,301	28,352	4,998	884	796	276	30	30	3	36,670
Jul-23	1,300	28,375	4,963	879	818	275	30	30	3	36,673
Aug-23	1,302	28,398	4,987	872	816	276	30	29	3	36,713
Sep-23	1,290	28,707	5,048	867	819	277	30	29	3	37,070
Oct-23	1,268	28,897	5,225	849	824	278	31	29	3	37,404
Winter	7,506	171,098	31,833	5,120	4,606	1,621	176	185	18	222,163
Summer	7,749	171,139	30,350	5,228	4,844	1,655	180	177	18	221,340
Total	15,255	342,237	62,183	10,348	9,450	3,276	356	362	36	443,503

Forecast Sales Service Percentage

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Dec-22	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Jan-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Feb-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Mar-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Apr-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
May-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Jun-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Jul-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Aug-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Sep-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Oct-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Winter	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Summer	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Total	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%

Forecast Bill Month Transportation Service Meters

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	0	0	511	86	337	120	19	28	3	1,104
Dec-22	0	0	518	87	330	121	18	29	3	1,106
Jan-23	0	0	519	87	331	121	18	29	3	1,107
Feb-23	0	0	521	87	331	122	18	29	3	1,110
Mar-23	0	0	520	87	331	122	18	29	3	1,110
Apr-23	0	0	514	89	331	122	19	29	3	1,106
May-23	0	0	500	89	334	123	18	28	3	1,094
Jun-23	0	0	487	90	344	124	19	28	3	1,095
Jul-23	0	0	484	90	354	124	19	28	3	1,100
Aug-23	0	0	486	89	353	124	19	27	3	1,100
Sep-23	0	0	492	88	354	124	19	27	3	1,108
Oct-23	0	0	509	86	356	125	19	27	3	1,126
Winter	0	0	3,102	522	1,992	728	110	171	18	6,643
Summer	0	0	2,958	533	2,095	744	113	163	18	6,623
Total	0	0	6,060	1,054	4,088	1,472	223	334	36	13,267

Northern Utilities, Inc.
 New Hampshire Division
 Lost and Unaccounted For, Company Use and Therm Factor Data

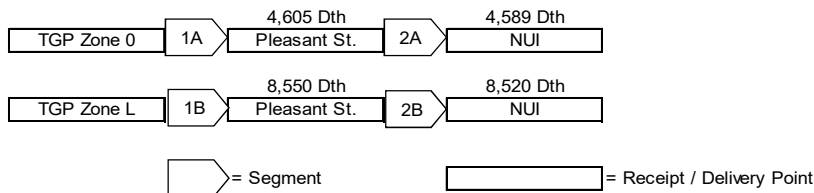
Month	GSGT - NH City-Gates (MCF)	Therm Factor	Total - NH City-Gate (Dth)	Total System Billed Sales (Dth)	Company Use (Dth)	Lost and Unaccounted For (Dth)	Company Gas Allowance (Dth)
May-18	443,025	1.0283	455,580	574,552	108	(119,080)	(118,972)
Jun-18	369,548	1.0292	380,339	409,352	40	(29,053)	(29,013)
Jul-18	351,086	1.0289	361,236	352,762	92	8,382	8,474
Aug-18	363,051	1.0284	373,373	369,837	131	3,406	3,537
Sep-18	378,195	1.0276	388,633	370,269	131	18,233	18,364
Oct-18	628,317	1.0303	647,361	485,553	100	161,708	161,808
Nov-18	923,290	1.0336	954,321	765,985	142	188,194	188,336
Dec-18	1,057,440	1.0382	1,097,877	1,067,650	207	30,020	30,227
Jan-19	1,259,492	1.0431	1,313,764	1,200,221	254	113,289	113,543
Feb-19	1,109,150	1.0375	1,150,732	1,229,927	257	(79,452)	(79,195)
Mar-19	1,008,861	1.0347	1,043,849	1,147,817	251	(104,219)	(103,968)
Apr-19	681,738	1.0309	702,824	843,446	173	(140,795)	(140,622)
May-19	545,305	1.0288	560,999	632,151	100	(71,252)	(71,152)
Jun-19	388,772	1.0290	400,027	430,401	58	(30,432)	(30,374)
Jul-19	365,810	1.0287	376,320	391,025	83	(14,788)	(14,705)
Aug-19	374,614	1.0280	385,103	380,773	140	4,190	4,330
Sep-19	394,298	1.0283	405,449	375,182	100	30,168	30,268
Oct-19	534,087	1.0295	549,837	485,413	89	64,335	64,424
Nov-19	930,426	1.0352	963,214	698,186	84	264,945	265,029
Dec-19	1,075,165	1.0460	1,124,591	1,016,439	240	107,912	108,152
Jan-20	1,077,141	1.0437	1,124,212	1,130,011	294	(6,093)	(5,799)
Feb-20	1,041,031	1.0434	1,086,254	1,133,789	289	(47,824)	(47,535)
Mar-20	839,434	1.0376	871,030	1,005,451	257	(134,678)	(134,421)
Apr-20	651,269	1.0343	673,594	707,067	180	(33,653)	(33,473)
May-20	441,527	1.0303	454,923	565,494	141	(110,712)	(110,571)
Jun-20	344,089	1.0300	354,401	396,103	60	(41,762)	(41,702)
Jul-20	332,377	1.0285	341,836	347,265	64	(5,493)	(5,429)
Aug-20	341,582	1.0299	351,806	330,714	89	21,003	21,092
Sep-20	387,752	1.0284	398,768	386,921	118	11,729	11,847
Oct-20	569,808	1.0286	586,110	452,419	61	133,631	133,691
Nov-20	740,493	1.0331	765,011	649,932	98	114,981	115,079
Dec-20	1,058,690	1.0409	1,101,990	928,725	171	173,094	173,265
Jan-21	1,172,543	1.0407	1,220,219	1,116,107	263	103,849	104,112
Feb-21	1,086,893	1.0402	1,130,630	1,198,238	328	(67,936)	(67,608)
Mar-21	942,363	1.0334	973,866	1,164,215	327	(190,676)	(190,349)
Apr-21	652,284	1.0292	671,331	720,559	162	(49,390)	(49,228)
May-21	477,820	1.0277	491,036	574,914	99	(83,977)	(83,878)
Jun-21	356,750	1.0276	366,610	396,066	78	(29,534)	(29,456)
Jul-21	374,108	1.0291	384,987	399,523	99	(14,636)	(14,536)
Aug-21	353,826	1.0298	364,375	365,908	106	(1,640)	(1,533)
Sep-21	365,636	1.0308	376,896	366,793	116	9,987	10,103
Oct-21	481,205	1.0320	496,620	414,132	83	82,405	82,488
Nov-21	795,667	1.0355	823,904	630,533	64	193,307	193,372
Dec-21	960,815	1.0382	997,512	923,452	167	73,893	74,060
Jan-22	1,355,286	1.0450	1,416,262	1,221,801	298	194,163	194,461
Feb-22	1,057,323	1.0407	1,100,404	1,251,054	1,231	(151,881)	(150,650)
Mar-22	925,084	1.0359	958,280	1,089,874	423	(132,017)	(131,594)
Apr-22	649,789	1.0335	671,534	764,911	834	(94,211)	(93,377)
Total	33,014,255	1.0356	34,189,830	33,858,911	9,282	321,637	330,919
48-Month Average					0.03%	0.94%	0.97%

Table 3. Northern Capacity Summary (Dth/Day)

<u>Pipeline Capacity Paths</u>	
Tennessee Zone 0 and Zone L Pools	13,109
Tennessee Niagara	2,327
Iroquois Receipts	6,434
Leidy Hub Supply (Texas Eastern, Algonquin)	965
Transco Zone 6, non-NY Supply (Algonquin)	286
PXP Dawn Hub	9,965
WXP Dawn Hub	9,965
Atlantic Bridge Ramapo	7,500
Total Pipeline Capacity	50,551
<u>Storage Capacity Paths</u>	
Tennessee Firm Storage	2,644
Dawn Hub Storage	39,863
Total Storage Capacity	42,507
<u>Peaking Capacity Paths</u>	
LNG - On-System	6,500
Peaking Contract 1	39,860
Peaking Contract 2	2,990
Additional Granite Capacity	436
Total Peaking Capacity	49,786
Total Design Day Capacity	142,844

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Tennessee Zone 0 100 Leg, Zone L 500 and 800 Leg Pools

Capacity Path Diagram



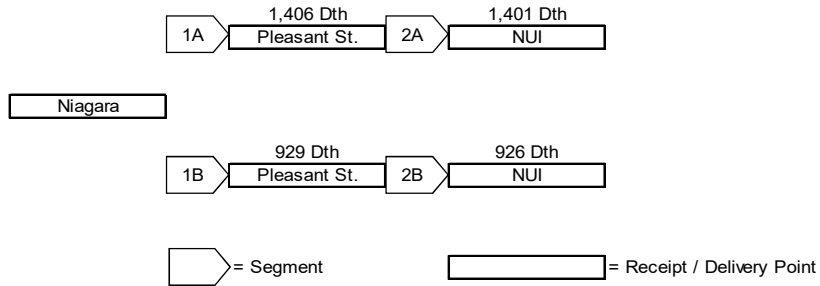
Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1A ¹	Transportation	Tennessee	5083	FT-A	10/31/2028	4,605	Dth	Year-Round	Zone 0, 100 Leg	Pleasant St.	Granite
2A	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	4,589	Dth	Year-Round	Granite	Northern City Gates	
1B ¹	Transportation	Tennessee	5083	FT-A	10/31/2028	8,550	Dth	Year-Round	Zone L, 500 & 800 Legs	Pleasant St.	Granite
2B	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	8,520	Dth	Year-Round	Granite	Northern City Gates	
Total Path Deliverable						13,109	Dth				

Note 1: Tennessee Contract No. 5083 also allows for firm delivery rights to Bay State Gas city gates. As such, Tennessee Production could also be delivered to Bay State City Gates and then exchanged with Bay State via the Base State Exchange for delivery to Northern.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Niagara (Interconnection of TransCanada and Tennessee Pipelines)

Capacity Path Diagram

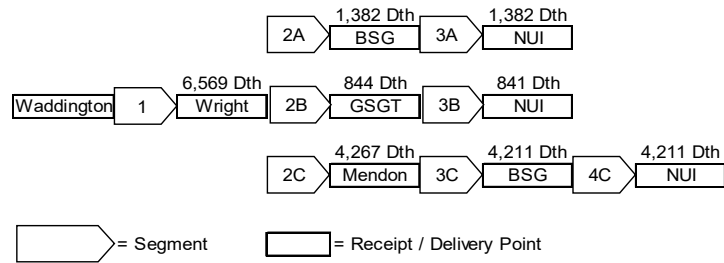


Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1A	Transportation	Tennessee	5292	FT-A	3/31/2025	1,406	Dth	Year-Round	Niagara	Pleasant St.	Granite
2A	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	1,401	Dth	Year-Round	Granite	Northern City Gates	
1B	Transportation	Tennessee	39735	FT-A	3/31/2025	929	Dth	Year-Round	Niagara	Pleasant St.	Granite
2B	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	926	Dth	Year-Round	Granite	Northern City Gates	
Total Path Deliverable						2,327	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Iroquois Receipts

Capacity Path Diagram

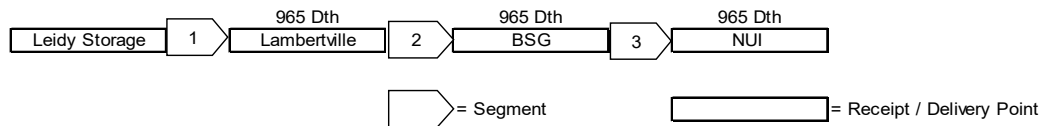


Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1	Transportation	Iroquois	R181003	RTS-1	10/31/2024	6,569	Dth	Year-Round	Waddington	Wright	Tennessee
2A	Transportation	Tennessee	95196	FT-A	10/31/2027	1,382	Dth	Year-Round	Wright	Bay State City Gate	Tennessee
3A	Exchange	Bay State Gas	NA	NA	Renewal Clause	1,382	Dth	Year-Round	Bay State City Gate	Northern City Gates	
2B	Transportation	Tennessee	95196	FT-A	10/31/2027	844	Dth	Year-Round	Wright	Pleasant St.	Granite
3B	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	841	Dth	Year-Round	Granite	Northern City Gates	Granite
2C	Transportation	Tennessee	41099	FT-A	10/31/2027	4,267	Dth	Year-Round	Wright	Mendon	
3C*	Transportation	Algonquin	93200F	AFT-1	10/31/2023	4,211	Dth	Year-Round	Mendon	Bay State City Gate	Algonquin
4C	Exchange	Bay State Gas	NA	NA	Renewal Clause	4,211	Dth	Year-Round	Bay State City Gate	Northern City Gates	
Total Path Deliverable						6,434	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Algonquin Receipt Points

Capacity Path Diagram



Capacity Path Detail

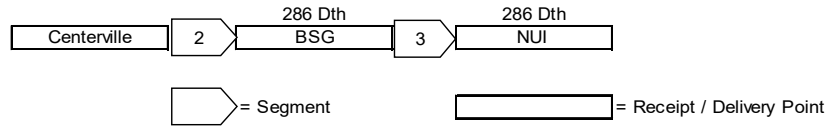
Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1*	Transportation	Texas Eastern	800384	FT-1	10/31/2027	965	Dth	Year-Round	Leidy Storage	Lambertville, NJ	Algonquin
2**	Transportation	Algonquin	93201A1C	AFT-1 (F-2/F-3)	10/31/2023	965	Dth	Year-Round	Lambertville, NJ	Bay State City Gate	
3	Exchange	Bay State Gas	NA	NA	Renewal Clause	965	Dth	Year-Round	Bay State City Gate	Northern City Gates	
Total Path Deliverable						965	Dth				

* Contract 800384 will extend to 10/31/2028 unless terminated by Northern on or before 10/31/2022. Northern intends to extend this contract.

** Contract 93201A1C will extend to 10/31/2024 unless terminated by Northern on or before 10/31/2022. Northern intends to extend this contract.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Algonquin Receipt Points

Capacity Path Diagram



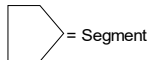
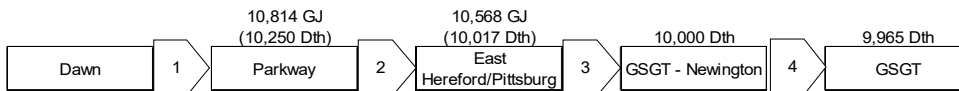
Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1*	Transportation	Algonquin	93201A1C	AFT-1 (F-2/F-3)	10/31/2023	286	Dth	Year-Round	Centerville, NJ	Bay State City Gate	
2	Exchange	Bay State Gas	NA	NA	Renewal Clause	286	Dth	Year-Round	Bay State City Gate	Northern City Gates	
Total Path Deliverable						286	Dth				

* Contract 93201A1C will extend to 10/31/2024 unless terminated by Northern on or before 10/31/2022. Northern intends to extend this contract.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: PXP Dawn Hub

Capacity Path Diagram

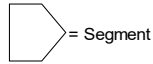
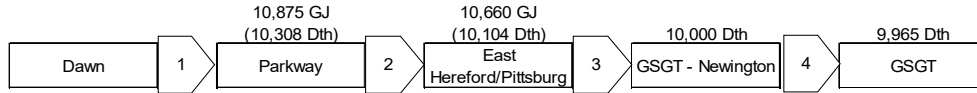


Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1	Transportation	Union	M12296	M12	10/31/2040	10,814	GJ	Year-Round	Dawn	Parkway	TransCanada
2	Transportation	TransCanada	63265	FT	10/31/2040	10,568	GJ	Year-Round	Parkway	East Hereford	PNGTS
3	Transportation	PNGTS	23339	FT	10/31/2040	10,000	Dth	Year-Round	Pittsburg, NH	Newington, NH	Granite
4	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	9,965	Dth	Year-Round	Newington, NH	Northern City Gates	
Total Path Deliverable						9,965	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: WXP Dawn Hub

Capacity Path Diagram

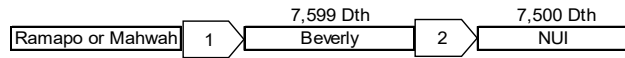


Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1	Transportation	Union	M12279	M12	10/31/2037	10,875	GJ	Year-Round	Dawn	Parkway	TransCanada
2	Transportation	TransCanada	TBD	FT	10/31/2037	10,660	GJ	Year-Round	Parkway	East Hereford	PNGTS
3	Transportation	PNGTS	240520	FT	10/31/2037	10,000	Dth	Year-Round	Pittsburg, NH	Newington, NH	Granite
4	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	9,965	Dth	Year-Round	Newington, NH	Northern City Gates	
Total Path Deliverable						9,965	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Atlantic Bridge Ramapo

Capacity Path Diagram



= Segment

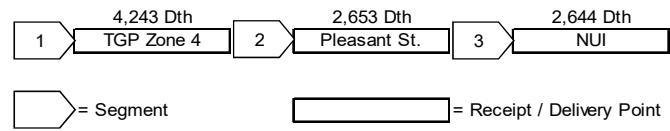
= Receipt / Delivery Point

Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1	Transportation	Algonquin	510939	FT	2/11/2036	7,599	Dth	Year-Round	Ramapo or Mawhah	Beverly, MA	Maritimes
2	Transportation	Maritimes	210363	FT	2/11/2036	7,500	Dth	Year-Round	Beverly, MA	Northern City Gates	
Total Path Deliverable						7,500	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Tennessee Firm Storage - Market Area

Capacity Path Diagram



Capacity Path Detail

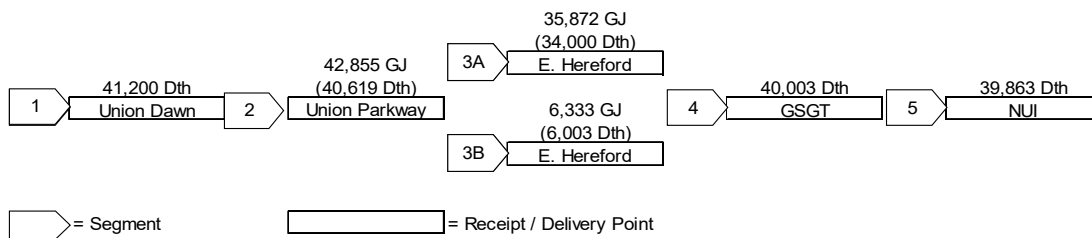
Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1 ¹	Storage	Tennessee	5195	FS-MA	3/31/2025	4,243	Dth	Year-Round	NA	TGP Zone 4	Tennessee
2 ²	Transportation	Tennessee	5265	FT-A	3/31/2025	2,653	Dth	Year-Round	TGP Zone 4	Pleasant St.	Granite
3	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	2,644	Dth	Year-Round	Pleasant St.	Northern City Gates	
Total Path Deliverable						2,644	Dth				

Note 1: Tennessee Contract No. 5195 has a maximum storage quantity of 259,337 Dth.

Note 2: Tennessee Contract No. 5265 also allows for firm delivery rights to Bay State Gas city gates. As such, Tennessee Firm Storage could also be delivered to Bay State City Gates and then exchanged with Bay State via the Base State Exchange for delivery to Northern.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Union Dawn Storage

Capacity Path Diagram

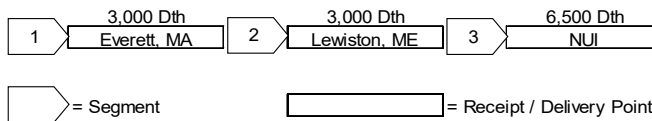


Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1	Storage	Union	LST086	Firm Storage (MDWD)	3/31/2023	43,468	GJ	Year-Round	NA	Dawn	Union
1	Storage	Union	LST086	Firm Storage (MSB)	3/31/2023	4,220,224	GJ	Year-Round	NA	Dawn	
1	Storage	Union	LST086	Firm Storage (MDID)	3/31/2023	31,652	GJ	Year-Round	NA	Dawn	
1*	Storage	Union	LST155	Firm Storage (MDWD)	3/31/2028	66,469	GJ	Year-Round	NA	Dawn	Union
1*	Storage	Union	LST155	Firm Storage (MSB)	3/31/2028	6,330,336	GJ	Year-Round	NA	Dawn	
1*	Storage	Union	LST155	Firm Storage (MDID)	3/31/2028	47,478	GJ	Year-Round	NA	Dawn	
2	Transportation	Union	M12256	M12	10/31/2033	42,962	GJ	Year-Round	Dawn	Parkway	TransCanada
3A	Transportation	TransCanada	57901	FT	3/31/2033	35,872	GJ	Year-Round	Parkway	East Hereford	PNGTS
3B	Transportation	TransCanada	57055	FT	10/31/2032	6,333	GJ	Year-Round	Parkway	East Hereford	PNGTS
4	Transportation	PNGTS	208543	FT	11/30/2032	40,003	Dth	Year-Round	Pittsburg, NH	Newington, NH	Granite
5	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	39,863	Dth	Year-Round	Newington, NH	Northern City Gates	
Total Path Deliverable						39,863	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Lewiston LNG Plant

Capacity Path Diagram



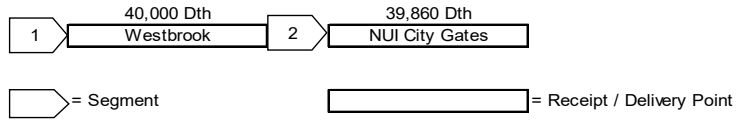
Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1 ¹	LNG Contract	Confidential	NA	NA	10/31/2024	3,000	Dth	Year-Round	NA		NA
2	LNG Trucking Contract	Confidential			10/31/2024	3,000	Dth	Year-Round		Lewiston, ME	NA
3	Lewiston LNG Plant	N/A	NA	NA	N/A	6,500	Dth	Year-Round	Lewiston, ME	Northern Distribution System	
Total Path Deliverable						6,500	Dth				

Note 1: The LNG Contract allows Northern to nominate up to 3,000 Dth per day (3 trucks) with an annual maximum take equal to 75,000 Dth.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Peaking Contract 1

Capacity Path Diagram



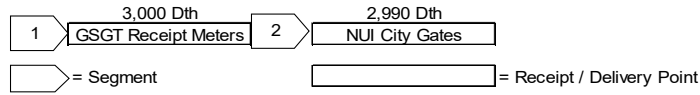
Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1 ¹	Peaking Supply	Confidential	NA	NA	3/31/2023	40,000	Dth	Winter Only (Nov - Mar)	NA	Westbrook or Lewiston	Granite or Northern City Gates
2	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	39,860	Dth	Year-Round	Westbrook or Lewiston	Northern City Gates	
Total Path Deliverable						39,860	Dth				

Note 1: Peaking Contract 1 allows Northern to nominate up to 40,000 Dth per Day and up to 600,000 Dth from November through March with takes above 30,000 Dth per Day capped at 50,000 Dth. Contract volumes may also be delivered to NUI - Lewiston in which case no Granite capacity is utilized.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Peaking Contract 2

Capacity Path Diagram



Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1 ¹	Peaking Supply	Confidential	NA	NA	3/31/2023	3,000	Dth	Winter Only (Nov - Mar)	NA	MNUS / PNGTS	Granite or Northern City Gates
2	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	2,990	Dth	Year-Round	MNUS / PNGTS	Northern City Gates	
Total Path Deliverable						2,990	Dth				

Note 1: Peaking Contract 2 allows Northern to nominate up to 3,000 Dth per Day and up to 60,000 Dth from November through March. Contract volumes may also be delivered to NUI - Lewiston in which case no Granite capacity is utilized.

Northern Utilities, Inc. Estimated Gas Supply Demand Costs November 1, 2022 through October 31, 2023			
Line	Description	Estimate	Reference
1.	Pipeline Demand Costs	\$ 24,102,032	Page 3 - Pipeline Allocated Cost
2.	Storage Allocated Pipeline Demand Costs	\$ 21,827,803	Page 3 - Storage Allocated Cost
3.	Storage Demand Costs	\$ 4,206,606	Page 4 - Annual Fixed Charges
4.	Peaking Allocated Pipeline Demand Costs	\$ 1,598,890	Page 3 - Peaking Allocated Cost
5.	Peaking Contract Costs	\$ 11,428,417	Page 5, Annual Fixed Charges
6.	Asset Management and Capacity Release Revenue	\$ (20,934,600)	Page 6 - Total Asset Management and Capacity Release Revenue
7.	Total Demand Costs	\$ 42,229,147	Sum Lines 1 through 6.

Northern Utilities, Inc.
 Pipeline Contract Demand Cost Estimates
 November 1, 2022 through October 31, 2023

Capacity Path	Segment	Pipeline	Contract ID	Rate	Negotiated Rate	Maximum Daily Quantity (Dth)	Monthly Demand Rate (\$/MDQ)	Months Per Year	Reference (Att NUI-FXW-9, Page 2)	Monthly Demand	Annual Demand
Tennessee Zone 0/L Pools	1A	Tennessee	5083	FT-A	No	4,605	\$ 19.6995	12	Line 8	\$ 90,716	\$ 1,088,594
Tennessee Zone 0/L Pools	2A	Granite	19-100-FT-NN	FT-NN	No	4,589	\$ 6.1563	12	Line 3	\$ 28,251	\$ 339,015
Tennessee Zone 0/L Pools	1B	Tennessee	5083	FT-A	No	8,550	\$ 17.4901	12	Line 9	\$ 149,540	\$ 1,794,484
Tennessee Zone 0/L Pools	2B	Granite	19-100-FT-NN	FT-NN	No	8,520	\$ 6.1563	12	Line 3	\$ 52,452	\$ 629,420
Tennessee Niagara	1A	Tennessee	5292	FT-A	No	1,406	\$ 6.0936	12	Line 11	\$ 8,568	\$ 102,811
Tennessee Niagara	2A	Granite	19-100-FT-NN	FT-NN	No	1,401	\$ 6.1563	12	Line 3	\$ 8,625	\$ 103,500
Tennessee Niagara	1B	Tennessee	39735	FT-A	No	929	\$ 6.0936	12	Line 11	\$ 5,661	\$ 67,931
Tennessee Niagara	2B	Granite	19-100-FT-NN	FT-NN	No	926	\$ 6.1563	12	Line 3	\$ 5,701	\$ 68,409
Iroquois Receipts	1	Iroquois	181003	RTS-1	No	5,715	\$ 5.2357	12	Line 4	\$ 29,922	\$ 359,064
Iroquois Receipts	1	Iroquois	181003	RTS-1	No	854	\$ 5.2357	12	Line 4	\$ 4,471	\$ 53,655
Iroquois Receipts	2A	Tennessee	95196	FT-A	No	1,382	\$ 6.0936	12	Line 11	\$ 8,421	\$ 101,056
Iroquois Receipts	2B	Tennessee	95196	FT-A	No	844	\$ 6.0936	12	Line 11	\$ 5,143	\$ 61,716
Iroquois Receipts	3B	Granite	19-100-FT-NN	FT-NN	No	841	\$ 6.1563	12	Line 3	\$ 5,177	\$ 62,129
Iroquois Receipts	2C	Tennessee	41099	FT-A	No	4,267	\$ 6.0936	12	Line 11	\$ 26,001	\$ 312,017
Iroquois Receipts	3C	Algonquin	93002F	AFT-1	No	4,211	\$ 8.5927	12	Line 1	\$ 36,184	\$ 434,206
Leidy Hub	1	Texas Eastern	800384	FT-1	No	965	\$ 7.0660	12	Line 12	\$ 6,819	\$ 81,824
Leidy Hub	2	Algonquin	93201A1C	AFT-1	No	965	\$ 8.5927	12	Line 1	\$ 8,292	\$ 99,503
Transco Zone 6, non-NY	1	Algonquin	93201A1C	AFT-1	No	286	\$ 8.5927	12	Line 1	\$ 2,458	\$ 29,490
PXP Dawn Hub	1	Union	M12296	M12	No	10,250	\$ 3.0214	12	Line 14	\$ 30,969	\$ 371,632
PXP Dawn Hub	2	TransCanada	63265	FT	No	10,017	\$ 17.1991	12	Line 13	\$ 172,283	\$ 2,067,401
PXP Dawn Hub	3	PNGTS	233320	FT (PXP)	Yes	10,000	\$ 22.8125	12	Line 7	\$ 228,125	\$ 2,737,500
PXP Dawn Hub	4	Granite	19-100-FT-NN	FT-NN	No	9,965	\$ 6.1563	12	Line 3	\$ 61,348	\$ 736,170
WXP Dawn Hub	1	Union	M12279	M12	No	10,307	\$ 3.0214	12	Line 14	\$ 31,142	\$ 373,699
WXP Dawn Hub	2	TransCanada	TBD	FT	No	10,104	\$ 17.1991	12	Line 13	\$ 173,780	\$ 2,085,356
WXP Dawn Hub	3	PNGTS	240520	FT (WXP)	Yes	10,000	\$ 24.9417	12	Line 7	\$ 249,417	\$ 2,993,004
WXP Dawn Hub	4	Granite	19-100-FT-NN	FT-NN	No	9,965	\$ 6.1563	12	Line 3	\$ 61,348	\$ 736,170
Atlantic Bridge	1	Algonquin	510939	AFT	Yes	7,599	\$ 54.9170	12	Line 2	\$ 417,314	\$ 5,007,771
Atlantic Bridge	2	Maritimes	210363	MN365	Yes	7,500	\$ 13.3833	12	Line 5	\$ 100,375	\$ 1,204,500
Tennessee Firm Storage	2	Tennessee	5265	FT-A	No	2,653	\$ 6.9332	12	Line 10	\$ 18,394	\$ 220,725
Tennessee Firm Storage	3	Granite	19-100-FT-NN	FT-NN	No	2,644	\$ 6.1563	12	Line 3	\$ 16,277	\$ 195,327
Union Dawn Storage	2	Union	M12256	M12	No	40,720	\$ 3.0214	12	Line 14	\$ 123,031	\$ 1,476,377
Union Dawn Storage	3A	TransCanada	57901	FT	No	34,000	\$ 17.1991	12	Line 13	\$ 584,769	\$ 7,017,233
Union Dawn Storage	3B	TransCanada	57055	FT	No	6,003	\$ 17.1991	12	Line 13	\$ 103,246	\$ 1,238,954
Union Dawn Storage	4	PNGTS	208543	FT (C2C)	Yes	40,003	\$ 18.2500	12	Line 6	\$ 730,055	\$ 8,760,657
Union Dawn Storage	5	Granite	19-100-FT-NN	FT-NN	No	39,149	\$ 6.1563	12	Line 3	\$ 241,013	\$ 2,892,156
Union Dawn Storage	6	Granite	19-100-FT-NN	FT-NN	No	714	\$ 6.1563	6	Line 3	\$ 4,396	\$ 26,374
Peaking Capacity (Nov-Apr)	N/A	Granite	19-100-FT-NN	FT-NN	No	43,286	\$ 6.1563	6	Line 3	\$ 266,482	\$ 1,598,890
Total Annual Demand Costs											\$ 47,528,724

Northern Utilities, Inc.
 Pipeline Contract Demand Cost Allocations
 November 1, 2022 through October 31, 2023

Capacity Path	Segment	Pipeline	Contract ID	MDQ	Pipeline MDQ	Storage MDQ	Peaking MDQ	Annual Demand	Annual Pipeline Allocated Cost	Annual Storage Allocated Cost	Annual Peaking Allocated Cost
Tennessee Zone 0/L Pools	1A	Tennessee	5083	4,605	4,605	-	-	\$ 1,088,594	\$ 1,088,594	\$ -	\$ -
Tennessee Zone 0/L Pools	2A	Granite	19-100-FT-NN	4,589	4,589	-	-	\$ 339,015	\$ 339,015	\$ -	\$ -
Tennessee Zone 0/L Pools	1B	Tennessee	5083	8,550	8,550	-	-	\$ 1,794,484	\$ 1,794,484	\$ -	\$ -
Tennessee Zone 0/L Pools	2B	Granite	19-100-FT-NN	8,520	8,520	-	-	\$ 629,420	\$ 629,420	\$ -	\$ -
Tennessee Niagara	1A	Tennessee	5292	1,406	1,406	-	-	\$ 102,811	\$ 102,811	\$ -	\$ -
Tennessee Niagara	2A	Granite	19-100-FT-NN	1,401	1,401	-	-	\$ 103,500	\$ 103,500	\$ -	\$ -
Tennessee Niagara	1B	Tennessee	39735	929	929	-	-	\$ 67,931	\$ 67,931	\$ -	\$ -
Tennessee Niagara	2B	Granite	19-100-FT-NN	926	926	-	-	\$ 68,409	\$ 68,409	\$ -	\$ -
Iroquois Receipts	1	Iroquois	181003	5,715	5,715	-	-	\$ 359,064	\$ 359,064	\$ -	\$ -
Iroquois Receipts	1	Iroquois	181003	854	854	-	-	\$ 53,655	\$ 53,655	\$ -	\$ -
Iroquois Receipts	2A	Tennessee	95196	1,382	1,382	-	-	\$ 101,056	\$ 101,056	\$ -	\$ -
Iroquois Receipts	2B	Tennessee	95196	844	844	-	-	\$ 61,716	\$ 61,716	\$ -	\$ -
Iroquois Receipts	3B	Granite	19-100-FT-NN	841	841	-	-	\$ 62,129	\$ 62,129	\$ -	\$ -
Iroquois Receipts	2C	Tennessee	41099	4,267	4,267	-	-	\$ 312,017	\$ 312,017	\$ -	\$ -
Iroquois Receipts	3C	Algonquin	93002F	4,211	4,211	-	-	\$ 434,206	\$ 434,206	\$ -	\$ -
Leidy Hub	1	Texas Eastern	800384	965	965	-	-	\$ 81,824	\$ 81,824	\$ -	\$ -
Leidy Hub	2	Algonquin	93201A1C	965	965	-	-	\$ 99,503	\$ 99,503	\$ -	\$ -
Transco Zone 6, non-NY	1	Algonquin	93201A1C	286	286	-	-	\$ 29,490	\$ 29,490	\$ -	\$ -
PXP Dawn Hub	1	Union	M12296	10,250	10,250	-	-	\$ 371,632	\$ 371,632	\$ -	\$ -
PXP Dawn Hub	2	TransCanada	63265	10,017	10,017	-	-	\$ 2,067,401	\$ 2,067,401	\$ -	\$ -
PXP Dawn Hub	3	PNGTS	233320	10,000	10,000	-	-	\$ 2,737,500	\$ 2,737,500	\$ -	\$ -
PXP Dawn Hub	4	Granite	19-100-FT-NN	9,965	9,965	-	-	\$ 736,170	\$ 736,170	\$ -	\$ -
WXP Dawn Hub	1	Union	M12279	10,307	10,307	-	-	\$ 373,699	\$ 373,699	\$ -	\$ -
WXP Dawn Hub	2	TransCanada	TBD	10,104	10,104	-	-	\$ 2,085,356	\$ 2,085,356	\$ -	\$ -
WXP Dawn Hub	3	PNGTS	240520	10,000	10,000	-	-	\$ 2,993,004	\$ 2,993,004	\$ -	\$ -
WXP Dawn Hub	4	Granite	19-100-FT-NN	9,965	9,965	-	-	\$ 736,170	\$ 736,170	\$ -	\$ -
Atlantic Bridge	1	Algonquin	510939	7,599	7,599	-	-	\$ 5,007,771	\$ 5,007,771	\$ -	\$ -
Atlantic Bridge	2	Maritimes	210363	7,500	7,500	-	-	\$ 1,204,500	\$ 1,204,500	\$ -	\$ -
Tennessee Firm Storage	2	Tennessee	5265	2,653	-	2,653	-	\$ 220,725	\$ -	\$ 220,725	\$ -
Tennessee Firm Storage	3	Granite	19-100-FT-NN	2,644	-	2,644	-	\$ 195,327	\$ -	\$ 195,327	\$ -
Union Dawn Storage	2	Union	M12256	40,720	-	40,720	-	\$ 1,476,377	\$ -	\$ 1,476,377	\$ -
Union Dawn Storage	3A	TransCanada	57901	34,000	-	34,000	-	\$ 7,017,233	\$ -	\$ 7,017,233	\$ -
Union Dawn Storage	3B	TransCanada	57055	6,003	-	6,003	-	\$ 1,238,954	\$ -	\$ 1,238,954	\$ -
Union Dawn Storage	4	PNGTS	208543	40,003	-	40,003	-	\$ 8,760,657	\$ -	\$ 8,760,657	\$ -
Union Dawn Storage	5	Granite	19-100-FT-NN	39,149	-	39,149	-	\$ 2,892,156	\$ -	\$ 2,892,156	\$ -
Union Dawn Storage	6	Granite	19-100-FT-NN	714	-	714	-	\$ 26,374	\$ -	\$ 26,374	\$ -
Peaking Capacity (Nov-Apr)	N/A	Granite	19-100-FT-NN	43,286	-	-	43,286	\$ 1,598,890	\$ -	\$ -	\$ 1,598,890
Total Annual Demand Costs								\$ 47,528,724	\$ 24,102,032	\$ 21,827,803	\$ 1,598,890

Northern Utilities, Inc.
 Storage Contract Demand Cost Estimates
 November 1, 2022 through October 31, 2023

Vendor	Contract ID	Rate	Negotiated	MSQ (Dth)	MDWQ	Space Rate	Demand Rate	Months Per Year	Reference (Att NUI-FXW-10, Page 2)	Annual Space Charge	Annual Demand Charge	Annual Fixed Charges
Tennessee	5195	FS-MA	No	259,337	4,243	\$ 0.0173	\$ 1.2655	12	Line 1	\$ 53,838	\$ 64,434	\$ 118,273
Union	LST086	Storage	Yes	4,000,000	41,200	\$ 0.0592		5	Line 2	\$ 1,183,333		\$ 1,183,333
Union	LST155	Storage	Yes	6,000,000	63,000	\$ 0.0692		7	Line 2	\$ 2,905,000		\$ 2,905,000

Total Annual Fixed Charges

\$ 4,206,606

MSQ = Maximum Space Quantity

MDWQ = Maximum Daily Withdrawal Quantity

REDACTED

Northern Utilities, Inc.
Peaking Contract Demand Cost Estimates
November 1, 2022 through October 31, 2023

Denotes Confidential Information

Resource	Supplier	Contract Quantity	Maximum Daily Quantity	Months per Year	Annual Fixed Charges
LNG Contract		75,000	5,000	5	
Peaking Contract 1		600,000	40,000	5	
Total Peaking Supply Contract Demand Costs					\$ 11,428,417

REDACTED

Northern Utilities, Inc.
Asset Management and Capacity Release Revenue Projections
November 1, 2022 through October 31, 2023

Denotes Confidential Information	
Capacity Path	Projected Revenue
Tennessee Zone 0/L Pools	
Tennessee Niagara	
Iroquois Receipts	
Leidy Hub & Transco Zone 6, non-NY	
Atlantic Bridge	
Union Dawn Storage, PXP Dawn Hub & WXP Dawn Hub	
Total Asset Management	\$ (20,934,600)

Northern Utilities, Inc. New Hampshire Division Retail Marketer Capacity Assignment Revenue Projections November 2022 through October 2023		
Item	Revenue	Reference
Pipeline Contract Capacity Assignment	\$ (4,842,747)	Page 2
Storage Contract Capacity Assignment	\$ (394,069)	Page 3
On-System Peaking Service Demand	\$ (265,687)	Page 4
Asset Management Revenue Assigned to Retail Suppliers	\$ 44,761	Page 5
Total Division Capacity Assignment Demand Revenue	\$ (5,457,743)	Sum of Items Above

Northern Utilities, Inc. New Hampshire Division Pipeline Capacity Assignment Estimates November 2022 through October 2023														
Capacity Path	Segment	Pipeline	Contract ID	Pipeline Allocated Cost	Storage Allocated Cost	Peaking Allocated Cost	Capacity Assigned? (Y/N)	Assigned Pipeline MDQ	Assigned Storage MDQ	Assigned Peaking MDQ	Assigned Pipeline Credits	Assigned Storage Credits	Assigned Peaking Credits	NH Annual Cap Assign Credit
Tennessee Zone 0/L Pools	1A	Tennessee	5083	\$ 1,088,594	\$ -	\$ -	Y	(506)	-	-	\$ (119,615)	\$ -	\$ -	\$ (119,615)
Tennessee Zone 0/L Pools	2A	Granite	19-100-FT-NN	\$ 339,015	\$ -	\$ -	Y	(504)	-	-	\$ (37,233)	\$ -	\$ -	\$ (37,233)
Tennessee Zone 0/L Pools	1B	Tennessee	5083	\$ 1,794,484	\$ -	\$ -	Y	(939)	-	-	\$ (197,078)	\$ -	\$ -	\$ (197,078)
Tennessee Zone 0/L Pools	2B	Granite	19-100-FT-NN	\$ 629,420	\$ -	\$ -	Y	(936)	-	-	\$ (69,148)	\$ -	\$ -	\$ (69,148)
Tennessee Niagara	1A	Tennessee	5292	\$ 102,811	\$ -	\$ -	Y	(154)	-	-	\$ (11,261)	\$ -	\$ -	\$ (11,261)
Tennessee Niagara	2A	Granite	19-100-FT-NN	\$ 103,500	\$ -	\$ -	Y	(154)	-	-	\$ (11,377)	\$ -	\$ -	\$ (11,377)
Tennessee Niagara	1B	Tennessee	39735	\$ 67,931	\$ -	\$ -	Y	(102)	-	-	\$ (7,459)	\$ -	\$ -	\$ (7,459)
Tennessee Niagara	2B	Granite	19-100-FT-NN	\$ 68,409	\$ -	\$ -	Y	(102)	-	-	\$ (7,535)	\$ -	\$ -	\$ (7,535)
Iroquois Receipts	1	Iroquois	181003	\$ 359,064	\$ -	\$ -	Y	(628)	-	-	\$ (39,456)	\$ -	\$ -	\$ (39,456)
Iroquois Receipts	1	Iroquois	181003	\$ 53,655	\$ -	\$ -	Y	(94)	-	-	\$ (5,906)	\$ -	\$ -	\$ (5,906)
Iroquois Receipts	2A	Tennessee	95196	\$ 101,056	\$ -	\$ -	Y	(152)	-	-	\$ (11,115)	\$ -	\$ -	\$ (11,115)
Iroquois Receipts	2B	Tennessee	95196	\$ 61,716	\$ -	\$ -	Y	(93)	-	-	\$ (6,800)	\$ -	\$ -	\$ (6,800)
Iroquois Receipts	3B	Granite	19-100-FT-NN	\$ 62,129	\$ -	\$ -	Y	(92)	-	-	\$ (6,797)	\$ -	\$ -	\$ (6,797)
Iroquois Receipts	2C	Tennessee	41099	\$ 312,017	\$ -	\$ -	Y	(469)	-	-	\$ (34,295)	\$ -	\$ -	\$ (34,295)
Iroquois Receipts	3C	Algonquin	93002F	\$ 434,206	\$ -	\$ -	Y	(463)	-	-	\$ (47,741)	\$ -	\$ -	\$ (47,741)
Leidy Hub	1	Texas Eastern	800384	\$ 81,824	\$ -	\$ -	Y	(106)	-	-	\$ (8,988)	\$ -	\$ -	\$ (8,988)
Leidy Hub	2	Algonquin	93201A1C	\$ 99,503	\$ -	\$ -	Y	(106)	-	-	\$ (10,930)	\$ -	\$ -	\$ (10,930)
Transco Zone 6, non-NY	1	Algonquin	93201A1C	\$ 29,490	\$ -	\$ -	Y	(31)	-	-	\$ (3,196)	\$ -	\$ -	\$ (3,196)
PXP Dawn Hub	1	Union	M12296	\$ 371,632	\$ -	\$ -	Y	(1,126)	-	-	\$ (40,825)	\$ -	\$ -	\$ (40,825)
PXP Dawn Hub	2	TransCanada	63265	\$ 2,067,401	\$ -	\$ -	Y	(1,101)	-	-	\$ (227,235)	\$ -	\$ -	\$ (227,235)
PXP Dawn Hub	3	PNGTS	233320	\$ 2,737,500	\$ -	\$ -	Y	(1,099)	-	-	\$ (300,851)	\$ -	\$ -	\$ (300,851)
PXP Dawn Hub	4	Granite	19-100-FT-NN	\$ 736,170	\$ -	\$ -	Y	(1,095)	-	-	\$ (80,894)	\$ -	\$ -	\$ (80,894)
WXP Dawn Hub	1	Union	M12279	\$ 373,699	\$ -	\$ -	Y	(1,132)	-	-	\$ (41,043)	\$ -	\$ -	\$ (41,043)
WXP Dawn Hub	2	TransCanada	TBD	\$ 2,085,356	\$ -	\$ -	Y	(1,110)	-	-	\$ (229,092)	\$ -	\$ -	\$ (229,092)
WXP Dawn Hub	3	PNGTS	240520	\$ 2,993,004	\$ -	\$ -	Y	(1,099)	-	-	\$ (328,931)	\$ -	\$ -	\$ (328,931)
WXP Dawn Hub	4	Granite	19-100-FT-NN	\$ 736,170	\$ -	\$ -	Y	(1,095)	-	-	\$ (80,894)	\$ -	\$ -	\$ (80,894)
Atlantic Bridge	1	Algonquin	510939	\$ 5,007,771	\$ -	\$ -	Y	(835)	-	-	\$ (550,268)	\$ -	\$ -	\$ (550,268)
Atlantic Bridge	2	Maritimes	210363	\$ 1,204,500	\$ -	\$ -	Y	(824)	-	-	\$ (132,334)	\$ -	\$ -	\$ (132,334)
Tennessee Firm Storage	2	Tennessee	5265	\$ -	\$ 220,725	\$ -	Y	-	(249)	-	\$ -	\$ (20,716)	\$ -	\$ (20,716)
Tennessee Firm Storage	3	Granite	19-100-FT-NN	\$ -	\$ 195,327	\$ -	Y	-	(248)	-	\$ -	\$ (18,321)	\$ -	\$ (18,321)
Union Dawn Storage	2	Union	M12256	\$ -	\$ 1,476,377	\$ -	Y	-	(3,815)	-	\$ -	\$ (138,320)	\$ -	\$ (138,320)
Union Dawn Storage	3A	TransCanada	57901	\$ -	\$ 7,017,233	\$ -	Y	-	(3,185)	-	\$ -	\$ (657,350)	\$ -	\$ (657,350)
Union Dawn Storage	3B	TransCanada	57055	\$ -	\$ 1,238,954	\$ -	Y	-	(562)	-	\$ -	\$ (115,991)	\$ -	\$ (115,991)
Union Dawn Storage	4	PNGTS	208543	\$ -	\$ 8,760,657	\$ -	Y	-	(3,747)	-	\$ -	\$ (820,593)	\$ -	\$ (820,593)
Union Dawn Storage	5	Granite	19-100-FT-NN	\$ -	\$ 2,892,156	\$ -	Y	-	(3,667)	-	\$ -	\$ (270,902)	\$ -	\$ (270,902)
Union Dawn Storage	6	Granite	19-100-FT-NN	\$ -	\$ 26,374	\$ -	Y	-	(67)	-	\$ -	\$ (2,475)	\$ -	\$ (2,475)
Peaking Capacity (Nov-Apr)	N/A	Granite	19-100-FT-NN	\$ -	\$ -	\$ 1,598,890	Y	-	-	(4,055)	\$ -	\$ -	\$ (149,783)	\$ (149,783)
Total Capacity Assignment Credits											\$ (2,648,297)	\$ (2,044,667)	\$ (149,783)	\$ (4,842,747)

Northern Utilities, Inc.								
New Hampshire Division Storage Contract Capacity Assignment Estimates								
November 2022 through October 2023								
Vendor	Contract ID	Annual Fixed Charges	Capacity Assigned (Y/N)	Company Managed (Y/N)	Storage Assigned ME	Assigned MSQ	Assigned MDWQ	Annual Cap Assign Credit
Tennessee	5195	\$ 118,273	Y	N	9.37%	(24,294)	(397)	\$ (11,080)
Union	LST068	\$ 1,183,333	Y	N	9.37%	(374,715)	(3,860)	\$ (110,853)
Union	LST068	\$ 2,905,000	Y	N	9.37%	(562,072)	(5,902)	\$ (272,137)

Total Division Storage Capacity Assignment \$ (394,069)

MSQ = Maximum Space Quantity
 MDWQ = Maximum Daily Withdrawal Quantity

Northern Utilities, Inc. New Hampshire Division On-System Peaking Demand Capacity Assignment Revenues November 2022 through October 2023			
Month	On-System Peaking Demand TCQ	Rate	Demand Revenue
Nov-22	609	\$ 72.72	\$ (44,281)
Dec-22	609	\$ 72.72	\$ (44,281)
Jan-23	609	\$ 72.72	\$ (44,281)
Feb-23	609	\$ 72.72	\$ (44,281)
Mar-23	609	\$ 72.72	\$ (44,281)
Apr-23	609	\$ 72.72	\$ (44,281)
Total Division Peaking Demand Revenue			\$ (265,687)

REDACTED

Northern Utilities, Inc. - New Hampshire Division					
Asset Management and Capacity Release Revenue Assigned to Retail Suppliers					
November 2022 through October 2023					
Indicates Confidential Information					
Resources	Projected Value	Company-Managed Resources	Resource Type	Percentage Capacity Assigned	Annual Value to Retail Marketers
Tennessee Zone 0/L Pools		No	Pipeline	10.99%	
Tennessee Niagara		No	Pipeline	10.99%	
Iroquois Receipts		Yes	Pipeline	10.99%	
Leidy Hub & Transco Zone 6, non-NY		Yes	Pipeline	10.99%	
Atlantic Bridge		No	Pipeline	10.99%	
Union Dawn Storage, PXP Dawn Hub & WXP Dawn Hub		No	Storage	9.37%	
Total Asset Management	\$ (20,934,600)				\$ 44,761

REDACTED

Northern Utilities, Inc.			
New Hampshire Division Peaking Capacity Assignment Demand Rate			
November 2022 through October 2023			
Indicates Confidential Information			
Line	Description	Northern	NH Division
2	Capacity Allocation Factor		40.86%
3	Peaking Plants	6,500	2,656
4	Total	6,500	2,656
5	LNG Demand Costs		
6	Peaking Plants Fixed Costs		\$ 420,658
7	Total On-System Peaking Fixed Costs		\$ 1,158,896
8	NH Division Peaking Service Demand Rate		\$ 72.72

Northern Utilities
 New Hampshire Division
 Retail Supplier Capacity Assignment Estimates
 November 2022 through October 2023

HLF Allocation 65.64% 15.82% 18.54% 100.00%
 LLF Allocation 29.51% 32.47% 38.02% 100.00%

	Pipeline MDQ	Storage MDQ	Peaking MDQ	Total MDQ
HLF TCQ	2,475	596	699	3,770
LLF TCQ	3,073	3,382	3,960	10,415
Retail Supplier Total	5,554	3,982	4,664	14,200
Northern MDQ	50,551	42,507	49,786	142,844
Cap Assign/ Total MDQ	10.99%	9.37%	9.37%	9.94%

On System Peaking	6,500
On System Peaking Allocation	13.06%

Northern Utilities - New Hampshire Division
Capacity Assignment Calculations 2022-2023
Derivation of Class Assignments and Weightings

Basic assumptions:

- 1 The MBA method allocates capacity costs based on design day demands in two pieces:
 - a The base use portion of the class design day demand based on base use
 - b The remaining portion of design day demand based on remaining design day demand
- 2 Base demand is composed solely of pipeline supplies
- 3 Remaining demand consists of a portion of pipeline and all storage and peaking supplies

	Design Day Demand, Dt	Adjusted Design Day Demand, Dt	Percent of Total	Avg Daily Base Use Load, Dt	Remaining Design Day Demand
1	RATE A-Resi Non-Htg	183	0.3%	32	142
2	RATE B-Resi Htg	23,681	36.7%	1,396	21,000
3	RATE G-40	12,594	19.5%	493	11,417
4	RATE G-50	697	1.1%	254	405
5	RATE G-41	8,418	13.0%	473	7,489
6	RATE G-51	1,600	2.5%	427	1,086
7	RATE G-42	2,037	3.2%	118	1,809
8	RATE G-52	338	0.5%	182	138
9	Special Contract	1,765	2.7%	1,456	213
10	RATE T-40	1,750	2.7%	137	1,518
11	RATE T-50	128	0.2%	61	61
12	RATE T-41	8,253	12.8%	716	7,090
13	RATE T-51	1,429	2.2%	506	845
14	RATE T-42	1,008	1.6%	124	830
15	RATE T-52	664	1.0%	520	108
16	Total	64,547	100.0%	6,893	54,152
17					-
18	Residential Total	23,864	37.0%	1,427	21,142
19	LLF Total	34,061	52.8%	2,060	30,153
20	HLF Total	6,622	10.3%	3,405	2,857
21	Total	64,547	100.0%	6,893	54,152

	Residential MDQ, Dt	Total C&I MDQ, Dt	LLF C&I MDQ, Dt	HLF C&I MDQ, Dt	Total MDQ, Dt	
24						
25	Residential Allocation					
26	Pipeline - Base	1,427	5,466	2,060	3,405	6,893
27	Pipeline - Remaining	6,560	8,150	7,445	705	14,710
28	Storage	6,716	11,449	10,459	991	18,165
29	Peaking	7,866	13,410	12,249	1,161	21,276
30	Total	22,569	38,476	32,213	6,262	61,045
31	Check - Should be 0	-	-	-	-	-

33 Capacity Allocations %s

	LLF C&I	HLF C&I	
34			
35	Pipeline	29.51%	65.64%
36	Storage	32.47%	15.82%
37	Peaking	38.02%	18.54%
38	Total	100.00%	100.00%

Northern Utilities
New Hampshire Division Capacity Assignment Calculations

	HLF	LLF	Total TCQ	Capacity Assignment	Pipeline MDQ	Storage MDQ	Peaking MDQ	Total MDQ
Retail Supplier Total	3,770	10,415	14,185	14,200	6,192	3,688	4,320	14,200
Northern -Total MDQ					21,603	18,165	21,276	61,045
NH Cap Assign/ Total MDQ		CHECK S/B 0 ->	0		28.66%	20.30%	20.30%	23.26%
HLF Capacity Allocator					69.09%	14.24%	16.67%	100.00%
LLF Capacity Allocator					34.38%	30.22%	35.40%	100.00%

Percentage Design Day	42.74%
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Capacity Assignment Plan

Pipeline Capacity Paths	Northern MDQ	NH Division MDQ	Pipeline Assigned %	Capacity Assigned
Tennessee Long-Haul	13,109	5,602	28.67%	1,606
Tennessee Niagara	2,327	994	28.67%	285
Iroquois Receipts	6,434	2,749	28.66%	788
Leidy Supply (Texas Eastern, Algonquin)	965	412	28.64%	118
Transco Zone 6, non-NY Supply (Algonquin)	286	122	28.69%	35
PXP Dawn Hub	9,965	4,259	28.67%	1,221
WXP Dawn Hub	9,965	4,259	28.67%	1,221
Atlantic Bridge Ramapo	7,500	3,205	28.67%	919
Total Pipeline Capacity	50,551	21,602	28.67%	6,193
Storage Capacity Paths	Northern MDQ	NH Division MDQ	Storage Assigned %	Capacity Assigned
Tennessee Firm Storage	2,644	1,130	20.30%	229
Dawn Hub Storage	39,863	17,036	20.30%	3,459
Total Storage Capacity	42,507	18,166	20.30%	3,688
Peaking Capacity Paths	Northern MDQ	NH Division MDQ	Peaking Assigned %	Capacity Assigned
LNG - On-System	6,500	2,778	20.30%	564
Granite - Not assigned as Storage or Pipeline Capacity	43,286	18,498	20.30%	3,756
Total Peaking Capacity	49,786	21,276	20.30%	4,320
Total Capacity	142,844	61,044	23.26%	14,201

Northern Utilities, Inc.
 New Hampshire Division
 Design Day Forecast by Rate Class

2022-2023 Forecast Annual Sales (Dth)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division
Sales Service	23,547	2,022,002	969,161	152,021	710,107	273,597	178,052	84,809	0	2,045,550	1,857,320	510,427	4,413,297
Capacity Assigned Delivery Service	0	0	151,500	26,874	760,401	256,853	106,863	202,064	538,816	0	1,018,764	1,024,608	2,043,372
Capacity Exempt Delivery Service	0	0	1,840	2,085	39,179	14,375	242,363	1,570,426	597,927	0	283,383	2,184,813	2,468,196
Total System	23,547	2,022,002	1,122,501	180,980	1,509,687	544,826	527,279	1,857,299	1,136,743	2,045,550	3,159,467	3,719,848	8,924,865

2022-2023 Forecast Annual Sendout (Dth)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division	Prior Year WN Act Total Division	Percent Change
Sales Service	23,778	2,041,808	978,654	153,510	717,063	276,277	179,796	85,640	0	2,065,586	1,875,513	515,427	4,456,526	4,228,587	5.4%
Capacity Assigned Delivery Service			152,984	27,138	767,848	259,369	107,910	204,043	544,093		1,028,743	1,034,643	2,063,386	2,029,305	1.7%
Capacity Exempt Delivery Service			1,858	2,106	39,563	14,516	244,737	1,585,809	603,783		286,159	2,206,213	2,492,372	2,438,697	2.2%
Total System	23,778	2,041,808	1,133,496	182,753	1,524,474	550,162	532,444	1,875,491	1,147,877	2,065,586	3,190,414	3,756,284	9,012,284	8,696,588	3.6%

2022-2023 Forecast Load Factor Percentage

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division	Prior Year Actual Total Division	Percent Change
Sales Service	35.5%	23.6%	21.3%	60.3%	23.3%	47.3%	24.2%	69.4%		23.7%	22.3%	53.6%	24.6%	24.6%	0.3%
Capacity Assigned Delivery Service			23.9%	57.9%	25.5%	49.7%	29.3%	84.2%	84.4%		25.6%	71.1%	37.7%	37.5%	0.4%
Capacity Exempt Delivery Service			24.7%	67.0%	28.9%	56.2%	39.4%	75.2%	110.1%		37.4%	82.1%	72.2%	72.2%	0.0%
Total System	35.5%	23.6%	21.6%	60.0%	24.5%	48.6%	30.7%	75.8%	96.2%	23.7%	24.2%	73.6%	33.3%	33.5%	-0.6%

2022-2023 Design Day Sendout (Dth)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division	Prior Year Design Day Actual Total Division	Percent Change
Sales Service	183	23,681	12,594	697	8,418	1,600	2,037	338		23,864	23,049	2,635	49,548	47,141	5.1%
Capacity Assigned Delivery Service			1,750	128	8,253	1,429	1,008	664	1,765		11,012	3,987	14,999	14,813	1.3%
Capacity Exempt Delivery Service			21	9	375	71	1,701	5,778	1,503		2,096	7,360	9,456	9,254	2.2%
Total System	183	23,681	14,365	834	17,046	3,099	4,746	6,780	3,268	23,864	36,158	13,982	74,003	71,208	3.9%

2022-2023 Baseload Sendout (Dth)
 (Average Daily July and August Sendout)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division
Sales Service	32	1,396	493	254	473	427	118	182		1,427	1,084	863	3,374
Capacity Assigned Delivery Service			137	61	716	506	124	520	1,456		976	2,543	3,519
Capacity Exempt Delivery Service			2	5	37	28	281	4,038	1,616		320	5,687	6,007
Total System	32	1,396	632	319	1,225	961	522	4,740	3,072	1,427	2,380	9,093	12,900

2022-2023 Planning Load Design Day Sendout (Dth)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division
Sales Service	183	23,681	12,594	697	8,418	1,600	2,037	338		23,864	23,049	2,635	49,548
Capacity Assigned Delivery Service			1,750	128	8,253	1,429	1,008	664	1,765		11,012	3,987	14,999
Capacity Exempt Delivery Service			0	0	0	0	0	0	0		0	0	0
Total System	183	23,681	14,345	825	16,672	3,029	3,045	1,002	1,765	23,864	34,061	6,622	64,547

2022-2023 Planning Load Baseload Sendout (Dth)
 (Average Daily July and August Sendout)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division
Sales Service	32	1,396	493	254	473	427	118	182		1,427	1,084	863	3,374
Capacity Assigned Delivery Service			137	61	716	506	124	520	1,456		976	2,543	3,519
Capacity Exempt Delivery Service			0	0	0	0	0	0	0		0	0	0
Total System	32	1,396	630	315	1,188	933	242	702	1,456	1,427	2,060	3,405	6,893

REDACTED

Denotes Confidential Information

Northern Utilities, Inc. Commodity Cost by Supply Source (\$) November 2022 through October 2023																
Description	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter	Summer	Year	
Pipeline Supplies																
TGP Zone 4 300 Leg Supply																
Tennessee FS-MA Storage Path																
Dawn Supply																
Union Dawn Storage Path																
Leidy Hub																
Texas Eastern Zone M-3																
Transco Zone 6, non-NY																
Algonquin Receipts Pipeline Path																
Tennessee Niagara Pipeline Path																
Tennessee Zone 0																
Tennessee Zone L																
Tennessee Long-Haul Pipeline Path																
Iroquois Receipts Pipeline Path																
Atlantic Bridge Ramapo Pipeline Path																
Total Pipeline	\$ 4,999,465	\$ 11,029,064	\$ 13,739,341	\$ 12,885,448	\$ 8,459,044	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	\$ 56,511,246	\$ 12,986,496	\$ 69,497,742	
NH CM Pipeline (Leidy/M-3)																
ME CM Pipeline (Leidy/M-3)																
NH CM Pipeline (Transco)																
ME CM Pipeline (Transco)																
NH CM Pipeline (Iroq Rec)																
ME CM Pipeline (Iroq Rec)																
Net Pipeline	\$ 4,653,001	\$ 10,571,190	\$ 13,045,845	\$ 12,266,039	\$ 8,070,275	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	\$ 54,005,233	\$ 12,986,496	\$ 66,991,729	
Underground Storage																
Tennessee Storage	\$ 459,987	\$ 475,319	\$ 472,125	\$ 68,917	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,476,348	\$ -	\$ 1,476,348	
Tennessee FS-MA Storage Path	\$ 459,987	\$ 475,319	\$ 472,125	\$ 68,917	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,476,348	\$ -	\$ 1,476,348	
Union Dawn Storage	\$ 4,597,377	\$ 4,266,104	\$ 5,070,664	\$ 5,274,635	\$ 4,177,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,386,129	\$ -	\$ 23,386,129	
Union Dawn Storage Path	\$ 4,597,377	\$ 4,266,104	\$ 5,070,664	\$ 5,274,635	\$ 4,177,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,386,129	\$ -	\$ 23,386,129	
Net Storage	\$ 5,057,363	\$ 4,741,424	\$ 5,542,789	\$ 5,343,552	\$ 4,177,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,862,476	\$ -	\$ 24,862,476	
Peaking Supplies																
Lewiston LNG																
Peaking Contract 1																
Peaking Contract 2																
Off-System Peaking / Incremental Supply																
Total Peaking	\$ 33,715	\$ 599,483	\$ 4,430,597	\$ 1,061,608	\$ 104,433	\$ 95,662	\$ 88,926	\$ 85,409	\$ 88,256	\$ 88,256	\$ 83,732	\$ 86,193	\$ 6,325,497	\$ 520,772	\$ 6,846,269	
NH Peaking Service - (On System)																
ME Peaking Service - (On-System)																
Net Peaking	\$ 33,715	\$ 539,811	\$ 3,908,905	\$ 996,579	\$ 104,433	\$ 95,662	\$ 88,926	\$ 85,409	\$ 88,256	\$ 88,256	\$ 83,732	\$ 86,193	\$ 5,679,104	\$ 520,772	\$ 6,199,876	
Total NUI Commodity	\$ 10,090,543	\$ 16,369,971	\$ 23,712,727	\$ 19,290,608	\$ 12,740,824	\$ 5,494,546	\$ 2,887,609	\$ 1,946,241	\$ 1,804,247	\$ 1,798,761	\$ 1,798,542	\$ 3,271,868	\$ 87,699,220	\$ 13,507,267	\$ 101,206,487	
Company Managed Sales	\$ (346,464)	\$ (517,546)	\$ (1,215,189)	\$ (684,438)	\$ (388,769)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (3,152,406)	\$ -	\$ (3,152,406)	
Net Commodity Costs	\$ 9,744,079	\$ 15,852,425	\$ 22,497,538	\$ 18,606,170	\$ 12,352,055	\$ 5,494,546	\$ 2,887,609	\$ 1,946,241	\$ 1,804,247	\$ 1,798,761	\$ 1,798,542	\$ 3,271,868	\$ 84,546,814	\$ 13,507,267	\$ 98,054,081	

Northern Utilities, Inc.
 Commodity Volumes by Supply Source (Dth)
 November 2022 through October 2023

Description	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter	Summer	Year
Pipeline Supplies															
TGP Zone 4 300 Leg Supply	0	0	449	50,617	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	182,425	396,232	578,658
Tennessee FS-MA Storage Path	0	0	449	50,617	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	182,425	396,232	578,658
Dawn Supply	13,148	382,255	406,504	371,952	228,463	732,159	268,989	97,025	48,526	49,853	85,678	350,639	2,134,481	900,712	3,035,193
Union Dawn Storage Path	13,148	382,255	406,504	371,952	228,463	732,159	268,989	97,025	48,526	49,853	85,678	350,639	2,134,481	900,712	3,035,193
Leidy Hub	28,605	29,535	29,535	26,677	29,535	0	0	0	0	0	0	0	143,888	0	143,888
Texas Eastern Zone M-3	345	380	380	343	380	0	0	0	0	0	0	0	1,827	0	1,827
Transco Zone 6, non-NY	8,580	8,866	8,866	8,008	8,866	0	0	0	0	0	0	0	43,186	0	43,186
Algonquin Receipts Pipeline Path	37,530	38,781	38,781	35,028	38,781	0	0	0	0	0	0	0	188,901	0	188,901
Tennessee Niagara Pipeline Path	55,067	56,902	56,902	51,395	56,902	55,067	56,902	55,067	56,902	56,902	55,067	56,902	332,235	337,742	669,977
Tennessee Zone 0	52,316	112,198	112,198	101,340	112,198	0	0	0	0	0	0	0	490,250	0	490,250
Tennessee Zone L	97,159	208,332	208,332	188,171	208,332	0	0	0	0	0	0	0	910,327	0	910,327
Tennessee Long-Haul Pipeline Path	149,475	320,530	320,530	289,511	320,530	0	0	0	0	0	0	0	1,400,577	0	1,400,577
Iroquois Receipts Pipeline Path	187,700	193,957	193,957	175,187	193,957	0	0	0	0	0	0	0	944,757	0	944,757
Atlantic Bridge Ramapo Pipeline Path	177,480	183,396	183,396	165,648	183,396	177,480	183,396	177,480	183,396	183,396	177,480	183,396	1,070,796	1,088,544	2,159,340
Total Pipeline	620,399	1,175,821	1,200,518	1,139,338	1,088,785	1,029,309	576,044	394,175	355,581	356,908	382,828	657,694	6,254,172	2,723,230	8,977,402
NH CM Pipeline (Leidy/M-3)	-3,180	-3,286	-3,286	-2,968	-3,286	0	0	0	0	0	0	0	-16,006	0	-16,006
ME CM Pipeline (Leidy/M-3)	-2,940	-3,038	-3,038	-2,744	-3,038	0	0	0	0	0	0	0	-14,798	0	-14,798
NH CM Pipeline (Transco)	-930	-961	-961	-868	-961	0	0	0	0	0	0	0	-4,681	0	-4,681
ME CM Pipeline (Transco)	-870	-899	-899	-812	-899	0	0	0	0	0	0	0	-4,379	0	-4,379
NH CM Pipeline (Iroq Rec)	-18,420	-19,034	-19,034	-17,192	-19,034	0	0	0	0	0	0	0	-92,714	0	-92,714
ME CM Pipeline (Iroq Rec)	-17,010	-17,577	-17,577	-15,876	-17,577	0	0	0	0	0	0	0	-85,617	0	-85,617
Net Pipeline	577,049	1,131,026	1,155,723	1,098,878	1,043,990	1,029,309	576,044	394,175	355,581	356,908	382,828	657,694	6,035,977	2,723,230	8,759,207
Underground Storage															
Tennessee Storage	64,603	66,757	66,308	9,679	0	0	0	0	0	0	0	0	207,347	0	207,347
Tennessee FS-MA Storage Path	64,603	66,757	66,308	9,679	0	0	0	0	0	0	0	0	207,347	0	207,347
Union Dawn Storage	617,749	572,943	680,455	707,983	561,116	0	0	0	0	0	0	0	3,140,246	0	3,140,246
Union Dawn Storage Path	617,749	572,943	680,455	707,983	561,116	0	0	0	0	0	0	0	3,140,246	0	3,140,246
Net Storage	682,353	639,699	746,763	717,662	561,116	0	0	0	0	0	0	0	3,347,592	0	3,347,592
Peaking Supplies															
Lewiston LNG	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260	11,040	51,300
Peaking Contract 1	0	2,133	160,283	5,766	0	0	0	0	0	0	0	0	168,181	0	168,181
Peaking Contract 2	0	10,735	30,730	18,530	0	0	0	0	0	0	0	0	59,995	0	59,995
Off-System Peaking / Incremental Supply	0	12,867	191,013	24,296	0	0	0	0	0	0	0	0	228,177	0	228,177
Total Peaking	1,800	14,727	222,273	25,976	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	268,437	11,040	279,477
NH Peaking Service - (On System)	0	-1,218	-5,200	-609	0	0	0	0	0	0	0	0	-7,027	0	-7,027
ME Peaking Service - (On-System)	0	-1,194	-5,097	-597	0	0	0	0	0	0	0	0	-6,888	0	-6,888
Net Peaking	1,800	12,315	211,976	24,770	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	254,522	11,040	265,562
Total NUI Commodity	1,304,552	1,830,248	2,169,555	1,882,976	1,651,761	1,031,109	577,904	395,975	357,441	358,768	384,628	659,554	9,870,201	2,734,270	12,604,471
Company Managed Sales	-43,350	-47,207	-55,092	-41,666	-44,795	0	0	0	0	0	0	0	-232,110	0	-232,110
Net Commodity Costs	1,261,202	1,783,041	2,114,463	1,841,310	1,606,966	1,031,109	577,904	395,975	357,441	358,768	384,628	659,554	9,638,091	2,734,270	12,372,361

REDACTED

Denotes Confidential Information

Northern Utilities, Inc.
 Average Delivered Commodity Cost by Supply Source (\$/Dth)
 November 2022 through October 2023

Description	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter	Summer	Year
Pipeline Supplies															
TGP Zone 4 300 Leg Supply															
Tennessee FS-MA Storage Path															
Dawn Supply															
Union Dawn Storage Path															
Leidy Hub															
Texas Eastern Zone M-3															
Transco Zone 6, non-NY															
Algonquin Receipts Pipeline Path															
Tennessee Niagara Pipeline Path															
Tennessee Zone 0															
Tennessee Zone L															
Tennessee Long-Haul Pipeline Path															
Iroquois Receipts Pipeline Path															
Atlantic Bridge Ramapo Pipeline Path															
Total Pipeline	\$ 8,058	\$ 9,380	\$ 11,445	\$ 11,310	\$ 7,769	\$ 5,245	\$ 4,858	\$ 4,721	\$ 4,826	\$ 4,793	\$ 4,479	\$ 4,844	\$ 9,036	\$ 4,769	\$ 7,741
NH CM Pipeline (Leidy/M-3)															
ME CM Pipeline (Leidy/M-3)															
NH CM Pipeline (Transco)															
ME CM Pipeline (Transco)															
NH CM Pipeline (Iroq Rec)															
ME CM Pipeline (Iroq Rec)															
Net Pipeline	\$ 8,063	\$ 9,347	\$ 11,288	\$ 11,162	\$ 7,730	\$ 5,245	\$ 4,858	\$ 4,721	\$ 4,826	\$ 4,793	\$ 4,479	\$ 4,844	\$ 8,947	\$ 4,769	\$ 7,648
Underground Storage															
Tennessee Storage	\$ 7,120	\$ 7,120	\$ 7,120	\$ 7,120									\$ 7,120		\$ 7,120
Tennessee FS-MA Storage Path	\$ 7,120	\$ 7,120	\$ 7,120	\$ 7,120									\$ 7,120		\$ 7,120
Union Dawn Storage	\$ 7,442	\$ 7,446	\$ 7,452	\$ 7,450	\$ 7,445								\$ 7,447		\$ 7,447
Union Dawn Storage Path	\$ 7,442	\$ 7,446	\$ 7,452	\$ 7,450	\$ 7,445								\$ 7,447		\$ 7,447
Net Storage	\$ 7,412	\$ 7,412	\$ 7,422	\$ 7,446	\$ 7,445								\$ 7,427		\$ 7,427
Peaking Supplies															
Lewiston LNG															
Peaking Contract 1															
Peaking Contract 2															
Off-System Peaking / Incremental Sup															
Total Peaking	\$ 18,730	\$ 40,705	\$ 19,933	\$ 40,869	\$ 56,147	\$ 53,146	\$ 47,810	\$ 47,449	\$ 47,449	\$ 47,449	\$ 46,518	\$ 46,340	\$ 23,564	\$ 47,171	\$ 24,497
NH Peaking Service - (On System)															
ME Peaking Service - (On-System)															
Net Peaking	\$ 18,730	\$ 43,832	\$ 18,440	\$ 40,234	\$ 56,147	\$ 53,146	\$ 47,810	\$ 47,449	\$ 47,449	\$ 47,449	\$ 46,518	\$ 46,340	\$ 22,313	\$ 47,171	\$ 23,346
Total NUI Commodity	\$ 7,735	\$ 8,944	\$ 10,930	\$ 10,245	\$ 7,713	\$ 5,329	\$ 4,997	\$ 4,915	\$ 5,048	\$ 5,014	\$ 4,676	\$ 4,961	\$ 8,885	\$ 4,940	\$ 8,029
Company Managed Sales	\$ 7,992	\$ 10,963	\$ 22,057	\$ 16,427	\$ 8,679							\$ 13,582	\$ 13,582		\$ 13,582
Net Commodity Costs	\$ 7,726	\$ 8,891	\$ 10,640	\$ 10,105	\$ 7,687	\$ 5,329	\$ 4,997	\$ 4,915	\$ 5,048	\$ 5,014	\$ 4,676	\$ 4,961	\$ 8,772	\$ 4,940	\$ 7,925

Source of Supply: TGP Zone 4 300 Leg Supply (Tennessee FS-MA Storage Path)

Denotes Confidential Information		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	City Gate Delivered Costs														
1	Purchased Volumes			457	51,563	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	185,835	403,638
2	City Gate Delivered Volume			449	50,617	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	182,425	396,232
3	Total Purchase Cost														
4	Variable Transportation Costs														
5	Total City Gate Delivered Costs			\$ 47	\$ 5,252	\$ 6,927	\$ 6,703	\$ 6,927	\$ 6,703	\$ 6,927	\$ 6,927	\$ 6,703	\$ 6,927	\$ 18,928	\$ 41,112
6	Average Delivered Price														
7															
8	Tennessee Zone 4 Supply Costs														
9	Purchased Volumes			457	51,563	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	185,835	403,638
10	Monthly NYMEX Price	\$ 7.901	\$ 8.036	\$ 8.115	\$ 7.818	\$ 6.705	\$ 5.352	\$ 5.219	\$ 5.278	\$ 5.340	\$ 5.357	\$ 5.345	\$ 5.411	\$ 6.538	\$ 5.325
11	NYMEX Cost			\$ 3,709	\$ 403,121	\$ 455,969	\$ 352,218	\$ 354,914	\$ 347,348	\$ 363,143	\$ 364,299	\$ 351,758	\$ 367,971	\$ 1,215,017	\$ 2,149,433
12	NYMEX Basis Price														
13	NYMEX Basis Costs														
14	Total Purchase Price														
15	Total Purchase Cost														
16															
17	Transportation Fuel Losses and Variable Charges														
18	Tennessee Gas Pipeline (Contract 5265)														
19	Receipt Point: Tennessee Zone 4 Station 313 Pool														
20	Delivery Point: Pleasant St. (Interconnection with Granite)														
21	Total Contract Received Volume	65,811	68,004	68,004	61,423	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	397,057	403,638
22	Received Volume	-	-	457	51,563	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	185,835	403,638
23	Percentage Allocated	0.00%	0.00%	0.67%	83.95%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	46.80%	100.00%
24	Received Volume	-	-	457	51,563	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	185,835	403,638
25	Fuel Loss Rate			1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%
26	Delivered Volume	-	-	450	50,795	66,991	64,830	66,991	64,830	66,991	66,991	64,830	66,991	183,066	397,624
27	Variable Transportation Rate			\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019
28	Variable Transportation Costs	\$ -	\$ -	\$ 46	\$ 5,176	\$ 6,826	\$ 6,606	\$ 6,826	\$ 6,606	\$ 6,826	\$ 6,826	\$ 6,606	\$ 6,826	\$ 18,654	\$ 40,518
29															
30	Granite State Gas Transmission (Contract 19-100-FT-NN)														
31	Receipt Point: Pleasant St.														
32	Delivery Point: Northern City Gates														
33	Received Volume	-	-	450	50,795	66,991	64,830	66,991	64,830	66,991	66,991	64,830	66,991	183,066	397,624
34	Fuel Loss Rate	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%
35	City Gate Delivered Volume	-	-	449	50,617	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	182,425	396,232
36	Variable Transportation Rate	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
37	Variable Transportation Costs	\$ -	\$ -	\$ 1	\$ 76	\$ 100	\$ 97	\$ 100	\$ 97	\$ 100	\$ 100	\$ 97	\$ 100	\$ 274	\$ 594

Source of Supply: Leidy Hub

		Denotes Confidential Information												2022-2023	2023		
Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter	Summer	
1	Purchased Volumes	Line 9	29,104	30,327	30,327	27,393	30,184	-	-	-	-	-	-	-	147,335	-	
2	City Gate Delivered Volume	Line 35	28,605	29,535	29,535	26,677	29,535	-	-	-	-	-	-	-	143,888	-	
3	Total Purchase Cost	Line 15															
4	Variable Transportation Costs	Sum Lines 25 and 37	\$ 3,445	\$ 3,559	\$ 3,559	\$ 3,214	\$ 3,559	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,335	\$ -	
5	Total City Gate Delivered Costs	Sum Lines 3 and 4															
6	Average Delivered Price	Line 5 divided by Line 2															
7																	
8	Texas Eastern Zone M-3 Purchases																
9	Purchased Volumes	Sendout Optimization	29,104	30,327	30,327	27,393	30,184	-	-	-	-	-	-	-	147,335	-	
10	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 8,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 7,712	-	
11	NYMEX Cost	Line 9 times Line 10	\$ 229,953	\$ 243,681	\$ 246,107	\$ 214,155	\$ 202,381	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,136,277	\$ -	
12	NYMEX Basis Price	Att FXW-10, Line 7 of Page 1															
13	NYMEX Basis Costs	Line 9 times Line 12															
14	Total Purchase Price	Line 10 plus Line 12															
15	Total Purchase Cost	Line 11 plus Line 13															
16																	
17	Transportation Fuel Losses and Variable Charges																
18	Texas Eastern Pipeline (Contract 800384)																
19	Receipt Point: Leidy Hub																
20	Delivery Point: Lambertville, NJ																
21	Received Volume	Line 15	29,104	30,327	30,327	27,393	30,184	-	-	-	-	-	-	-	147,335	-	
22	Fuel Loss Rate	Att FXW-10, Line 42 of Page 2	0.53%	1.36%	1.36%	1.36%	0.89%	-	-	-	-	-	-	-	1.10%	-	
23	Delivered Volume	Line 21 times (1 - Line 22)	28,950	29,915	29,915	27,020	29,915	-	-	-	-	-	-	-	145,715	-	
24	Variable Transportation Rate	Att FXW-10, Line 28 of Page 2	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0769	\$ -	
25	Variable Transportation Costs	Line 23 times Line 24	\$ 2,226	\$ 2,300	\$ 2,300	\$ 2,078	\$ 2,300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,205	\$ -	
26																	
27	Algonquin Pipeline (Contract 93201A1C)																
28	Receipt Point: Lambertville, NJ																
29	Delivery Point: Bay State City Gate (Delivered to Northern via Exchange Agreement)																
30	Total Contract Received Volume	Sendout Optimization	29,299	30,300	30,300	27,368	30,300	-	-	-	-	-	-	-	147,566	-	
31	Received Volume	Line 14	28,950	29,915	29,915	27,020	29,915	-	-	-	-	-	-	-	145,715	-	
32	Percentage Allocated	Line 31 divided by Line 30	98.81%	98.73%	98.73%	98.73%	98.73%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	98.75%	0.00%	
33	Received Volume	Line 15	28,950	29,915	29,915	27,020	29,915	-	-	-	-	-	-	-	145,715	-	
34	Fuel Loss Rate	Att FXW-10, Line 30 of Page 2	1.19%	1.27%	1.27%	1.27%	1.27%	-	-	-	-	-	-	-	1.25%	-	
35	City Gate Delivered Volume	Line 33 times (1 - Line 34)	28,605	29,535	29,535	26,677	29,535	-	-	-	-	-	-	-	143,888	-	
36	Variable Transportation Rate	Att FXW-10, Line 16 of Page 2	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0426	\$ -	
37	Variable Transportation Costs	Line 35 times Line 36	\$ 1,219	\$ 1,258	\$ 1,258	\$ 1,136	\$ 1,258	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,130	\$ -	

Source of Supply: Tennessee Niagara Pipeline Path

Denotes Confidential Information		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	Purchased Volumes	55,869	57,731	57,731	52,144	57,731	55,869	57,731	55,869	57,731	57,731	55,869	57,731	337,076	342,663
2	City Gate Delivered Volume	55,067	56,902	56,902	51,395	56,902	55,067	56,902	55,067	56,902	56,902	55,067	56,902	332,235	337,742
3	Total Purchase Cost														
4	Variable Transportation Costs	\$ 4,349	\$ 4,494	\$ 4,494	\$ 4,059	\$ 4,494	\$ 4,349	\$ 4,494	\$ 4,349	\$ 4,494	\$ 4,494	\$ 4,349	\$ 4,494	\$ 26,237	\$ 26,672
5	Total City Gate Delivered Costs														
6	Average Delivered Price														
7															
8	Niagara Supply Costs														
9	Block 1 Nov-Mar NYMEX Lock Volume														
10	Block 1 Nov-Mar NYMEX Lock Price	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610									
11	Block 1 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -									
12	Block 1 Dec-Feb NYMEX Lock Volume														
13	Block 1 Dec-Feb NYMEX Lock Price		\$ 8,800	\$ 8,800	\$ 8,800										
14	Block 1 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -										
15	Block 2 Nov-Mar NYMEX Lock Volume	36,300	37,510	37,510	33,880	37,510									
16	Block 2 Nov-Mar NYMEX Lock Price	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660									
17	Block 2 Nov-Mar NYMEX Lock Cost	\$ 205,458	\$ 212,307	\$ 212,307	\$ 191,761	\$ 212,307									
18	Block 2 Dec-Feb NYMEX Lock Volume		8,866	8,866	8,008										
19	Block 2 Dec-Feb NYMEX Lock Price		\$ 5,830	\$ 5,830	\$ 5,830										
20	Block 2 Dec-Feb NYMEX Lock Cost		\$ 51,689	\$ 51,689	\$ 46,687										
21	Block 3 Nov-Mar NYMEX Lock Volume														
22	Block 3 Nov-Mar NYMEX Lock Price														
23	Block 3 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -									
24	Block 3 Dec-Feb NYMEX Lock Volume														
25	Block 3 Dec-Feb NYMEX Lock Price														
26	Block 3 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -										
27	Block 4 Nov-Mar NYMEX Lock Volume														
28	Block 4 Nov-Mar NYMEX Lock Price														
29	Block 4 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -									
30	Block 4 Dec-Feb NYMEX Lock Volume														
31	Block 4 Dec-Feb NYMEX Lock Price														
32	Block 4 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -										
33	Total NYMEX Lock Volume	36,300	46,376	46,376	41,888	37,510									
34	Weighted Average NYMEX Lock Price	\$ 5,660	\$ 5,693	\$ 5,693	\$ 5,693	\$ 5,660									
35	Total NYMEX Lock Cost	\$ 205,458	\$ 263,995	\$ 263,995	\$ 238,447	\$ 212,307									
36	NYMEX Variable Volume	19,569	11,355	11,355	10,256	20,221	55,869	57,731	55,869	57,731	57,731	55,869	57,731		
37	Monthly NYMEX Price	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411		
38	Total NYMEX Variable Cost	\$ 154,614	\$ 91,240	\$ 92,148	\$ 80,184	\$ 135,584	\$ 299,011	\$ 301,299	\$ 294,876	\$ 308,285	\$ 309,266	\$ 298,620	\$ 312,384		
39	Purchased Volumes	55,869	57,731	57,731	52,144	57,731	55,869	57,731	55,869	57,731	57,731	55,869	57,731	337,076	342,663
40	Monthly NYMEX Price	\$ 6,445	\$ 6,153	\$ 6,169	\$ 6,111	\$ 6,026	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 6,043	\$ 5,325
41	NYMEX Cost	\$ 360,072	\$ 355,235	\$ 356,143	\$ 318,632	\$ 347,890	\$ 299,011	\$ 301,299	\$ 294,876	\$ 308,285	\$ 309,266	\$ 298,620	\$ 312,384	\$ 2,036,983	\$ 1,824,731
42	NYMEX Basis Price														
43	NYMEX Basis Costs														
44	Total Purchase Price														
45	Total Purchase Cost														
46															
47	Transportation Fuel Losses and Variable Charges														
48	Tennessee Gas Pipeline (Contract 5292)														
49	Receipt Point: Niagara														
50	Delivery Point: Pleasant St. (Interconnection with Granite)														
51	Received Volume	33,637	34,758	34,758	31,394	34,758	33,637	34,758	33,637	34,758	34,758	33,637	34,758	202,941	206,305
52	Fuel Loss Rate	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%
53	Delivered Volume	33,270	34,379	34,379	31,052	34,379	33,270	34,379	33,270	34,379	34,379	33,270	34,379	200,729	204,056
54	Variable Transportation Rate	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772
55	Variable Transportation Costs	\$ 2,568	\$ 2,654	\$ 2,654	\$ 2,397	\$ 2,654	\$ 2,568	\$ 2,654	\$ 2,568	\$ 2,654	\$ 2,654	\$ 2,568	\$ 2,654	\$ 15,496	\$ 15,753
56															
57	Tennessee Gas Pipeline (Contract 39735)														
58	Receipt Point: Niagara														
59	Delivery Point: Pleasant St. (Interconnection with Granite)														
60	Received Volume	22,232	22,973	22,973	20,750	22,973	22,232	22,973	22,232	22,973	22,973	22,232	22,973	134,135	136,358
61	Fuel Loss Rate	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%
62	Delivered Volume	21,990	22,723	22,723	20,524	22,723	21,990	22,723	21,990	22,723	22,723	21,990	22,723	132,673	134,872
63	Variable Transportation Rate	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772
64	Variable Transportation Costs	\$ 1,698	\$ 1,754	\$ 1,754	\$ 1,584	\$ 1,754	\$ 1,698	\$ 1,754	\$ 1,698	\$ 1,754	\$ 1,754	\$ 1,698	\$ 1,754	\$ 10,242	\$ 10,412
65															
66	Granite State Gas Transmission (Contract 19-100-FT-NN)														
67	Receipt Point: Pleasant St.														
68	Delivery Point: Northern City Gates														
69	Received Volume	55,260	57,102	57,102	51,576	57,102	55,260	57,102	55,260	57,102	57,102	55,260	57,102	333,402	338,928
70	Fuel Loss Rate	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%
71	City Gate Delivered Volume	55,067	56,902	56,902	51,395	56,902	55,067	56,902	55,067	56,902	56,902	55,067	56,902	332,235	337,742
72	Variable Transportation Rate	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
73	Variable Transportation Costs	\$ 83	\$ 85	\$ 85	\$ 77	\$ 85	\$ 83	\$ 85	\$ 83	\$ 85	\$ 85	\$ 83	\$ 85	\$ 498	\$ 507

Source of Supply: Texas Eastern Zone M-3

Denotes Confidential Information			Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
Line	City Gate Delivered Costs	Reference														
1	Purchased Volumes	Line 9	349	385	385	348	385	-	-	-	-	-	-	-	1,851	-
2	City Gate Delivered Volume	Line 26	345	380	380	343	380	-	-	-	-	-	-	-	1,827	-
3	Total Purchase Cost	Line 15														
4	Variable Transportation Costs	Line 28														
5	Total City Gate Delivered Costs	Sum Lines 3 and 4	\$ 15	\$ 16	\$ 16	\$ 15	\$ 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78	\$ -
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	Texas Eastern Zone M-3 Purchases															
9	Purchased Volumes	Sendout Optimization	349	385	385	348	385	-	-	-	-	-	-	-	1,851	-
10	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7.901	\$ 8.035	\$ 8.115	\$ 7.818	\$ 6.705	\$ 5.352	\$ 5.219	\$ 5.278	\$ 5.340	\$ 5.357	\$ 5.345	\$ 5.411	\$ 7.709	-
11	NYMEX Cost	Line 9 times Line 10	\$ 2,755	\$ 3,092	\$ 3,123	\$ 2,717	\$ 2,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,267	\$ -
12	NYMEX Basis Price	Att FXW-10, Line 6 of Page 1														
13	NYMEX Basis Costs	Line 9 times Line 12														
14	Total Purchase Price	Line 10 plus Line 12														
15	Total Purchase Cost	Line 11 plus Line 13														
16																
17	Transportation Fuel Losses and Variable Charges															
18	Algonquin Pipeline (Contract 93201A1C)															
19	Receipt Point: Lamberville, NJ															
20	Delivery Point: Bay State City Gate (Delivered to Northern via Exchange Agreement)															
21	Total Contract Received Volume	Sendout Optimization	29,299	30,300	30,300	27,368	30,300	-	-	-	-	-	-	-	147,566	-
22	Received Volume	Line 14	349	385	385	348	385	-	-	-	-	-	-	-	1,851	-
23	Percentage Allocated	Line 22 divided by Line 21	1.19%	1.27%	1.27%	1.27%	1.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.25%	0.00%
24	Received Volume	Line 15	349	385	385	348	385	-	-	-	-	-	-	-	1,851	-
25	Fuel Loss Rate	Att FXW-10, Line 30 of Page 2	1.19%	1.27%	1.27%	1.27%	1.27%	-	-	-	-	-	-	-	1.25%	-
26	City Gate Delivered Volume	Line 24 times (1 - Line 25)	345	380	380	343	380	-	-	-	-	-	-	-	1,827	-
27	Variable Transportation Rate	Att FXW-10, Line 16 of Page 2	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0426	\$ -
28	Variable Transportation Costs	Line 26 times Line 27	\$ 15	\$ 16	\$ 16	\$ 15	\$ 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78	\$ -

Source of Supply: Transco Zone 6, non-NY

Denotes Confidential Information			Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	City Gate Delivered Costs	Reference														
1	Purchased Volumes	Line 9	8,683	8,980	8,980	8,111	8,980	-	-	-	-	-	-	-	43,734	-
2	City Gate Delivered Volume	Line 23	8,580	8,866	8,866	8,008	8,866	-	-	-	-	-	-	-	43,186	-
3	Total Purchase Cost	Line 15														
4	Variable Transportation Costs	Line 25	\$ 366	\$ 378	\$ 378	\$ 341	\$ 378	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,840	\$ -
5	Total City Gate Delivered Costs	Sum Lines 3 and 4														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	Tranco Zone 6, non-NY Purchases															
9	Purchased Volumes	Sendout Optimization	8,683	8,980	8,980	8,111	8,980	-	-	-	-	-	-	-	43,734	-
10	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 8,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 7,711	-
11	NYMEX Cost	Line 9 times Line 10	\$ 68,607	\$ 72,155	\$ 72,873	\$ 63,412	\$ 60,211	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 337,258	\$ -
12	NYMEX Basis Price	Att FXW-10, Line 5 of Page 1														
13	NYMEX Basis Costs	Line 9 times Line 12														
14	Total Purchase Price	Line 10 plus Line 12														
15	Total Purchase Cost	Line 11 plus Line 13														
16																
17	Transportation Fuel Losses and Variable Charges															
18	Algonquin Pipeline (Contract 93201A1C)															
19	Receipt Point: Centerville, NJ															
20	Delivery Point: Bay State City Gate (Delivered to Northern via Exchange Agreement)															
21	Received Volume	Line 15	8,683	8,980	8,980	8,111	8,980	-	-	-	-	-	-	-	43,734	-
22	Fuel Loss Rate	Att FXW-10, Line 30 of Page 2	1.19%	1.27%	1.27%	1.27%	1.27%	-	-	-	-	-	-	-	1.25%	-
23	City Gate Delivered Volume	Line 21 times (1 - Line 22)	8,580	8,866	8,866	8,008	8,866	-	-	-	-	-	-	-	43,186	-
24	Variable Transportation Rate	Att FXW-10, Line 16 of Page 2	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0426	\$ -
25	Variable Transportation Costs	Line 23 times Line 24	\$ 366	\$ 378	\$ 378	\$ 341	\$ 378	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,840	\$ -

Source of Supply: Tennessee Zone 0

Denotes Confidential Information

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	Purchased Volumes	Line 39	55,444	118,906	118,906	107,399	118,906	-	-	-	-	-	-	-	519,561	-
2	City Gate Delivered Volume	Line 62	52,316	112,198	112,198	101,340	112,198	-	-	-	-	-	-	-	490,250	-
3	Total Purchase Cost	Line 45														
4	Variable Transportation Costs	Sum Lines 55 and 64	\$ 15,933	\$ 34,171	\$ 34,171	\$ 30,864	\$ 34,171	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 149,311	\$ -
5	Total City Gate Delivered Costs	Sum Lines 4 and 5														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	Tennessee Zone 0 Supply Costs															
9	Block 1 Nov-Mar NYMEX Lock Volume		26,250	27,125	27,125	24,500	27,125									
10	Block 1 Nov-Mar NYMEX Lock Price		\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610									
11	Block 1 Nov-Mar NYMEX Lock Cost		\$ 226,013	\$ 233,546	\$ 233,546	\$ 210,945	\$ 233,546									
12	Block 1 Dec-Feb NYMEX Lock Volume			54,250	54,250	49,000										
13	Block 1 Dec-Feb NYMEX Lock Price			\$ 8,800	\$ 8,800	\$ 8,800										
14	Block 1 Dec-Feb NYMEX Lock Cost			\$ 477,400	\$ 477,400	\$ 431,200										
15	Block 2 Nov-Mar NYMEX Lock Volume		8,201	8,474	8,474	7,654	8,474									
16	Block 2 Nov-Mar NYMEX Lock Price		\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660									
17	Block 2 Nov-Mar NYMEX Lock Cost		\$ 46,415	\$ 47,962	\$ 47,962	\$ 43,321	\$ 47,962									
18	Block 2 Dec-Feb NYMEX Lock Volume			1,682	1,682	1,519										
19	Block 2 Dec-Feb NYMEX Lock Price			\$ 5,830	\$ 5,830	\$ 5,830										
20	Block 2 Dec-Feb NYMEX Lock Cost			\$ 9,805	\$ 9,805	\$ 8,856										
21	Block 3 Nov-Mar NYMEX Lock Volume															
22	Block 3 Nov-Mar NYMEX Lock Price															
23	Block 3 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -									
24	Block 3 Dec-Feb NYMEX Lock Volume															
25	Block 3 Dec-Feb NYMEX Lock Price															
26	Block 3 Dec-Feb NYMEX Lock Cost			\$ -	\$ -	\$ -										
27	Block 4 Nov-Mar NYMEX Lock Volume															
28	Block 4 Nov-Mar NYMEX Lock Price															
29	Block 4 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -									
30	Block 4 Dec-Feb NYMEX Lock Volume															
31	Block 4 Dec-Feb NYMEX Lock Price															
32	Block 4 Dec-Feb NYMEX Lock Cost			\$ -	\$ -	\$ -										
33	Total NYMEX Lock Volume		34,451	91,531	91,531	82,673	35,599									
34	Weighted Average NYMEX Lock Price		\$ 7,908	\$ 8,398	\$ 8,398	\$ 8,398	\$ 7,908									
35	Total NYMEX Lock Cost		\$ 272,427	\$ 768,713	\$ 768,713	\$ 694,321	\$ 281,508	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
36	NYMEX Variable Volume		20,994	27,375	27,375	24,726	83,307									
37	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411		
38	Total NYMEX Variable Cost		\$ 165,870	\$ 219,961	\$ 222,151	\$ 193,308	\$ 558,574	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
39	Purchased Volumes	Sendout Optimization	55,444	118,906	118,906	107,399	118,906								519,561	-
40	Average NYMEX Price	Line 41 divided by Line 39	\$ 7,905	\$ 8,315	\$ 8,333	\$ 8,265	\$ 7,065								\$ 7,979	
41	NYMEX Cost	Sum Lines 38 and 35	\$ 438,298	\$ 988,673	\$ 990,863	\$ 887,630	\$ 840,082	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,145,546	\$ -
42	NYMEX Basis Price	Att FXW-10, Line 1 of Page 1														
43	NYMEX Basis Costs	Line 39 times Line 42														
44	Total Purchase Price	Line 40 plus Line 42														
45	Total Purchase Cost	Line 41 plus Line 43														
46																
47	Transportation Fuel Losses and Variable Charges															
48	Tennessee Gas Pipeline (Contract 5083)															
49	Receipt Point: Tennessee Zone 0															
50	Delivery Point: Pleasant St. (Interconnection with Granite)															
51	Received Volume	Line 39	55,444	118,906	118,906	107,399	118,906	-	-	-	-	-	-	-	519,561	-
52	Fuel Loss Rate	Att FXW-10, Line 38 of Page 2	5.31%	5.31%	5.31%	5.31%	5.31%								5.31%	
53	Delivered Volume	Line 51 times (1 - Line 52)	52,500	112,592	112,592	101,696	112,592								491,972	
54	Variable Transportation Rate	Att FXW-10, Line 24 of Page 2	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020								\$ 0.3020	
55	Variable Transportation Costs	Line 53 times Line 54	\$ 15,855	\$ 34,003	\$ 34,003	\$ 30,712	\$ 34,003	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 148,576	\$ -
56																
57	Granite State Gas Transmission (Contract 19-100-FT-NN)															
58	Receipt Point: Pleasant St.															
59	Delivery Point: Northern City Gates															
60	Received Volume	Line 53	52,500	112,592	112,592	101,696	112,592								491,972	
61	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	#DIV/0!
62	City Gate Delivered Volume	Line 60 times (1 - Line 61)	52,316	112,198	112,198	101,340	112,198								490,250	
63	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	#DIV/0!
64	Variable Transportation Costs	Line 62 times Line 63	\$ 78	\$ 168	\$ 168	\$ 152	\$ 168	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 735	\$ -

Source of Supply: Tennessee Zone L

Denotes Confidential Information			Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
Line	City Gate Delivered Costs	Reference														
1	Purchased Volumes	Line 39	102,244	219,237	219,237	198,020	219,237	-	-	-	-	-	-	-	957,974	-
2	City Gate Delivered Volume	Line 62	97,159	208,332	208,332	188,171	208,332	-	-	-	-	-	-	-	910,327	-
3	Total Purchase Cost	Line 45														
4	Variable Transportation Costs	Sum Lines 55 and 64	\$ 25,827	\$ 55,380	\$ 55,380	\$ 50,021	\$ 55,380	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 241,988	\$ -
5	Total City Gate Delivered Costs	Sum Lines 4 and 5														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	Tennessee Zone L Supply Costs															
9	Block 1 Nov-Mar NYMEX Lock Volume		48,750	50,375	50,375	45,600	50,375									
10	Block 1 Nov-Mar NYMEX Lock Price		\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610							
11	Block 1 Nov-Mar NYMEX Lock Cost		\$ 419,738	\$ 433,729	\$ 433,729	\$ 391,755	\$ 433,729									
12	Block 1 Dec-Feb NYMEX Lock Volume			100,750	100,750	91,000										
13	Block 1 Dec-Feb NYMEX Lock Price			\$ 8,800	\$ 8,800	\$ 8,800										
14	Block 1 Dec-Feb NYMEX Lock Cost			\$ 886,600	\$ 886,600	\$ 800,800										
15	Block 2 Nov-Mar NYMEX Lock Volume		15,230	15,737	15,737	14,214	15,737									
16	Block 2 Nov-Mar NYMEX Lock Price		\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660							
17	Block 2 Nov-Mar NYMEX Lock Cost		\$ 86,199	\$ 89,072	\$ 89,072	\$ 80,452	\$ 89,072									
18	Block 2 Dec-Feb NYMEX Lock Volume			3,123	3,123	2,821										
19	Block 2 Dec-Feb NYMEX Lock Price			\$ 5,830	\$ 5,830	\$ 5,830										
20	Block 2 Dec-Feb NYMEX Lock Cost			\$ 18,209	\$ 18,209	\$ 16,446										
21	Block 3 Nov-Mar NYMEX Lock Volume															
22	Block 3 Nov-Mar NYMEX Lock Price															
23	Block 3 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -							
24	Block 3 Dec-Feb NYMEX Lock Volume															
25	Block 3 Dec-Feb NYMEX Lock Price															
26	Block 3 Dec-Feb NYMEX Lock Cost			\$ -	\$ -	\$ -										
27	Block 4 Nov-Mar NYMEX Lock Volume															
28	Block 4 Nov-Mar NYMEX Lock Price															
29	Block 4 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -							
30	Block 4 Dec-Feb NYMEX Lock Volume															
31	Block 4 Dec-Feb NYMEX Lock Price															
32	Block 4 Dec-Feb NYMEX Lock Cost															
33	Total NYMEX Lock Volume		63,980	169,985	169,985	153,535	66,112									
34	Weighted Average NYMEX Lock Price		\$ 7,908	\$ 8,398	\$ 8,398	\$ 8,398	\$ 7,908									
35	Total NYMEX Lock Cost		\$ 505,936	\$ 1,427,610	\$ 1,427,610	\$ 1,289,454	\$ 522,801	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
36	NYMEX Variable Volume		38,265	49,251	49,251	44,485	153,124									
37	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411		
38	Total NYMEX Variable Cost		\$ 302,329	\$ 395,733	\$ 399,673	\$ 347,783	\$ 1,026,699	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
39	Purchased Volumes	Sendout Optimization	102,244	219,237	219,237	198,020	219,237								957,974	-
40	Average NYMEX Price	Line 41 divided by Line 39	\$ 7,905	\$ 8,317	\$ 8,335	\$ 8,268	\$ 7,068								\$ 7,981	
41	NYMEX Cost	Sum Lines 38 and 35	\$ 808,265	\$ 1,823,343	\$ 1,827,283	\$ 1,637,237	\$ 1,549,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,645,828	\$ -
42	NYMEX Basis Price	Att FXW-10, Line 2 of Page 1														
43	NYMEX Basis Costs	Line 39 times Line 42														
44	Total Purchase Price	Line 40 plus Line 42														
45	Total Purchase Cost	Line 41 plus Line 43														
46																
47	Transportation Fuel Losses and Variable Charges															
48	Tennessee Gas Pipeline (Contract 5083)															
49	Receipt Point: Tennessee Zone L															
50	Delivery Point: Pleasant St. (Interconnection with Granite)															
51	Received Volume	Line 39	102,244	219,237	219,237	198,020	219,237	-	-	-	-	-	-	-	957,974	-
52	Fuel Loss Rate	Att FXW-10, Line 39 of Page 2	4.64%	4.64%	4.64%	4.64%	4.64%								4.64%	
53	Delivered Volume	Line 51 times (1 - Line 52)	97,500	209,064	209,064	188,832	209,064								913,524	
54	Variable Transportation Rate	Att FXW-10, Line 25 of Page 2	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634								\$ 0.2634	
55	Variable Transportation Costs	Line 53 times Line 54	\$ 25,882	\$ 55,067	\$ 55,067	\$ 49,738	\$ 55,067	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240,622	\$ -
56																
57	Granite State Gas Transmission (Contract 19-100-FT-NN)															
58	Receipt Point: Pleasant St.															
59	Delivery Point: Northern City Gates															
60	Received Volume	Line 53	97,500	209,064	209,064	188,832	209,064								913,524	
61	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	#DIV/0!
62	City Gate Delivered Volume	Line 60 times (1 - Line 61)	97,159	208,332	208,332	188,171	208,332								910,327	
63	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	#DIV/0!
64	Variable Transportation Costs	Line 62 times Line 63	\$ 146	\$ 312	\$ 312	\$ 282	\$ 312	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,365	\$ -

Source of Supply: Atlantic Bridge Ramapo Pipeline Path

Denotes Confidential Information

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	Purchased Volumes	Line 39	186,603	195,807	195,807	176,858	195,807	187,055	193,291	187,055	193,291	193,291	187,055	193,291	1,137,937	1,147,273
2	City Gate Delivered Volume	Line 62	177,480	183,396	183,396	165,648	183,396	177,480	183,396	177,480	183,396	183,396	177,480	183,396	1,070,796	1,088,544
3	Total Purchase Cost	Line 45														
4	Variable Transportation Costs	Sum Lines 55 and 64	\$ 5,934	\$ 6,132	\$ 6,132	\$ 5,539	\$ 6,132	\$ 5,948	\$ 6,146	\$ 5,948	\$ 6,146	\$ 6,146	\$ 5,948	\$ 6,146	\$ 35,817	\$ 36,481
5	Total City Gate Delivered Costs	Sum Lines 4 and 5														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	Ramapo Supply Purchases															
9	Block 1 Nov-Mar NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Block 1 Nov-Mar NYMEX Lock Price		\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610
11	Block 1 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	Block 1 Dec-Feb NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Block 1 Dec-Feb NYMEX Lock Price			\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800
14	Block 1 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	Block 2 Nov-Mar NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Block 2 Nov-Mar NYMEX Lock Price		\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660
17	Block 2 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
18	Block 2 Dec-Feb NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Block 2 Dec-Feb NYMEX Lock Price			\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830
20	Block 2 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
21	Block 3 Nov-Mar NYMEX Lock Volume		-	77,004	77,004	69,552	-	-	-	-	-	-	-	-	-	-
22	Block 3 Nov-Mar NYMEX Lock Price		\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460
23	Block 3 Nov-Mar NYMEX Lock Cost		\$ -	\$ 574,450	\$ 574,450	\$ 518,858	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
24	Block 3 Dec-Feb NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Block 3 Dec-Feb NYMEX Lock Price			\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460
26	Block 3 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	Block 4 Nov-Mar NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Block 4 Nov-Mar NYMEX Lock Price															
29	Block 4 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	Block 4 Dec-Feb NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Block 4 Dec-Feb NYMEX Lock Price															
32	Block 4 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
33	Total NYMEX Lock Volume		-	77,004	77,004	69,552	-	-	-	-	-	-	-	-	-	-
34	Weighted Average NYMEX Lock Price			\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460
35	Total NYMEX Lock Cost		\$ -	\$ 574,450	\$ 574,450	\$ 518,858	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
36	NYMEX Variable Volume		186,603	118,803	118,803	107,306	195,807	187,055	193,291	187,055	193,291	193,291	187,055	193,291	1,137,937	1,147,273
37	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 5,411	\$ 5,411
38	Total NYMEX Variable Cost		\$ 1,474,352	\$ 954,580	\$ 964,084	\$ 838,916	\$ 1,312,884	\$ 1,001,121	\$ 1,008,784	\$ 987,279	\$ 1,032,172	\$ 1,035,458	\$ 999,811	\$ 1,045,896	\$ 1,045,896	\$ 1,045,896
39	Purchased Volumes	Sendout Optimization	186,603	195,807	195,807	176,858	195,807	187,055	193,291	187,055	193,291	193,291	187,055	193,291	1,137,937	1,147,273
40	Monthly NYMEX Price	Line 41 divided by Line 39	\$ 7,901	\$ 7,809	\$ 7,857	\$ 7,677	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 5,411	\$ 5,411
41	NYMEX Cost	Sum Lines 38 and 35	\$ 1,474,352	\$ 1,529,030	\$ 1,538,534	\$ 1,357,774	\$ 1,312,884	\$ 1,001,121	\$ 1,008,784	\$ 987,279	\$ 1,032,172	\$ 1,035,458	\$ 999,811	\$ 1,045,896	\$ 8,213,694	\$ 6,109,399
42	NYMEX Basis Price	Att FXW-10, Line 13 of Page 1														
43	NYMEX Basis Costs	Line 39 times Line 42														
44	Total Purchase Price	Line 40 plus Line 42														
45	Total Purchase Cost	Line 41 plus Line 43														
46																
47	Transportation Fuel Losses and Variable Charges															
48	Algonquin Pipeline (Contract 510939)															
49	Receipt Point: Ramapo, NJ															
50	Delivery Point: Beverly															
51	Received Volume	Line 39	186,603	195,807	195,807	176,858	195,807	187,055	193,291	187,055	193,291	193,291	187,055	193,291	1,137,937	1,147,273
52	Fuel Loss Rate	Att FXW-10, Line 31 of Page 2	4.18%	5.64%	5.64%	5.64%	5.64%	4.18%	4.18%	4.18%	4.18%	4.18%	4.18%	4.18%	5.16%	4.18%
53	Delivered Volume	Line 51 times (1 - Line 52)	178,803	184,763	184,763	166,883	184,763	179,237	185,211	179,237	185,211	185,211	179,237	185,211	1,079,212	1,099,317
54	Variable Transportation Rate	Att FXW-10, Line 17 of Page 2	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317
55	Variable Transportation Costs	Line 53 times Line 54	\$ 5,668	\$ 5,857	\$ 5,857	\$ 5,290	\$ 5,857	\$ 5,682	\$ 5,871	\$ 5,682	\$ 5,871	\$ 5,871	\$ 5,682	\$ 5,871	\$ 34,211	\$ 34,848
56																
57	Maritimes Pipeline (Contract 210363)															
58	Receipt Point: Beverly															
59	Delivery Point: Lewiston City-Gate															
60	Received Volume	Line 45	178,803	184,763	184,763	166,883	184,763	179,237	185,211	179,237	185,211	185,211	179,237	185,211	1,079,212	1,099,317
61	Fuel Loss Rate	Att FXW-10, Line 34 of Page 2	0.74%	0.74%	0.74%	0.74%	0.74%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.78%	0.98%
62	City Gate Delivered Volume	Line 60 times (1 - Line 61)	177,480	183,396	183,396	165,648	183,396	177,480	183,396	177,480	183,396	183,396	177,480	183,396	1,070,796	1,088,544
63	Variable Transportation Rate	Att FXW-10, Line 20 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
64	Variable Transportation Costs	Line 62 times Line 63	\$ 266	\$ 275	\$ 275	\$ 248	\$ 275	\$ 266	\$ 275	\$ 266	\$ 275	\$ 275	\$ 266	\$ 275	\$ 1,606	\$ 1,633

Source of Supply: Dawn Hub Supply (Union Dawn Storage, PXP and WXP Dawn Hub Paths)

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Table with columns: Line, City Gate Delivered Costs, Reference, Nov-22, Dec-22, Jan-23, Feb-23, Mar-23, Apr-23, May-23, Jun-23, Jul-23, Aug-23, Sep-23, Oct-23, 2022-2023 Winner, 2023 Summer. Rows include various supply contracts like Dawn Hub Supply Costs, TransCanada Pipeline, and PNGTS Pipeline.

Source of Supply: Tennessee Storage

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
2	Gross Withdrawn Volume	Line 10	65,811	68,004	67,547	9,860	-	-	-	-	-	-	-	-	211,222	-
3	City Gate Delivered Volume	Line 38	64,603	66,757	66,308	9,679	-	-	-	-	-	-	-	-	207,347	-
4	Total Withdrawal Costs	Line 18	\$ 429,197	\$ 443,503	\$ 440,522	\$ 64,304	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,377,527	\$ -
5	Variable Transportation Costs	Sum Lines 31 and 40	\$ 6,703	\$ 6,927	\$ 6,860	\$ 1,004	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,514	\$ -
6	Total City Gate Delivered Costs	Line 3 plus Line 4	\$ 435,900	\$ 450,430	\$ 447,402	\$ 65,308	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,399,040	\$ -
7	Average Delivered Price	Line 5 divided by Line 2	\$ 6.747	\$ 6.747	\$ 6.747	\$ 6.747									\$ 6.747	
8																
9	<u>Tennessee Storage Withdrawals</u>															
10	Gross Withdrawn Volume	Sendout Optimization	65,811	68,004	67,547	9,860	-	-	-	-	-	-	-	-	211,222	-
11	Withdrawal Rate	FXW-10, Line 1 of Page 3	\$ 0.0087	\$ 0.0087	\$ 0.0087	\$ 0.0087									\$ 0.0087	
12	Withdrawal Charges	Line 9 times Line 10	\$ 573	\$ 592	\$ 588	\$ 86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,838	\$ -
13	Inventory Rate	FXW-12	\$ 6.5130	\$ 6.5130	\$ 6.5130	\$ 6.5130									\$ 6.5130	
14	Withdrawn Inventory Value	Line 9 times Line 12	\$ 428,624	\$ 442,912	\$ 439,935	\$ 64,218	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,375,689	\$ -
15	Withdrawal Fuel Rate	FXW-10, Line 2 of Page 3	0.00%	0.00%	0.00%	0.00%									0.00%	
16	Withdrawal Fuel Losses	FXW-10, Line 1 of Page 3 times Line 9	-	-	-	-									-	
17	Net Withdrawn Volume	Line 9 minus Line 14	65,811	68,004	67,547	9,860	-	-	-	-	-	-	-	-	211,222	-
18	Total Withdrawal Costs	Line 11 plus Line 13	\$ 429,197	\$ 443,503	\$ 440,522	\$ 64,304	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,377,527	\$ -
19																
20	<u>Transportation Fuel Losses and Variable Charges</u>															
21	Tennessee Gas Pipeline (Contract 5265)															
22	Receipt Point: Tennessee FS-MA Withdrawal Meter															
23	Delivery Point: Pleasant St. (Interconnection with Granite)															
24	Total Contract Received Volume	Sendout Optimization	65,811	68,004	68,004	61,423	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	397,057	403,638
25	Received Volume	Line 17	65,811	68,004	67,547	9,860	-	-	-	-	-	-	-	-	211,222	-
26	Percentage Allocated	Line 25 divided by Line 24	100.00%	100.00%	99.33%	16.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	53.20%	0.00%
27	Received Volume	Line 25	65,811	68,004	67,547	9,860	-	-	-	-	-	-	-	-	211,222	-
28	Fuel Loss Rate	Att FXW-10, Line 40 of Page 2	1.49%	1.49%	1.49%	1.49%									1.49%	
29	Delivered Volume	Line 27 times (1 - Line 28)	64,830	66,991	66,541	9,713	-	-	-	-	-	-	-	-	208,075	-
30	Variable Transportation Rate	Att FXW-10, Line 26 of Page 2	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019									\$ 0.1019	
31	Variable Transportation Costs	Line 29 times Line 30	\$ 6,606	\$ 6,826	\$ 6,781	\$ 990	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,203	\$ -
32																
33	Granite State Gas Transmission (Contract 19-100-FT-NN)															
34	Receipt Point: Pleasant St.															
35	Delivery Point: Northern City Gates															
36	Received Volume	Line 29	64,830	66,991	66,541	9,713	-	-	-	-	-	-	-	-	208,075	-
37	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	#DIV/0!
38	City Gate Delivered Volume	Line 36 times (1 - Line 37)	64,603	66,757	66,308	9,679	-	-	-	-	-	-	-	-	207,347	-
39	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	#DIV/0!
40	Variable Transportation Costs	Line 38 times Line 39	\$ 97	\$ 100	\$ 99	\$ 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 311	\$ -

Source of Supply: Northern LNG Inventory
 On-System Storage

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Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer	
1	Gross Withdrawn Volume	Line 9	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260	11,040	
2	Net Withdrawn Volume	Line 15	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260	11,040	
3	Total Withdrawal Costs	Line 16															
4	Variable Transportation Costs	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
5	Total City Gate Delivered Costs	Line 3 plus Line 4															
6	Average Delivered Price	Line 5 divided by Line 2															
7																	
8	Northern LNG Withdrawn Inventory																
9	Gross Withdrawn Volume	Sendout Optimization	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260	11,040	
10	Withdrawal Rate	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
11	Withdrawal Charges	Line 9 times Line 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
12	Inventory Rate	FXW-12															
13	Withdrawn Inventory Value	Line 9 times Line 12															
14	Withdrawal Fuel Losses	N/A															
15	Net Withdrawn Volume	Line 9 minus Line 14	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260	11,040	
16	Total Withdrawal Costs	Line 11 plus Line 13															

Source of Supply: Peaking Contract 1

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Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	Purchased Volumes	Line 9	-	2,133	160,309	5,766	-	-	-	-	-	-	-	-	168,207	-
2	City Gate Delivered Volume	Sum Lines 21 and 24	-	2,133	160,283	5,766	-	-	-	-	-	-	-	-	168,181	-
3	Total Purchase Cost	Line 15														
4	Variable Transportation Costs	Line 26														
5	Total City Gate Delivered Costs	Sum Lines 3 and 4														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	<u>Peaking Contract 1 Costs</u>															
9	Purchased Volumes	Sendout Optimization	-	2,133	160,309	5,766	-	-	-	-	-	-	-	-	168,207	-
10	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7.901	\$ 8.035	\$ 8.115	\$ 7.818	\$ 6.705	\$ 5.352	\$ 5.219	\$ 5.278	\$ 5.340	\$ 5.357	\$ 5.345	\$ 5.411	\$ 8.104	-
11	NYMEX Cost	Line 9 times Line 10	\$ -	\$ 17,138	\$ 1,300,904	\$ 45,076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,363,118	\$ -
12	NYMEX Basis Price	Att FXW-10, Line 16 of Page 1														
13	NYMEX Basis Costs	Line 9 times Line 12														
14	Total Purchase Price	Line 10 plus Line 12														
15	Total Purchase Cost	Line 11 plus Line 13														
16																
17	<u>Transportation Fuel Losses and Variable Charges</u>															
18	Granite State Gas Transmission (Contract 19-100-FT-NN)															
19	Receipt Point: Westbrook															
20	Delivery Point: Northern City Gates															
21	City Gate Delivered Volume	Lewiston City-Gate - Non-GSGT	-	2,133	152,957	5,766	-	-	-	-	-	-	-	-	-	-
22	Received Volume	Line 9	-	-	7,351	-	-	-	-	-	-	-	-	-	7,351	-
23	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	#DIV/0!
24	City Gate Delivered Volume	Line 22 times (1 - Line 23)	-	-	7,326	-	-	-	-	-	-	-	-	-	7,326	-
25	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	#DIV/0!
26	Variable Transportation Costs	Line 24 times Line 25	\$ -	\$ -	\$ 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11	\$ -

Source of Supply: Peaking Contract 2

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Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	Purchased Volumes	Line 9	-	10,735	30,735	18,530	-	-	-	-	-	-	-	-	60,000	-
2	City Gate Delivered Volume	Sum Lines 16 and 19	-	10,735	30,730	18,530	-	-	-	-	-	-	-	-	59,995	-
3	Total Purchase Cost	Line 11														
4	Variable Transportation Costs	Line 21	\$	- \$	- \$	2 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	2 \$
5	Total City Gate Delivered Costs	Sum Lines 3 and 4														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	Maritimes Supply Costs															
9	Purchased Volumes	Sendout Optimization	-	10,735	30,735	18,530	-	-	-	-	-	-	-	-	60,000	-
10	Total Purchase Price	Line 10 plus Line 12														
11	Total Purchase Cost	Line 11 plus Line 13														
12																
13	Granite State Gas Transmission (Contract 19-100-FT-NN)															
14	Receipt Point: Westbrook, Newington, Eliot															
15	Delivery Point: Northern City Gates															
16	City Gate Delivered Volume	Lewiston City-Gate - Non-GSGT	-	10,735	29,326	18,530	-	-	-	-	-	-	-	-	-	-
17	Received Volume	Line 8	-	-	1,409	-	-	-	-	-	-	-	-	-	1,409	-
18	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	#DIV/0!
19	City Gate Delivered Volume	Line 17 times (1 - Line 18)	-	-	1,404	-	-	-	-	-	-	-	-	-	1,404	-
20	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	#DIV/0!
21	Variable Transportation Costs	Line 19 times Line 20	\$	- \$	- \$	2 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	2 \$

REDACTED

Northern Utilities, Inc.
Natural Gas Commodity Price Forecast

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Estimated Adders to NYMEX Last Day Settlement - Based on July 26, 2022 ICE Settlement Prices

Line	Supply Source	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
1	Tennessee Zone 0												
2	Tennessee Zone L												
3	Tennessee Niagara												
4	Iroquois Receipts												
5	Transco Zone 6, non-NY												
6	Texas Eastern Zone M-3												
7	Leidy Hub												
8	Tennessee Zone 4 Station 313 Pool												
9	Tennessee Zone 4 Storage Injection												
10	Union Dawn Storage - Dawn Supply												
11	Union Dawn Storage Injection												
12	LNG Contract												
13	Atlantic Bridge - Ramapo												
14	PXP - Dawn Supply												
15	Incremental Supply												
16	Peaking Contract 1												
17	WXP - Dawn Supply												

Estimated NYMEX Last Day Settlement - Based on September 7, 2022 NYMEX Natural Gas Settlement

19	NYMEX	\$ 7.901	\$ 8.035	\$ 8.115	\$ 7.818	\$ 6.705	\$ 5.352	\$ 5.219	\$ 5.278	\$ 5.340	\$ 5.357	\$ 5.345	\$ 5.411
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Fixed Price Contracts

21 Peaking Contract 2

Northern Utilities, Inc.
Transportation Contract Rates
November 2022 through October 2023
Fixed Demand Rates (\$ per Dth/Month)

Line	Pipeline	Rate Schedule	Receipt	Delivery	Reference	Fixed Demand Rates (\$ per Dth/Month)											
						Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
1	Algonquin	AFT-1	N/A	N/A	AGT-1	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927
2	Algonquin	AFT-1 (AB)	N/A	N/A	AGT-4	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170
3	Granite	FT-NN	N/A	N/A	GSGT-1	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563
4	Iroquois	RTS-1	Zone 1	Zone 1	IGTS-1	\$ 4.9427	\$ 4.9427	\$ 4.9427	\$ 4.9427	\$ 4.9427	\$ 5.2357	\$ 5.2357	\$ 5.2357	\$ 5.2357	\$ 5.2357	\$ 4.6690	\$ 4.6690
5	Maritimes	MN365	N/A	N/A	MNUS-1	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833
6	PNGTS	FT (C2C)	N/A	N/A	PNGTS-1	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500
7	PNGTS	FT (PXP)	N/A	N/A	PNGTS-3	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543
8	PNGTS	FT (WXP)	N/A	N/A	PNGTS-9	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417
9	Tennessee	FT-A	Zone 0	Zone 6	TGP-1 (PCB & PS/GHG), TGP-5 (2022 Rates)	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995
10	Tennessee	FT-A	Zone L	Zone 6	TGP-1 (PCB & PS/GHG), TGP-5 (2022 Rates)	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901
11	Tennessee	FT-A	Zone 4	Zone 6	TGP-1 (PCB & PS/GHG), TGP-5 (2022 Rates)	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332
12	Tennessee	FT-A	Zone 5	Zone 6	TGP-1 (PCB & PS/GHG), TGP-5 (2022 Rates)	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936
13	Texas Eastern	FT-1/FTS	M3	M3	TETCO-1	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140
14	TransCanada	FT	Parkway	E. Hereford	CAD-1	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815
15	Union	M12	Dawn	Parkway	CAD-1	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832

Variable Transportation Commodity Rates (\$/Dth)

Line	Pipeline	Rate Schedule	Receipt	Delivery	Reference	Variable Transportation Commodity Rates (\$/Dth)											
						Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
16	Algonquin	AFT-1	N/A	N/A	AGT-1 (Max Commodity, Surcharge), FERC-1 (ACA)	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426
17	Algonquin	AFT-1 (AB)	N/A	N/A	AGT-1 (Surcharge), FERC-1 (ACA), See Note 1.	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317
18	Granite	FT-NN	N/A	N/A	GSGT-1 (Commodity), FERC-1 (ACA)	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
19	Iroquois	RTS-1	Zone 1	Zone 1	IGTS-1 (Commodity), FERC-1 (ACA)	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049
20	Maritimes	MN365	N/A	N/A	MNUS-1 (Commodity), FERC-1 (ACA)	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
21	PNGTS	FT (C2C)	N/A	N/A	FERC-1 (ACA)	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
22	PNGTS	FT (PXP)	N/A	N/A	PNGTS-7 (PXP Commodity), FERC-1 (ACA)	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106
23	PNGTS	FT (WXP)	N/A	N/A	FERC-1 (ACA)	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
24	Tennessee	FT-A	Zone 0	Zone 6	TGP-2 (PS/GHG), TGP-3 (EPCR), TGP-5, FERC-1	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020
25	Tennessee	FT-A	Zone L	Zone 6	TGP-2 (PS/GHG), TGP-3 (EPCR), TGP-5, FERC-1	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634
26	Tennessee	FT-A	Zone 4	Zone 6	TGP-2 (PS/GHG), TGP-3 (EPCR), TGP-5, FERC-1	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019
27	Tennessee	FT-A	Zone 5	Zone 6	TGP-2 (PS/GHG), TGP-3 (EPCR), TGP-5, FERC-1	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772
28	Texas Eastern	FT-1/FTS	M3	M3	TETCO-1, FERC-1 (ACA)	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769
29	Union	M12	Dawn	Parkway	CAD-1	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032

Transportation Fuel Rates (Percentage)

Line	Pipeline	Rate Schedule	Receipt	Delivery	Reference	Transportation Fuel Rates (Percentage)											
						Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
30	Algonquin	AFT-1	N/A	N/A	AGT-2	1.19%	1.27%	1.27%	1.27%	1.27%	1.19%	1.19%	1.19%	1.19%	1.19%	1.19%	1.19%
31	Algonquin	AFT-1 (AB)	N/A	N/A	AGT-2	4.18%	5.64%	5.64%	5.64%	5.64%	4.18%	4.18%	4.18%	4.18%	4.18%	4.18%	4.18%
32	Granite	FT-NN	N/A	N/A	GSGT-1	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%
33	Iroquois	RTS-1	Zone 1	Zone 1	IGTS-3	0.30%	0.30%	0.30%	0.30%	0.30%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
34	Maritimes	MN365	N/A	N/A	MNUS-3	0.74%	0.74%	0.74%	0.74%	0.74%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%
35	PNGTS	FT (C2C)	N/A	N/A	PNGTS-5 (Measurement Variance)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
36	PNGTS	FT (PXP)	N/A	N/A	PNGTS-5 (Measurement Variance), PNGTS-6 (PXP Fuel)	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%
37	PNGTS	FT (WXP)	N/A	N/A	PNGTS-5 (Measurement Variance), PNGTS-11 (WXP Fuel)	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%
38	Tennessee	FT-A	Zone 0	Zone 6	TGP-3	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%
39	Tennessee	FT-A	Zone L	Zone 6	TGP-3	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%
40	Tennessee	FT-A	Zone 4	Zone 6	TGP-3	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%
41	Tennessee	FT-A	Zone 5	Zone 6	TGP-3	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%
42	Texas Eastern	FT-1/FTS	M3	M3	TETLP-3,4&5	0.53%	1.36%	1.36%	1.36%	0.89%	0.53%	0.53%	0.53%	0.53%	0.53%	0.53%	0.53%
43	TransCanada	FT	Parkway	E. Hereford	CAD-6	1.54%	1.54%	1.54%	1.54%	1.54%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%
44	Union	M12	Dawn	Parkway	CAD-7	1.10%	1.10%	1.10%	1.10%	1.10%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%

Northern Utilities, Inc.
Underground Storage Contract Rates
November 2022 through October 2023

Line	Storage	Rate Schedule	Notes	Reference	Space Rate	Demand Rate	Withdrawal Rate	Withdrawal Fuel Loss	Injection Rate	Injection Fuel Loss
1	Tennessee	FS-MA		TGP-5 (2022 TGP Settlement Rates), TGP-4 (Inj Fuel)	\$ 0.0173	\$ 1.2655	\$ 0.0087	0.00%	\$ 0.0087	1.62%
2	Union	Storage	1	CAD-8	\$ 0.0592	\$ -	\$ 0.0057	0.60%	\$ 0.0057	0.60%

Note 1 The demand charge for Union Storage shall be \$236,666.67 per month divided by Maximum Storage Balance of 4,000,000 Dth.
The Withdrawal Rate and Injection Rate are equal to contractual variable rate converted from \$CAD/GJ to \$USD/Dth. Calculations are on CAD-1.

ALGONQUIN GAS TRANSMISSION, LLC

SUMMARY OF RATES

Effective Rates 12/01/2021

RATE SCHEDULE AFT-1

	Commodity			Authorized Overrun		Capacity Release	System Balancing Surcharge (Credit) Rate		
	Reservation	Max	Min	Max	Min	Vol Res	Non Beverly	Beverly	
(F-1/WS-1)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
(F-2/F-3)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
(F-4)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
(STB/SS-3)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
(FTP)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
(PSS-T)	\$ 8.5626	\$0.0000	\$0.0000	\$0.2815	\$0.0000	\$0.2815		\$0.0369	\$0.0258
(AFT-2)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
(AFT-3)	\$ 8.7363	\$0.0000	\$0.0000	\$0.2872	\$0.0000	\$0.2872		\$0.0369	\$0.0258
(AFT-5)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
(ITP)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
(X-35)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
(X-39)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
Tiverton	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
Incremental									
Hubline	\$ 9.4048	\$0.0042	\$0.0042	\$0.3134	\$0.0042	\$0.3092		\$0.0369	\$0.0258*
Secondary Surcharge 1/		\$0.0267	\$0.0000				\$0.0369	\$0.0258	
Ramapo	\$ 8.7496	\$0.0126	\$0.0126	\$0.3003	\$0.0126	\$0.2877		\$0.0219	\$0.0153
AIM	\$33.3680	\$0.0155	\$0.0155	\$1.1125	\$0.0155	\$1.0970		\$0.0238	\$0.0167
Atlantic Br.	\$55.6932	\$0.0115	\$0.0115	\$1.8425	\$0.0115	\$1.8310		\$0.0302	\$0.0211

*For Deliveries off of Hubline Facilities

RATE SCHEDULE AFT-1S

	Commodity			Authorized Overrun		Capacity Release	System Balancing Surcharge (Credit) Rate		
	Reservation	Max	Min	Max	Min	Vol Res	Non Beverly	Beverly	
(F-1/WS-1)	\$ 3.4371	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.1130		\$0.0369	\$0.0258
(F-2/F-3)	\$ 3.4371	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.1130		\$0.0369	\$0.0258
(F-4)	\$ 3.4371	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.1130		\$0.0369	\$0.0258
(STB/SS-3)	\$ 3.4371	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.1130		\$0.0369	\$0.0258
(Hubline) 2/		\$0.0267	\$0.0000				\$0.0369	\$0.0258*	

*For Deliveries off of Hubline Facilities

OTHER FIRM RATE SCHEDULES

	Commodity			Authorized Overrun		Capacity Release	System Balancing Surcharge (Credit) Rate		
	Reservation	Max	Min	Max	Min	Vol Res	Non Beverly	Beverly	
AFT-E	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
(Hubline) 2/		\$0.0267	\$0.0000				\$0.0369	\$0.0258*	
AFT-ES	\$ 3.4371	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.1130		\$0.0369	\$0.0258
(Hubline) 2/		\$0.0267	\$0.0000				\$0.0369	\$0.0258*	
T-1	\$ 1.6687	\$0.0042		\$0.0591				\$0.0369	\$0.0258
AFT-4	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825		\$0.0369	\$0.0258
AFT-CL:									
Canal	\$ 0.5111	\$0.0000	\$0.0000	\$0.0168	\$0.0000	\$0.0168			
Middletown	\$ 0.7872	\$0.0000	\$0.0000	\$0.0259	\$0.0000	\$0.0259			
Cleary	\$ 0.3758	\$0.0000	\$0.0000	\$0.0124	\$0.0000	\$0.0124			
Lake Road	\$ 0.2224	\$0.0000	\$0.0000	\$0.0073	\$0.0000	\$0.0073			
Manchester	\$ 1.6789	\$0.0000	\$0.0000	\$0.0552	\$0.0000	\$0.0552			
Bellingham	\$ 0.3715	\$0.0000	\$0.0000	\$0.0122	\$0.0000	\$0.0122			
Phelps Dodge	\$ 0.0000	\$0.0166	\$0.0000	\$0.0166	\$0.0000	\$0.0000			
Cape Cod	\$ 3.3204	\$0.0000	\$0.0000	\$0.1092	\$0.0000	\$0.1092			
Northeast Gateway	\$ 2.4859	\$0.0000	\$0.0000	\$0.0817	\$0.0000	\$0.0817			
J-2 Facility	\$ 2.3731	\$0.0000	\$0.0000	\$0.0780	\$0.0000	\$0.0780			
Kleen Energy	\$ 0.8035	\$0.0000	\$0.0000	\$0.0264	\$0.0000	\$0.0264			
Salem	\$ 7.3635	\$0.0000	\$0.0000	\$0.2421	\$0.0000	\$0.2421			
West Roxbury	\$15.5204	\$0.0000	\$0.0000	\$0.5103	\$0.0000	\$0.5103			
X-33	\$ 2.7241	\$0.0000		\$0.0896			\$0.0369	\$0.0258	

*For Deliveries off of Hubline Facilities

	Commodity		Authorized Overrun		System Balancing Surcharge (Credit) Rate	
	Max	Min	Max	Min	Non Beverly	Beverly
AIT-1	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.0369	\$0.0258
(Hubline 2/)	\$0.0267	\$0.0000			\$0.0369	\$0.0258*
AIT-2						
Manchester	\$0.0552	\$0.0000	\$0.0552	\$0.0000		
Canal	\$0.0168	\$0.0000	\$0.0168	\$0.0000		
Cape Cod	\$0.1092	\$0.0000	\$0.1092	\$0.0000		
Northeast Gateway	\$0.0817	\$0.0000	\$0.0817	\$0.0000		
J-2 Facility	\$0.0780	\$0.0000	\$0.0780	\$0.0000		
Kleen Energy	\$0.0264	\$0.0000	\$0.0264	\$0.0000		
Salem	\$0.2421	\$0.0000	\$0.2421	\$0.0000		
West Roxbury	\$0.5103	\$0.0000	\$0.5103	\$0.0000		
PAL	\$0.2867	\$0.0000	\$0.0000	\$0.0000	\$0.0369	\$0.0258

TITLE TRANSFER TRACKING SERVICE

	Max	Min
TTT	\$5.3900	\$0.0000

Rates are per MMBTU. Rate excludes the Annual Charge Adjustment (ACA) Surcharge. The ACA Commodity Surcharge to applicable customers, pursuant to Section 34 of the General Terms and Conditions.

FUEL REIMBURSEMENT PERCENTAGES

Period	Duration	FRP
<u>System Services 1/</u>		
Winter	Dec 1 - Mar 31	1.27%
Spring, Summer and Fall	Apr 1 - Nov 30	1.19%
<u>Incremental Ramapo Service 1/</u>		
Winter	Dec 1 - Mar 31	1.31%
Spring, Summer and Fall	Apr 1 - Nov 30	0.77%
<u>Incremental AIM Service 1/</u>		
Winter	Dec 1 - Mar 31	3.38%
Spring, Summer and Fall	Apr 1 - Nov 30	2.37%
<u>Incremental Atlantic Bridge Service 1/</u>		
Winter	Dec 1 - Mar 31	5.64%
Spring, Summer and Fall	Apr 1 - Nov 30	4.18%

1/ For all receipt points other than Beverly, Meter No. 00215

System Services - Beverly Receipts/Non-Hubline Deliveries

Winter	Dec 1 - Mar 31	0.83%
Spring, Summer and Fall	Apr 1 - Nov 30	0.96%

Incremental Ramapo Service - Beverly Receipts/Non-Hubline Deliveries

Winter	Dec 1 - Mar 31	0.85%
Spring, Summer and Fall	Apr 1 - Nov 30	0.00%

Incremental AIM Service - Beverly Receipts/Non-Hubline Deliveries

Winter	Dec 1 - Mar 31	2.38%
Spring, Summer and Fall	Apr 1 - Nov 30	0.00%

Incremental Atlantic Bridge Service - Beverly Receipts/Non-Hubline Deliveries

Winter	Dec 1 - Mar 31	0.00%
Spring, Summer and Fall	Apr 1 - Nov 30	2.72%

2/ Hubline Surcharge applicable to all customers utilizing secondary receipt points between and including Beverly and Weymouth and/or utilizing secondary delivery points between Beverly and Weymouth,including Beverly and excluding Weymouth,and in addition to other applicable charges.

The Summary of Rates serves as a handy reference and does not replace Algonquin's Tariff. The rates are subject to commission approval.

STATEMENT OF NEGOTIATED RATES 1/2/3/4/5/9/

Customer Name: Northern Utilities, Inc. d/b/a Unitil

Service Agreement: 510939

Term of Negotiated Rate: The term of this negotiated rate commences on the Service Commencement Date (as defined in the Precedent Agreement between Pipeline and Customer) of Contract No. 510939 and continues for the Primary Term (as such term is defined in the Precedent Agreement and Contract No. 510939). In the event Customer exercises its one-time option to extend the Primary Term of Contract No. 510939 for up to 100% of the MDTQ, then (a) Pipeline and Customer will amend the Negotiated Rate to reflect the extension of the term of the Negotiated Rate for an additional (i) five (5) years at a new negotiated reservation rate equal to \$45.124 per Dth per month or (ii) ten (10) years at a new negotiated reservation rate equal to \$43.375 per Dth per month for the elected volume, or (b) if Customer elects to extend the Primary Term of Contract No. 510939 at the then-effective maximum recourse reservation rate, then the term of the Negotiated Rate will expire at the end of the Primary Term. 10/11/

Rate Schedule: AFT-1 [Atlantic Bridge Project]

MDTQ: 7,599 Dth/d

Reservation Rate: Customer shall pay a negotiated reservation rate of \$54.917 per Dth, per month of Customer's MDTQ under Contract No. 510939 during the Primary Term thereof. 3/6/8/

Commodity Charge and Other Charges: 7/

Primary Receipt Point: 4/

Mahwah (Meter No. 00201) – 7,599 Dth/d
Ramapo (Meter No. 00214) – 7,599 Dth/d

Primary Delivery Point: 4/

Beverly (Meter No. 01215) – 7,599 Dth/d

Recourse Rate(s): The Recourse Rate(s) applicable to this service is the applicable maximum rate(s) stated on Pipeline's Statement of Rates for Rate Schedule AFT-1 [Atlantic Bridge Project] at the applicable time.

FOOTNOTES:

1/ This negotiated rate transaction does not deviate in any material respect from the form of service agreement set forth in Pipeline's FERC Gas Tariff.

replaced with the adjusted Reservation Rate and adjusted term extension rates, which are the applicable rates updated to reflect the cost sharing rate adjustment set forth in footnote 3.

7/ Customer shall pay: (i) a commodity charge which shall be zero for the quantity of gas, in Dekatherms, delivered during the applicable Day under Pipeline's Rate Schedule AFT-1 for the Project; (ii) the applicable Fuel Reimbursement Quantity ("FRQ") under Pipeline's Rate Schedule AFT-1 for the Project; (iii) the applicable Annual Charge Adjustment and all other charges and surcharges applicable to Rate Schedule AFT-1 for the Project; and (iv) any future surcharge or additional usage charge pursuant to any FERC-approved cost recovery mechanism of general applicability implemented in a generic proceeding or in a Pipeline specific proceeding, which mechanism recovers cost components not reflected in Pipeline's initial recourse rate(s) applicable to service under Pipeline's Rate Schedule AFT-1 for the Project.

8/ **Most Favored Nations (MFN)**

(a) MFN Related to Service on the Project and Future Expansions—In the event Pipeline enters into a long-term firm transportation service agreement under Rate Schedule AFT-1, or any similar, firm non-lateral only transportation rate schedule for service on Pipeline's mainline, (i) prior to the in-service date of the Project for service on the Project or (ii) for a period within ten years following the in-service date of the Project for incremental expansion service under any future project, with any customer who is similarly situated to Customer, and such customer's reservation rate is less than Customer's Reservation Rate, Pipeline will promptly offer Customer the same reservation rate as such other customer, or an agreed rate as set forth in subpart (b)(iii), provided that, in the case of subpart (a)(ii) for incremental expansion service under any future project, all the requirements of subpart (b) are met. If Customer is willing to accept such reservation rate, Customer must do so under the same or substantially similar terms and conditions of service of the Algonquin Tariff or other Commission-approved provisions and the same or substantially similar rate related provisions applicable to such other customer, and as further described in subparts (c) and (d) below. For purposes of this footnote 8, Customer will be considered "similarly situated" to another Project customer or Qualifying Incremental Project Customer (as such latter term is defined in subpart (b)(ii) below) if Customer meets the criteria in subparts (a) and/or (b), as applicable, and in either case, if Customer is receiving firm transportation service under a service agreement (and rate agreement, if applicable) under the same or substantially similar terms and conditions of service of the Algonquin Tariff or other Commission-approved provisions and the same or substantially similar rate/rate related provisions as such Project customer or Qualifying Incremental Project Customer ("Similarly Situated Customer").

(b) Interrelationship to Future Expansions

(i) Determination of Indicative Rate - Except as otherwise provided herein, in the event Pipeline enters into a long-term firm transportation service agreement (i.e., one year or longer) under Rate Schedule AFT-1, or any similar firm non-lateral only transportation rate schedule for service using Pipeline's mainline, for service on an incremental expansion project of comparable scope with any Similarly Situated Customer all of whose Primary Receipt Point(s) are located at or upstream of the Mahwah Interconnect and all of whose Primary Delivery Point(s) are located at or downstream of the HubLine Interconnection (i.e., the point on Algonquin's I-9 line between Fore River 803 and Potter 081 near the town of Weymouth that Algonquin identifies as interconnection of its

Canadian Tolls

Line	Item	Units	TCPL and Enbridge Tolls	Reference
1	Union Parkway Belt to East Hereford on TCPL			
2	Demand Toll	\$CAD / GJ	\$ 19.27504	CAD-3
3	Delivery Pressure Demand Toll	\$CAD / GJ	\$ 0.60833	CAD-2
4	Abandonment Surcharge	\$CAD / GJ	\$ 1.11629	CAD-3
5	Total Demand Toll	\$CAD / GJ	\$ 20.99966	Sum of Above
6	\$USD to \$CAD	Ratio	1.3047	CAD-5
7	Total Demand Toll	\$US / GJ	\$ 16.0954	Line 5 divided by Line 6
8	GJ per Dth	Ratio	1.055056	
9	Total Demand Toll	\$US / Dth	\$ 16.9815	Line 7 divided by Line 8
10				
11	Dawn to Parkway on Enbridge Gas, Inc. Pipeline			
12	Total Demand Toll	\$CAD / GJ	\$ 3.6890	CAD-4
13	\$USD to \$CAD	Ratio	1.3047	CAD-5
14	Total Demand Toll	\$US / GJ	\$ 2.8275	Line 12 divided by Line 13
15	GJ per Dth	Ratio	1.055056	
16	Total Demand Toll	\$US / Dth	\$ 2.9832	Line 14 divided by Line 15
17				
18	Dawn to Parkway on Enbridge Gas, Inc. Pipeline			
19	Facility Carbon Charge	\$CAD / GJ	\$ 0.0040	CAD-4
20	\$USD to \$CAD	Ratio	1.3047	CAD-5
21	Total Demand Toll	\$US / GJ	\$ 0.0031	Line 12 divided by Line 13
22	GJ per Dth	Ratio	1.055056	
23	Facility Carbon Charge	\$US / Dth	\$ 0.0033	Line 14 divided by Line 15
24				
25	Enbridge Gas, Inc. Storage Injection/Withdrawal Charges			
26	Variable Storage Charges	\$CAD / GJ	\$ 0.0070	CAD-8
27	\$USD to \$CAD	Ratio	1.3047	CAD-5
28	Variable Storage Charges	\$US / GJ	\$ 0.0054	Line 12 divided by Line 13
29	GJ per Dth	Ratio	1.055056	
30	Variable Storage Charges	\$US / Dth	\$ 0.0057	Line 14 divided by Line 15

North Bay Junction Long Term Fixed Price (NBJ LTFP) Service

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
1	NBJ LTFP	28.28750	0.9300
2	NBJ LTFP Differential Surcharge	0.00000	0.0000

Note: The toll for NBJ LTFP is inclusive of the applicable Abandonment Surcharge for FT service from Empress to North Bay Junction. The NBJ LTFP Differential Surcharge is zero provided the Abandonment Surcharge for FT service from Empress to North Bay Junction is equal or less than \$6.69167/GJ/Month.

Enhanced Market Balancing Service

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
	(a)	(b)	(c)	(d)	(e)
3	Union Parkway Belt to Union EDA	9.92374	0.3262	0.43192	0.0142

Delivery Pressure

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
4	Average Delivery Pressure Toll	0.60833	0.0200

Note: Delivery Pressure toll applies to the following locations: Emerson 1 , Emerson 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa and East Hereford. The Daily Equivalent Toll is only applicable to STS Injections, IT, Diversions and STFT.

Union Dawn Receipt Point Surcharge

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
5	Union Dawn Receipt Point Surcharge	0.13135	0.0043

Short Notice Balancing (SNB) Service

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
6	SNB Toll	2.97597	0.0978

Note: This SNB Toll is a representative toll for the Eastern Region.

Energy Deficient Gas Allowance (EDGA) Service

Line No.	Particulars	Capacity Charge (\$/GJ/D)
	(a)	(b)
7	Western Section	0.9388
8	Eastern Section	0.3302

Note: The EDGA Service capacity charge for the Western Section is the effective Empress to North Bay Junction FT Toll and the capacity charge for the Eastern Section is the effective Parkway to North Bay Junction FT Toll. The EDGA Service fuel charge for the Western Section includes the effective Empress to North Bay Junction monthly fuel ratio and the fuel charge for the Eastern Section includes the effective Parkway to North Bay Junction monthly fuel ratio.

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union NDA	Enbridge CDA	-	0.4482	-	0.0214
2	Union NDA	Enbridge Parkway CDA	-	0.4537	-	0.0217
3	Union NDA	Enbridge EDA	-	0.4769	-	0.0233
4	Union NDA	KPUC EDA	-	0.5748	-	0.0298
5	Union NDA	Energir EDA	-	0.6348	-	0.0338
6	Union NDA	Enbridge SWDA	-	0.6014	-	0.0316
7	Union NDA	Union SWDA	-	0.6029	-	0.0317
8	Union NDA	Chippawa	-	0.5417	-	0.0276
9	Union NDA	Cornwall	-	0.5224	-	0.0263
10	Union NDA	East Hereford	-	0.7544	-	0.0418
11	Union NDA	Emerson 1	-	0.6135	-	0.0704
12	Union NDA	Emerson 2	-	0.6135	-	0.0704
13	Union NDA	Iroquois	-	0.5008	-	0.0249
14	Union NDA	Kirkwall	-	0.4785	-	0.0234
15	Union NDA	Napierville	-	0.6225	-	0.0330
16	Union NDA	Niagara Falls	-	0.5401	-	0.0275
17	Union NDA	North Bay Junction	-	0.1241	-	0.0061
18	Union NDA	Phillipsburg	-	0.6339	-	0.0338
19	Union NDA	Spruce	-	0.5665	-	0.0642
20	Union NDA	St. Clair	-	0.6170	-	0.0326
21	Union NDA	Welwyn	-	0.6959	-	0.0812
22	Union NDA	Dawn Export	-	0.6014	-	0.0316
23	Union Parkway Belt	Empress	36.52433	1.2008	3.78079	0.1243
24	Union Parkway Belt	TransGas SSSDA	32.93821	1.0829	3.30933	0.1088
25	Union Parkway Belt	Centram SSSDA	30.35888	0.9981	2.97171	0.0977
26	Union Parkway Belt	Centram MDA	27.81908	0.9146	2.64017	0.0868
27	Union Parkway Belt	Centrat MDA	28.49738	0.9369	2.58846	0.0851
28	Union Parkway Belt	Union WDA	23.89229	0.7855	1.98317	0.0652
29	Union Parkway Belt	Nipigon WDA	21.91217	0.7204	1.72463	0.0567
30	Union Parkway Belt	Union NDA	13.80004	0.4537	0.66004	0.0217
31	Union Parkway Belt	Calstock NDA	18.57850	0.6108	1.28663	0.0423
32	Union Parkway Belt	Tunis NDA	15.95354	0.5245	0.94292	0.0310
33	Union Parkway Belt	Energir NDA	13.73008	0.4514	0.65092	0.0214
34	Union Parkway Belt	Union SSMDA	16.31854	0.5365	1.12846	0.0371
35	Union Parkway Belt	Union NCDA	6.64604	0.2185	0.27375	0.0090
36	Union Parkway Belt	Union CDA	4.16100	0.1368	0.10646	0.0035
37	Union Parkway Belt	Union ECDA	3.47358	0.1142	0.06083	0.0020
38	Union Parkway Belt	Union EDA	9.02158	0.2966	0.43192	0.0142
39	Union Parkway Belt	Union Parkway Belt	2.92000	0.0960	0.02433	0.0008
40	Union Parkway Belt	Enbridge CDA	4.55946	0.1499	0.13383	0.0044
41	Union Parkway Belt	Enbridge Parkway CDA	2.92000	0.0960	0.02433	0.0008
42	Union Parkway Belt	Enbridge EDA	12.02067	0.3952	0.63267	0.0208
43	Union Parkway Belt	KPUC EDA	8.94250	0.2940	0.42583	0.0140
44	Union Parkway Belt	Energir EDA	15.63721	0.5141	0.87296	0.0287
45	Union Parkway Belt	Enbridge SWDA	7.41558	0.2438	0.32546	0.0107
46	Union Parkway Belt	Union SWDA	7.45817	0.2452	0.32850	0.0108
47	Union Parkway Belt	Chippawa	5.59667	0.1840	0.20379	0.0067
48	Union Parkway Belt	Cornwall	12.21838	0.4017	0.64483	0.0212
49	Union Parkway Belt	East Hereford	19.27504	0.6337	1.11629	0.0367
50	Union Parkway Belt	Emerson 1	26.21004	0.8617	2.42725	0.0798
51	Union Parkway Belt	Emerson 2	26.21004	0.8617	2.42725	0.0798
52	Union Parkway Belt	Iroquois	11.37888	0.3741	0.59008	0.0194
53	Union Parkway Belt	Kirkwall	3.67738	0.1209	0.07604	0.0025
54	Union Parkway Belt	Napierville	15.26004	0.5017	0.84863	0.0279
55	Union Parkway Belt	Niagara Falls	5.55104	0.1825	0.20075	0.0066
56	Union Parkway Belt	North Bay Junction	10.04358	0.3302	0.49883	0.0164
57	Union Parkway Belt	Phillipsburg	15.60679	0.5131	0.86992	0.0286
58	Union Parkway Belt	Spruce	28.49738	0.9369	2.58846	0.0851
59	Union Parkway Belt	St. Clair	7.88704	0.2593	0.35588	0.0117
60	Union Parkway Belt	Welwyn	30.35888	0.9981	2.97171	0.0977
61	Union Parkway Belt	Dawn Export	7.41558	0.2438	0.32546	0.0107
62	Union SSMDA	Empress	-	0.8020	-	0.0951
63	Union SSMDA	TransGas SSSDA	-	0.6841	-	0.0796
64	Union SSMDA	Centram SSSDA	-	0.5994	-	0.0685
65	Union SSMDA	Centram MDA	-	0.5158	-	0.0576
66	Union SSMDA	Centrat MDA	-	0.5100	-	0.0568
67	Union SSMDA	Union WDA	-	0.6741	-	0.0783
68	Union SSMDA	Nipigon WDA	-	1.0178	-	0.0852
69	Union SSMDA	Union NDA	-	0.8110	-	0.0581
70	Union SSMDA	Calstock NDA	-	0.9678	-	0.0786
71	Union SSMDA	Tunis NDA	-	0.8815	-	0.0673
72	Union SSMDA	Energir NDA	-	0.8084	-	0.0577
73	Union SSMDA	Union SSMDA	-	0.0960	-	0.0008
74	Union SSMDA	Union NCDA	-	0.6590	-	0.0453
75	Union SSMDA	Union CDA	-	0.5295	-	0.0367
76	Union SSMDA	Union ECDA	-	0.5541	-	0.0383
77	Union SSMDA	Union EDA	-	0.7371	-	0.0505
78	Union SSMDA	Union Parkway Belt	-	0.5365	-	0.0371
79	Union SSMDA	Enbridge CDA	-	0.5837	-	0.0403
80	Union SSMDA	Enbridge Parkway CDA	-	0.5365	-	0.0371
81	Union SSMDA	Enbridge EDA	-	0.8357	-	0.0571

ENBRIDGE GAS INC.
UNION SOUTH
TRANSPORTATION RATES

(A) Applicability

The charges under this schedule shall be applicable to a Shipper who enters into a Transportation Service Contract with Union.

Applicable Points

Dawn as a receipt point: Dawn (TCPL), Dawn (Facilities), Dawn (Tecumseh), Dawn (Vector) and Dawn (TSLE).
Dawn as a delivery point: Dawn (Facilities).

(B) Services

Transportation Service under this rate schedule shall be for transportation on Union's Dawn - Parkway facilities.

(C) Rates

The identified rates represent maximum prices for service. These rates may change periodically.
Multi-year prices may also be negotiated, which may be higher than the identified rates.

	Monthly Demand Charges (applied to daily contract demand) <u>Rate/GJ</u>	<u>Fuel and Commodity Charges</u>			
		<u>Union Supplied Fuel</u>		<u>Shipper Supplied Fuel</u>	
		<u>Fuel and Commodity Charge</u> <u>Rate/GJ</u>		<u>Fuel</u> <u>Ratio %</u>	<u>AND</u>
<u>Firm Transportation (1), (5)</u>					
Dawn to Parkway	\$3.689	Monthly fuel and commodity rates shall be in accordance with schedule "C".	Monthly fuel ratios shall be in accordance with schedule "C".		
Dawn to Kirkwall	\$3.130				
Kirkwall to Parkway	\$0.559				
<u>M12-X Firm Transportation</u>					
Between Dawn, Kirkwall and Parkway	\$4.560	Monthly fuel and commodity rates shall be in accordance with schedule "C".	Monthly fuel ratios shall be in accordance with schedule "C".		
<u>Limited Firm/Interruptible Transportation (1)</u>					
Dawn to Parkway – Maximum	\$8.854	Monthly fuel and commodity rates shall be in accordance with schedule "C".	Monthly fuel ratios shall be in accordance with schedule "C".		
Dawn to Kirkwall – Maximum	\$8.854				
Parkway (TCPL / EGT) to Parkway (Cons) / Lisgar (2)	n/a	n/a	0.167%		
<u>Carbon Charge (applied to all quantities transported)</u>					
Facility Carbon Charge		\$0.004	\$0.004		



Daily Exchange Rates Lookup



All Bank of Canada exchange rates are indicative rates only, obtained from averages of aggregated price quotes from financial institutions. For details, please read our full [Terms and Conditions](#).

US dollar (USD)

Date	USD → CAD	CAD → USD
2022-07-06	1.3047	0.7665

Service Type	Receipt Location	Delivery Location	From Gas Day	To Gas Day	Combined Ratio
FH	Union Parkway Belt	East Hereford	5/1/2021	5/31/2021	1.24
FH	Union Parkway Belt	East Hereford	6/1/2021	6/30/2021	1.24
FH	Union Parkway Belt	East Hereford	7/1/2021	7/31/2021	1.27
FH	Union Parkway Belt	East Hereford	8/1/2021	8/31/2021	1.62
FH	Union Parkway Belt	East Hereford	9/1/2021	9/30/2021	1.08
FH	Union Parkway Belt	East Hereford	10/1/2021	10/31/2021	1.56
FH	Union Parkway Belt	East Hereford	11/1/2021	11/30/2021	1.42
FH	Union Parkway Belt	East Hereford	12/1/2021	12/31/2021	1.54
FH	Union Parkway Belt	East Hereford	1/1/2022	1/31/2022	1.59
FH	Union Parkway Belt	East Hereford	2/1/2022	2/28/2022	1.51
FH	Union Parkway Belt	East Hereford	3/1/2022	3/31/2022	1.65
FH	Union Parkway Belt	East Hereford	4/1/2022	4/30/2022	1.23
FH	Union Parkway Belt	East Hereford	Average Winter (Nov-Mar)		1.54
FH	Union Parkway Belt	East Hereford	Average Summer (Apr-Oct)		1.32

ENBRIDGE GAS INC.

Union South

M12 Monthly Transportation Fuel Ratios and Fuel Rates

Firm or Interruptible Transportation Commodity

Effective April 1, 2022

Month	VT1 Easterly Dawn to Parkway (TCPL), Parkway (EGT) With Dawn Compression		VT1 Easterly Dawn to Kirkwall, Lisgar, Parkway (Consumers) With Dawn Compression		M12-X Westerly Kirkwall to Dawn	
	Fuel Ratio	Fuel Rate	Fuel Ratio	Fuel Rate	Fuel Ratio	Fuel Rate
	(%)	(\$/GJ)	(%)	(\$/GJ)	(%)	(\$/GJ)
April	0.926	0.048	0.577	0.031	0.167	0.008
May	0.658	0.035	0.394	0.021	0.167	0.008
June	0.550	0.029	0.290	0.015	0.167	0.008
July	0.534	0.028	0.277	0.015	0.167	0.008
August	0.426	0.022	0.168	0.008	0.167	0.008
September	0.421	0.022	0.168	0.008	0.167	0.008
October	0.791	0.042	0.487	0.025	0.167	0.008
November	0.942	0.050	0.659	0.035	0.167	0.008
December	1.067	0.056	0.783	0.041	0.167	0.008
January	1.229	0.065	0.930	0.049	0.167	0.008
February	1.167	0.061	0.876	0.046	0.167	0.008
March	1.089	0.058	0.784	0.041	0.167	0.008

Month	M12-X Easterly Kirkwall to Parkway (TCPL), Parkway (EGT)		M12-X Easterly Kirkwall to Lisgar, Parkway (Consumers)		M12-X Westerly Parkway to Kirkwall, Dawn	
	Fuel Ratio	Fuel Rate	Fuel Ratio	Fuel Rate	Fuel Ratio	Fuel Rate
	(%)	(\$/GJ)	(%)	(\$/GJ)	(%)	(\$/GJ)
April	0.515	0.027	0.167	0.008	0.316	0.017
May	0.432	0.023	0.167	0.008	0.316	0.017
June	0.426	0.022	0.167	0.008	0.316	0.017
July	0.425	0.022	0.167	0.008	0.316	0.017
August	0.425	0.022	0.167	0.008	0.316	0.017
September	0.420	0.022	0.167	0.008	0.316	0.017
October	0.470	0.024	0.167	0.008	0.316	0.017
November	0.450	0.023	0.167	0.008	0.167	0.008
December	0.451	0.023	0.167	0.008	0.167	0.008
January	0.466	0.024	0.167	0.008	0.167	0.008
February	0.457	0.024	0.167	0.008	0.167	0.008
March	0.472	0.024	0.167	0.008	0.167	0.008

PRICING PROVISIONS

Shipper agrees to pay Union the following for the Storage Services:

- (a) **Monthly Demand Charge:** For the period of April, 2018 to March, 2023 inclusive, a monthly demand charge of \$236,666.67 US if the Maximum Storage Balance is 4,220,224 GJ (4,000,000 MMBtu); or a monthly demand charge of \$201,666.67 US if Shipper elects a lower Maximum Storage Balance of 3,587,190 GJ (3,400,000 MMBtu).
- (b) **Demand Charge Escalation:** *Intentionally blank*
- (c) **Variable Storage Charges:**
 - (i) **Firm:** For each GJ of gas withdrawn from or injected into the Storage Account on a firm basis, a charge equal to \$0.007 CDN/GJ;
 - (ii) **Interruptible:** For each GJ of gas withdrawn from or injected into the Storage Account on an interruptible basis, a charge equal to the price set out under the heading 'If Shipper supplies fuel Commodity Charge Price/GJ' in the 'Storage Services' section under '(C) Pricing' in the MPSS (currently \$0.041CDN/GJ);
 - (iii) **Authorized Overrun:** For each GJ of gas withdrawn from or injected into the Storage Account on an authorized overrun basis, a charge equal to the price set out under the heading 'If Shipper supplies fuel Commodity Charge Price/GJ' in the 'Authorized Overrun' section under '(C) Pricing' in the MPSS (currently \$0.041CDN/GJ);
 - (iv) **Dehydration Charge:** Not Applicable.
- (d) **Fuel:**
 - (i) **Firm and Interruptible:** For each GJ of gas withdrawn from or injected into the Storage Account on a firm or interruptible basis, an amount of fuel in kind equal to the fuel ratio set out under the heading of 'If Shipper supplies fuel' in the 'Storage Services' section under '(C) Pricing' in the MPSS (currently 0.600%).
 - (ii) **Authorized Overrun:** For each GJ of gas withdrawn from or injected into the Storage Account on an authorized overrun basis, an amount of fuel in kind equal to the fuel ratio set out under the heading of 'If Shipper supplies fuel' in the 'Authorized Overrun' section under '(C) Pricing' in the MPSS (currently 1.03%).
- (e) **Late Season Balance Charge and Early Season Balance Charge:** *Intentionally blank*
- (f) **Shortfall Charge:** *Intentionally blank*
- (g) **Other Charges:** Any and all other charges as may be set out in this Contract, and any charges relating to Unauthorized Overrun, Drafted Storage Balance and Overrun of Maximum Storage Balance as set out in the MPSS.

FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON, D.C. 20426

FY 2022 GAS ANNUAL CHARGES
CORRECTION FOR ANNUAL CHARGES UNIT CHARGE
June 21, 2022

The annual charges unit charge (ACA) to be applied to in fiscal year 2023 for recovery of FY 2022 Current year and 2021 True-Up is **\$0.0015** per Dekatherm (Dth). The new ACA surcharge will become effective October 1, 2022.

The following calculations were used to determine the FY 2022 unit charge:

2022 CURRENT:

Estimated Program Cost \$91,433,000 divided by 62,561,913,420 Dth = 0.0014614802

2021 TRUE-UP:

Debit/Credit Cost \$2,517,644 divided by 61,518,030,836 Dth = 0.0000409253

TOTAL UNIT CHARGE = 0.0015024055

If you have any questions, please contact Raven A. Rodriguez at (202)502-6276 or e-mail at Raven.Rodriguez@ferc.gov.

PUBLIC

4.2 Rate Schedule FT-NN
 Firm Transportation Service
 Currently Effective Rates

	\$/Dth	
	Base Tariff Rate	ACA Adj.
Reservation Charge:		
Maximum	\$6.1563	N/A
Minimum	\$0.0000	N/A
Commodity Charge:		
Maximum	\$0.0000	a/
Minimum	\$0.0000	a/
Authorized Overrun Commodity Charge:		
Maximum	\$0.2024	a/
Minimum	\$0.0000	a/
Fuel and Losses Percentage	0.35%	N/A
Volumetric Reservation Charge		
Maximum	\$0.2024	a/
Minimum	\$0.0000	a/

a/ The ACA Adj. Surcharge is revised annually and posted on the FERC website at the web address <http://www.ferc.gov> on the Annual Charges page of the Natural Gas Section. The ACA Adj. Surcharge is incorporated by reference in the Transporter's Tariff and shall apply to all transportation under this Rate Schedule as provided in Section 6.17 of the General Terms and Conditions.

Iroquois Gas Transmission System, L.P.

Settlement Attachment

Pro-Forma Tariff Sheet No. 4 Revision 5 superseding Revision 4

----- NON-EASTCHESTER RATES (All in \$ Per Dth) 1/-----

	Minimum	<u>RP16-301</u> <u>RP19-445</u>	<u>RP22-TBD Rates</u>		
		Rates Maximum <u>21/</u>	Maximum <u>RP19-445 Rates</u>		
		<u>Effective</u> <u>4/1/2020</u> <u>Effective</u> <u>9/1/2016</u>	Effective 9/1/20 <u>22</u> <u>17</u>	Effective 9/1/ <u>2018</u> <u>2023</u>	Effective <u>39</u> /1/ <u>2019</u> <u>2024</u>
RTS DEMAND (Monthly):					
Zone 1	\$0.0000	<u>\$5.2357</u> \$ 6.1928	<u>5.9982</u> <u>4.8393</u>	<u>5.5997</u> <u>4.5655</u>	<u>\$5.4177</u> <u>4.2918</u>
Zone 2	\$0.0000	<u>\$4.4878</u> \$ 5.3381	<u>5.1678</u> <u>4.3344</u>	<u>4.7998</u> <u>4.1823</u>	<u>\$4.6438</u> <u>4.0302</u>
Inter-Zone	\$0.0000	<u>\$8.2304</u> \$10.4755	<u>9.8672</u> <u>7.4217</u>	<u>8.8026</u> <u>7.2240</u>	<u>\$8.5165</u> <u>7.0567</u>
RTS COMMODITY (Daily):					
Zone 1	\$0.0034	<u>\$0.0034</u> \$ -0.0034	<u>\$-0.0034</u>	\$-0.0034	\$0.0034
Zone 2	\$0.0022	<u>\$0.0022</u> \$ -0.0022	<u>\$-0.0022</u>	\$-0.0022	\$0.0022
Inter-Zone	\$0.0056	<u>\$0.0056</u> \$ -0.0056	<u>\$-0.0056</u>	\$-0.0056	\$0.0056
ITS COMMODITY (Daily):					
Zone 1	\$0.0034	<u>\$0.1755</u> \$ -0.2070	<u>0.2006</u> <u>0.1625</u>	<u>0.1875</u> <u>0.1535</u>	<u>\$0.1815</u> <u>0.1445</u>
Zone 2	\$0.0022	<u>\$0.1497</u> \$ -0.1777	<u>0.1721</u> <u>0.1447</u>	<u>0.1600</u> <u>0.1397</u>	<u>\$0.1549</u> <u>0.1347</u>
Inter-Zone	\$0.0056	<u>\$0.2762</u> \$ -0.3500	<u>0.3300</u> <u>0.2496</u>	<u>0.2950</u> <u>0.2431</u>	<u>\$0.2856</u> <u>0.2376</u>
VOLUMETRIC CAPACITY RELEASE (Daily) <u>32/</u> :					
Zone 1	\$0.0000	<u>\$0.1721</u> \$ -0.2036	<u>0.1972</u> <u>0.1591</u>	<u>0.1841</u> <u>0.1501</u>	<u>\$0.1781</u> <u>0.1411</u>
Zone 2	\$0.0000	<u>\$0.1475</u> \$ -0.1755	<u>0.1699</u> <u>0.1425</u>	<u>0.1578</u> <u>0.1375</u>	<u>\$0.1527</u> <u>0.1325</u>
Inter-Zone	\$0.0000	<u>\$0.2706</u> \$ -0.3444	<u>0.3244</u> <u>0.2440</u>	<u>0.2894</u> <u>0.2375</u>	<u>\$0.2800</u> <u>0.2320</u>

Iroquois Gas Transmission System, L.P.

Settlement Attachment

Pro-Forma Tariff Sheet No. 4.01 Revision 5 superseding Revision 4

~~1/ Transporter's Settlement dated February 28, 2019, in Docket Nos. RP19-445-000, et al., approved by Commission Order issued May 2, 2019, established two additional rate step downs effective 3/1/2019 and 4/1/2020 referred to as "RP19-445 Rates", but otherwise did not modify Transporter's Settlement dated August 18, 2016, in Docket No. RP16-301-000, which remains effective, including the moratorium on initiation of changes to Transporter's Settlement Rates prior to September 1, 2020. All Maximum and Minimum Rates listed on Sheet Nos. 4, 4B, 4C, and 5A are subject to the moratorium.~~

12/ The ~~RP16~~RP19-445301 Rates that became effective ~~9/1/2018~~4/1/2020 shall be applicable to any Contesting Party to the Settlement dated ~~February 28, 2019~~[insert date], pursuant to Section ~~13.35.2 and 5.3~~ of that Settlement, ~~and shall become Transporter's effective base tariff rates in the event and as of the date that the Settlement dated February 28, 2019 terminates early pursuant to Sections 6.2 and 6.3. See footnote 1.~~

23/ No rate cap shall apply to any capacity releases with terms of less than or equal to one year pursuant to FERC Order Nos. 712 et al.

Historic Iroquois Zone 1 Fuel Rates

May-21	0.10%
Jun-21	0.00%
Jul-21	0.20%
Aug-21	0.10%
Sep-21	0.00%
Oct-21	0.00%
Nov-21	0.20%
Dec-21	0.20%
Jan-22	0.40%
Feb-22	0.50%
Mar-22	0.20%
Apr-22	0.30%
Nov-Mar	0.30%
Apr-Oct	0.10%

STATEMENT OF NEGOTIATED RATES 1/2/4/6/

Customer Name: Northern Utilities, Inc. d/b/a Unitil

Service Agreement: 210371

Rate Schedule: MN365

Reservation Rate: Customer shall pay a negotiated reservation rate of \$13.3833 per Dth, per month (equivalent to \$0.44 per Dth, per Day) of Customer's MDTQ under Contract No. 210371 during the Term of Negotiated Rate.

Usage Rate and Other Charges: 3/

Term of Negotiated Rate: The term of this negotiated rate commences on January 1, 2021 and extends through December 31, 2035. 5/

Quantity ("MDTQ"): 7,500 Dth/d

Primary Receipt Point:

Beverly – Essex Co., MA (Meter No. 30035) - 7,500 Dth/d

Primary Delivery Points:

Northern Utilities – Cotton Rd – Androscoggin Co, ME (Meter No. 30028)– 7,500 Dth/d

Recourse Rate(s): The Recourse Rate(s) applicable to this service is the applicable maximum rate(s) stated on Pipeline's Statement of Rates for Rate Schedule MN365 at the applicable time.

FOOTNOTES:

1/ This negotiated rate transaction does not deviate in any material respect from the form of service agreement set forth in Pipeline's FERC Gas Tariff.

2/ This Negotiated Rate shall apply only to transportation service under Contract No. 210371, up to Customer's specified MDTQ, using the Primary Receipt Point and Primary Delivery Point designated herein, and any secondary receipt and delivery points available under Rate Schedule MN365.

3/ Customer shall pay: (i) a commodity charge which shall be zero for the quantity of gas, in Dekatherms, delivered during the applicable Day under Pipeline's Rate Schedule MN365; (ii) the applicable Fuel Reimbursement Quantity ("FRQ") under Pipeline's Rate Schedule MN365; (iii) the applicable Annual Charge Adjustment and all other charges and surcharges applicable to Rate Schedule MN365; and (iv) any future surcharge or additional usage charge pursuant to any FERC-approved cost recovery mechanism of general applicability implemented in a generic proceeding or in a Pipeline specific proceeding, which mechanism recovers cost components not

reflected in Pipeline's recourse rate(s) applicable to service under Pipeline's Rate Schedule MN365.

4/ Pipeline and Customer agree that Contract No. 210371 is a ROFR Agreement.

5/ If the term of Contract No. 210371 renews for one or more twelve (12) month evergreen period(s) at the negotiated reservation rate, then the term of this Negotiated Rate Agreement shall be extended for such evergreen period(s).

6/ Customer will be eligible to receive reservation charge adjustments under this Negotiated Rate Agreement in accordance with Pipeline's FERC Gas Tariff.

FUEL RETAINAGE PERCENTAGES

FUEL RETAINAGE PERCENTAGE: PURSUANT TO SECTION 20 OF THE GT&C

Winter Period (November 1 - March 31)	0.74%
Non-Winter Period (April 1 - October 31)	0.98%

SCHEDULE 1

Receipt Point(s): 01-0100 Pittsburg, NH
Delivery Point(s): 05-0850 Newington Granite State
Maximum Daily Quantity: 40003 Dth/day
Maximum Contract Demand: 219176437 Dth
Effective Service Period: April 1, 2018 through November 30, 2032

Rate Provision(s) (check if applicable rate):

Discounted Rate

Negotiated Rate

Shipper's charges and fees shall be calculated as follows:

\$0.6000/Dth/day

Additional Terms: Shipper shall have the right to deliver, on a secondary basis, to the following meters, at the Negotiated Rate of \$0.60/Dth/day. Delivery to all other secondary delivery points on this Negotiated Rate contract shall be priced at the Maximum Recourse Rate.

Meter #	Name	Operator
05-0525	Westbrook	M&NE
05-0600	Westbrook	Granite State
02-0650	Gorham	Maine Natural Gas
05-0725	Eliot	Granite State
05-0750	Eliot CNG	XPress Natural Gas
02-0775	Newington	Essential Power
02-0900	Newington	Eversource
05-0850	Newington	Granite State
05-1000	Haverhill	Tennessee Gas Pipeline
05-1025	Haverhill	National Grid
05-1050	Methuen	M&NE
05-1150	Dracut	Tennessee Gas Pipeline

SCHEDULE 1

Primary Receipt Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	Maximum Daily Quantity (Dth/day)
11/1/2020	10/31/2040	10100	Pittsburg (East Hereford)	0 (Phase I Quantity) plus 0 (Phase II Quantity) plus 10,000 (Phase III Quantity)

Primary Delivery Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	Maximum Daily Quantity (Dth/day)
11/1/2020	10/31/2040	50850	Newington Granite State	0 (Phase I Quantity) plus 0 (Phase II Quantity) plus 10,000 (Phase III Quantity)

Maximum Contract Demand	0 Dth (Phase I Quantity)
plus	0 Dth (Phase II Quantity)
plus	10,000 Dth (Phase III Quantity)
Total Maximum Contract Demand	10,000 Dth (Phase I, II and III Quantities)

Effective Service Period 1/ to 1/

Rate Provision(s) (check if applicable rate):

Discounted Rate
 Negotiated Rate

Shipper's charges and fees shall be calculated as follows:

For the period of November 1, 2020 through October 31, 2021, for volumes received at the

primary receipt point and delivered to the primary delivery point, the reservation charge shall be \$0.7500/Dth/day (the “Negotiated Daily Demand Rate”). For the period of November 1, 2021 through October 31, 2040, for volumes received at the primary receipt point and delivered to the primary delivery point, the Negotiated Daily Demand Rate shall be \$0.7448/Dth/day.

For volumes received at the primary receipt point and delivered to any of the following secondary delivery points, the reservation charge shall be the Negotiated Daily Demand Rate: Westbrook M&NE, Westbrook Granite State, Eliot Granite State, Dracut and Haverhill Tennessee Gas. Deliveries to any other secondary delivery point(s) will be at the Recourse Reservation Rate.

Shipper shall have secondary receipt point access for delivery to any delivery point at the Recourse Reservation Rate.

In addition to the applicable reservation rate stated above, Shipper shall pay or furnish, as applicable, all maximum applicable demand and commodity surcharges, unit charges, Measurement Variance Quantities, and other fuel requirements and charges, as specified in the Tariff, in addition to any charges associated with mandated compliance with new or revised regulations or legislation (i.e. environmental, modernization and safety), which may change from time to time, and any other amounts contemplated under Article IV of this Contract.

PNGTS Construction Cost Sharing:

Shipper’s Negotiated Daily Demand Rate for PNGTS reflected above shall be adjusted as follows:

To the extent Actual PNGTS Construction Costs (defined below) exceed Estimated PNGTS Construction Costs (defined below), Shipper’s Negotiated Daily Demand Rate shall be multiplied by the Capital Cost Overrun Factor (“CCO Factor”). The CCO Factor shall be equal to $1 + [(CCO/EPCC) \times 50\%]$. In no event shall the CCO Factor exceed 1.0667.

To the extent Actual PNGTS Construction Costs, as defined below, are less than Estimated PNGTS Construction Costs as defined below, Shipper’s Negotiated Daily Demand Rate shall be multiplied by the Capital Cost Underrun Factor (“CCU Factor”). The CCU Factor shall be equal to $1 - [(CCU/EPCC) \times 50\%]$. In no event shall the CCU Factor be less than 0.9333.

Any such adjustment to Shipper’s Negotiated Daily Demand Rate for PNGTS shall be subject to a rate adjustment cap of +/- US\$0.05 per Dth (overruns/underruns). Such adjustment shall be effective on the actual in-service date for Phase III based on the final costs estimated by PNGTS at such time, and subsequently adjusted, if necessary, as soon as administratively feasible based on the Phase III final cost report filed with the FERC, to keep the applicable Parties financially whole as if the actual costs were known as of the actual in-service date of Phase III. Any subsequent adjustment shall not be later than the first anniversary date of the actual in-service date of Phase III and shall remain in effect for the balance of the Initial Term.

“Actual PNGTS Construction Costs” or “APCC” shall mean the amount filed by PNGTS with the FERC following completion of construction of the facilities associated with PXP Phase III (such construction shall be referred to herein as “PNGTS Construction”). PNGTS shall maintain books and records reasonably necessary for Shipper to verify the APCC.

“Capital Cost Overrun” or “CCO” shall be an amount in U.S. dollars equal to the difference between

the Actual PNGTS Construction Costs and the Estimated PNGTS Construction Costs, if Actual PNGTS Construction Costs exceed Estimated Project Costs.

“Capital Cost Underrun” or “CCU” shall be an amount in U.S. dollars equal to the difference between the Actual PNGTS Construction Costs and the Estimated PNGTS Construction Costs, if Actual PNGTS Construction Costs are less than Estimated PNGTS Construction Costs.

“Estimated PNGTS Construction Costs” or “EPCC” shall mean all costs and expenses that are projected to be incurred by PNGTS to complete the PNGTS Construction in the manner contemplated by this Agreement as filed with the FERC in its Section 7 of the Natural Gas Act certificate application for Phase III.

Shipper shall have one-time audit right to be exercised no later than thirteen (13) months after the actual in-service date for Phase III, at Shipper’s sole cost and expense, to review PNGTS’s books and records as reasonably necessary to verify costs associated with Phase III of the PNGTS Construction for purposes of this provision.

Historic PNGTS Zone 1 Measurement Variance Rates

May-21	-1.00%
Jun-21	-1.00%
Jul-21	-1.00%
Aug-21	-1.00%
Sep-21	-1.00%
Oct-21	-1.00%
Nov-21	1.00%
Dec-21	-0.31%
Jan-22	-0.83%
Feb-22	-1.00%
Mar-22	-0.10%
Apr-22	0.90%
Annual	-0.53%
Projected (Greater of Annual Average or 0%)	0.00%
PXP Project Fuel Rate	0.28%
WXP Project Fuel Rate	1.336%

**Portland Natural Gas Transmission System
Portland XPress Project (PXP) Phase III
Project Fuel Study**

M&N Operating Company, LLC, the operator of the Joint Facilities between Westbrook and Dracut, estimated the daily fuel consumption for PXP. The result of the study is shown on Line 3 below. The proposed initial Fuel Rate was calculated by dividing the total estimated daily fuel consumption by the estimated daily volume to be transported on the Joint Facilities.

Once in service, the Fuel Rate will be adjusted monthly pursuant to proposed Section 6.2.26 of the General Terms & Conditions of PNGTS's FERC Gas Tariff, Third Revised Volume No. 1, so that the Fuel Rate is based upon actual fuel usage and transportation activity. Currently, the PNGTS system has no compression facilities and therefore shippers only pay a charge related to Lost And Unaccounted For Gas.

Line No.	Description		
1	Installed Horsepower	6,300	hp
2	PXP Volume Transported on both Northern Facilities and Joint Facilities	119,378	Dth/d
3	Estimated Fuel	296.2	Dth/d
4	Assumed Load Factor	90%	
5	Initial Compressor Fuel Rate	0.28%	

Statement of Transportation Rates
 (Rates per DTH)

Rate Schedule	Rate Component	Base Rate	ACA Unit Charge 1/
FT	Recourse Reservation Rate		
	-- Maximum	\$25.9843	-----
	-- Minimum	\$00.0000	-----
	Seasonal Recourse Reservation Rate		
	-- Maximum	\$49.3701	-----
	-- Minimum	\$00.0000	-----
	Recourse Usage Rate		
	-- Maximum	\$00.0000	2/
	-- Minimum	\$00.0000	2/
	-- PXP Project	\$00.0091	
FT-FLEX	Recourse Reservation Rate		
	--Maximum	\$17.4406	-----
	--Minimum	\$00.0000	-----
	Recourse Usage Rate		
	--Maximum	\$00.2809	2/
	--Minimum	\$00.0000	2/

The following adjustment applies to all Rate Schedules above:

MEASUREMENT VARIANCE FACTOR-LAUF:

Minimum down to -1.00%
 Maximum up to +1.00%

MEASUREMENT VARIANCE FACTOR-FUEL 3/

-
- 1/ ACA assessed where applicable under Section 154.402 of the Commission's regulations and will be charged pursuant to Section 6.18 of the General Terms and Conditions at such time that initial and successive ACA assessments are made.
 - 2/ The currently effective ACA unit charge as published on the Commission's website (www.ferc.gov) is incorporated herein by reference.

- 3/ Measurement Variance Factor-Fuel shall be calculated in accordance with Section 6.2.26 herein and shall apply to Rate Schedule FT-Firm Transportation Service PXP contracts with primary point rights on the Joint Facilities, and Phase II and Phase III Rate Schedule FT-Firm Transportation Service WXP contracts, as applicable.

SCHEDULE 1

Primary Receipt Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	<u>Maximum Daily Quantity (Dth/day)</u>
1/	1/	10100	PITTSBURG (EAST HEREFORD)	10,000

Primary Delivery Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	<u>Maximum Daily Quantity (Dth/day)</u>
1/	1/	51150	DRACUT, MASSACHUSETTS	10,000

Maximum Contract Demand 10,000 Dth
 Effective Service Period 1/ to 1/

Rate Provision(s) (check if applicable rate):

Discounted Rate
 Negotiated Rate

Shipper's charges and fees shall be calculated as follows:

For 1/ to 1/ , shipper agrees to pay a fixed discounted daily demand rate of \$0.8200 per Dth ("Discounted Daily Demand Rate") multiplied by the sum of the Maximum Daily Quantity during such term.

Other terms and conditions:

In addition to the Discounted Daily Demand Rate, Shipper shall pay all maximum applicable demand and commodity surcharges, including but not limited to measurement variance and unit charges, specified under Rate Schedule FT set forth in the Tariff, in addition to any charges associated with mandated compliance with new or revised regulations or legislation (i.e. environmental, modernization and safety) (collectively, the "Project Rate").

If during the term in Article VII, Transporter's maximum recourse rate under Rate Schedule FT set forth in the Tariff for a route from the Primary Receipt Point to the Primary Delivery Point is, or is expected to be, lower than the fixed \$0.8200/Dth/day then Transporter may, at its discretion, require Shipper to convert its Discounted Daily Demand Rate to a fixed negotiated daily reservation rate equal to \$0.8200/Dth/day (the "Converted Negotiated Demand Rate"), and Shipper would continue to pay all other components of the Project Rate without modification thereto. The Parties expressly agree that if a conversion to the Converted Negotiated Demand Rate occurs, it shall not make Shipper responsible for any charges or surcharges above and beyond the Project Rate which it otherwise would not be responsible for prior to such conversion. If during the term in Article VII and after Transporter requires Shipper to convert its Discounted Daily Demand Rate to the Converted Negotiated Demand Rate, the maximum Tariff recourse rate under Rate Schedule FT set forth in the Tariff for a route from Primary Receipt Point to the Primary Delivery Point is, or is expected to be, greater than the Discounted Daily Demand Rate was prior to such conversion, Transporter may, at its discretion, require Shipper to convert is Converted Negotiated Demand Rate back to Discounted Daily Demand Rate.

Shipper shall have secondary receipt point access on Transporter's system pursuant to the terms and conditions of Transporter's Tariff, at the Project Rate.

Secondary Delivery Points:

Shipper shall have secondary delivery point access on Transporter's system pursuant to the terms and conditions of Transporter's Tariff at the Project Rate.

1/ Pursuant to Article VII of the Contract.

**Portland Natural Gas Transmission System
 Westbrook XPress (WXP) Phase II and III
 Project Measurement Variance Factor-Fuel Study**

Line No.	Description			
1	Installed Horsepower		15,900	hp
2	WXP Incremental Project Capacity	1/	80,998	Mcf/d
3	Assumed Load Factor Range		75% to 100%	
4	Estimated Fuel Usage Range		0 to 1,082	Mcf/d
5	WXP Project Measurement Variance Factor-Fuel Rate Range	2/	0.000% to 1.336%	

Notes:

- 1/ See page 1 of the Application for a Certificate of Public Convenience and Necessity; 80,998 Mcf/d represents the requested increase to certificated capacity on PNGTS's wholly-owned north system from Pittsburg, New Hampshire, to Westbrook, Maine.
- 2/ (Ln. 4 x 365) / (Ln. 2 x Ln. 3 x 365). The low value of the range was calculated utilizing a 75% load factor, and the high value of the range utilized a 100% load factor. PNGTS anticipates an initial WXP Project fuel rate within the reflected range. Subsequent monthly fuel rates will be adjusted in accordance with the PNGTS fuel mechanism as proposed in this certificate application, and are intended to keep Phase II and III WXP Project shippers and PNGTS whole on a rolling monthly basis.

CURRENTLY EFFECTIVE SERVICE RATES APPLICABLE TO OPEN ACCESS, PART 284, RATE SCHEDULES IN FERC GAS TARIFF, EIGHTH REVISED VOLUME NO. 1

FT-1
 RESERVATION
 CHARGES

Pursuant to Sections 3.2(A), 3.3(A), and 3.5 of Rate Schedule FT-1:

	FT-1 RESERVATION CHARGE*		FT-1 RESERVATION CHARGE ADJUSTMENT	
	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
ACCESS AREA	\$/dth		\$/dth	
STX-AAB	11.8550	0.0000	0.3898	0.0000
WLA-AAB	5.6130	0.0000	0.1845	0.0000
ELA-AAB	3.4450	0.0000	0.1132	0.0000
ETX-AAB	3.7060	0.0000	0.1218	0.0000
STX-STX	7.8500	0.0000	0.2581	0.0000
STX-WLA	10.0740	0.0000	0.3312	0.0000
STX-ELA	11.8810	0.0000	0.3906	0.0000
STX-ETX	11.8820	0.0000	0.3906	0.0000
WLA-WLA	3.8320	0.0000	0.1260	0.0000
WLA-ELA	5.6400	0.0000	0.1854	0.0000
WLA-ETX	5.6390	0.0000	0.1854	0.0000
ELA-ELA	3.4720	0.0000	0.1141	0.0000
ETX-ETX	3.7330	0.0000	0.1227	0.0000
ETX-ELA	3.4720	0.0000	0.1141	0.0000
MARKET AREA	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
M1-M1	4.4500	0.0000	0.1463	0.0000
M1-M2	11.0520	0.0000	0.3633	0.0000
M1-M3	21.5010	0.0000	0.7069	0.0000
M2-M2	8.2650	0.0000	0.2717	0.0000
M2-M3	18.7150	0.0000	0.6153	0.0000
M3-M3	12.1140	0.0000	0.3983	0.0000

* Reservation Charge reflects a storage surcharge of: 0.0970

CURRENTLY EFFECTIVE SERVICE RATES APPLICABLE TO OPEN ACCESS, PART 284, RATE SCHEDULES IN FERC GAS TARIFF, EIGHTH REVISED VOLUME NO. 1

FT-1
 USAGE
 CHARGES

ZONE RATE
 \$/dth

Pursuant to Sections 3.2(A) and 3.3(A) of Rate Schedule FT-1:

	STX	WLA	ELA	ETX	M1	M2	M3
USAGE-1 - MAXIMUM							
from STX	0.0248	0.0298	0.0449	0.0449	0.0710	0.1202	0.1890
from WLA	0.0298	0.0125	0.0307	0.0307	0.0568	0.1060	0.1748
from ELA	0.0449	0.0307	0.0252	0.0252	0.0513	0.1005	0.1693
from ETX	0.0449	0.0307	0.0252	0.0252	0.0513	0.1005	0.1693
from M1	0.0710	0.0568	0.0513	0.0513	0.0261	0.0753	0.1441
from M2	0.1202	0.1060	0.1005	0.1005	0.0753	0.0538	0.1255
from M3	0.1890	0.1748	0.1693	0.1693	0.1441	0.1255	0.0754
USAGE-1 - MINIMUM							
from STX	0.0218	0.0267	0.0418	0.0418	0.0648	0.1141	0.1828
from WLA	0.0267	0.0094	0.0276	0.0276	0.0506	0.0999	0.1686
from ELA	0.0418	0.0276	0.0221	0.0221	0.0451	0.0944	0.1631
from ETX	0.0418	0.0276	0.0221	0.0221	0.0451	0.0944	0.1631
from M1	0.0648	0.0506	0.0451	0.0451	0.0230	0.0723	0.1410
from M2	0.1141	0.0999	0.0944	0.0944	0.0723	0.0508	0.1224
from M3	0.1828	0.1686	0.1631	0.1631	0.1410	0.1224	0.0724
USAGE-1 - BACKHAUL MAXIMUM							
from STX	0.0197						
from WLA		0.0090					
from ELA			0.0192				
from ETX				0.0192			
from M1				0.0467	0.0215		
from M2				0.0900	0.0648	0.0464	
from M3						0.1078	0.0645
USAGE-1 - BACKHAUL MINIMUM							
from STX	0.0167						
from WLA		0.0059					
from ELA			0.0161				
from ETX				0.0161			
from M1				0.0405	0.0184		
from M2				0.0839	0.0618	0.0434	
from M3						0.1047	0.0615
USAGE-2	0.2586	0.2586	0.2586	0.2586	0.4310	0.6972	1.1096

ACA COMMODITY SURCHARGE TO APPLICABLE CUSTOMERS, PURSUANT TO SECTION 15.5 OF THE GENERAL TERMS AND CONDITIONS.

CURRENTLY EFFECTIVE PERCENTAGES FOR APPLICABLE SHRINKAGE FOR ASA RATE SCHEDULES
 Effective During the Winter Period: March 1 through March 31

FOR TRANSPORTATION SERVICE		STX	WLA	ELA	ETX	M1	M2	M3
		(%)	(%)	(%)	(%)	(%)	(%)	(%)
	from STX	1.09	1.25	2.12	2.12	3.08	4.70	5.81
Base	from WLA	0.50	0.50	1.38	1.38	2.34	3.96	5.07
Applicable	from ELA	1.05	1.05	1.05	1.05	2.01	3.63	4.74
Shrinkage	from ETX	1.09	1.05	1.05	1.05	2.01	3.63	4.74
Percentage	from M1	3.08	2.34	2.01	2.01	0.96	2.58	3.69
	from M2	4.70	3.96	3.63	3.63	2.58	1.80	2.90
	from M3	5.81	5.07	4.74	4.74	3.69	2.90	1.28
	from STX	-0.86	-0.98	-1.63	-1.63	-2.33	-3.34	-3.57
Applicable	from WLA	-0.23	-0.40	-1.01	-1.01	-1.71	-2.72	-2.95
Shrinkage	from ELA	-0.56	-0.68	-0.64	-0.64	-1.34	-2.35	-2.58
Adjustment	from ETX	-0.60	-0.68	-0.64	-0.64	-1.34	-2.35	-2.58
Percentage	from M1	-2.33	-1.71	-1.34	-1.34	-0.70	-1.71	-1.94
	from M2	-3.34	-2.72	-2.35	-2.35	-1.71	-1.18	-1.40
	from M3	-3.57	-2.95	-2.58	-2.58	-1.94	-1.40	-0.39
	from STX	0.23	0.27	0.49	0.49	0.75	1.36	2.24
Applicable	from WLA	0.27	0.10	0.37	0.37	0.63	1.24	2.12
Shrinkage	from ELA	0.49	0.37	0.41	0.41	0.67	1.28	2.16
Percentage	from ETX	0.49	0.37	0.41	0.41	0.67	1.28	2.16
	from M1	0.75	0.63	0.67	0.67	0.26	0.87	1.75
	from M2	1.36	1.24	1.28	1.28	0.87	0.62	1.50
	from M3	2.24	2.12	2.16	2.16	1.75	1.50	0.89
FOR TRANSPORTATION SERVICE UNDER CONTRACTS WITH PARTIAL BACKHAUL PATHS		STX	WLA	ELA	ETX	M1	M2	M3
		(%)	(%)	(%)	(%)	(%)	(%)	(%)
	from STX	0.00						
Base	from WLA		0.00					
Applicable	from ELA			0.00				
Shrinkage	from ETX				0.00			
Percentage	from M1				0.00	0.00		
	from M2				0.00	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Adjustment	from ETX				0.41			
Percentage	from M1				0.41	0.00		
	from M2				0.41	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Percentage	from ETX				0.41			
	from M1				0.41	0.00		
	from M2				0.41	0.00	0.00	
	from M3						0.00	0.00
FOR STORAGE SERVICE		Base Applicable Shrinkage Percentage		Applicable Shrinkage Adjustment Percentage		Applicable Shrinkage Percentage		
Monthly W/d (SS,SS-1,X-28)		2.86 %		-1.81 %		1.05 %		
Monthly W/d (FSS,ISS-1)		1.76 %		-1.17 %		0.59 %		
Monthly Injections		1.76 %		-1.17 %		0.59 %		
Monthly Inventory Level		0.08 %		-0.05 %		0.03 %		

Footnote: Due to the bidirectional flow patterns of Pipeline's Access Area Zones, there is no distinction between forwardhauls and backhauls for applicable Shrinkage purposes in the Access Area Zones.

CURRENTLY EFFECTIVE PERCENTAGES FOR APPLICABLE SHRINKAGE FOR ASA RATE SCHEDULES
 Effective During the Winter Period: December 1 through February 28

FOR TRANSPORTATION SERVICE		STX	WLA	ELA	ETX	M1	M2	M3
		(%)	(%)	(%)	(%)	(%)	(%)	(%)
	from STX	1.09	1.25	2.12	2.12	3.08	4.70	5.81
Base	from WLA	0.50	0.50	1.38	1.38	2.34	3.96	5.07
Applicable	from ELA	1.05	1.05	1.05	1.05	2.01	3.63	4.74
Shrinkage	from ETX	1.09	1.05	1.05	1.05	2.01	3.63	4.74
Percentage	from M1	3.08	2.34	2.01	2.01	0.96	2.58	3.69
	from M2	4.70	3.96	3.63	3.63	2.58	1.80	2.90
	from M3	5.81	5.07	4.74	4.74	3.69	2.90	1.28
	from STX	-0.45	-0.56	-1.15	-1.15	-1.38	-2.39	-2.63
Applicable	from WLA	0.19	0.02	-0.53	-0.53	-0.76	-1.77	-2.01
Shrinkage	from ELA	-0.08	-0.20	-0.17	-0.17	-0.40	-1.41	-1.65
Adjustment	from ETX	-0.12	-0.20	-0.17	-0.17	-0.40	-1.41	-1.65
Percentage	from M1	-1.38	-0.76	-0.40	-0.40	-0.23	-1.24	-1.48
	from M2	-2.39	-1.77	-1.41	-1.41	-1.24	-0.71	-0.93
	from M3	-2.63	-2.01	-1.65	-1.65	-1.48	-0.93	0.08
	from STX	0.64	0.69	0.97	0.97	1.70	2.31	3.18
Applicable	from WLA	0.69	0.52	0.85	0.85	1.58	2.19	3.06
Shrinkage	from ELA	0.97	0.85	0.88	0.88	1.61	2.22	3.09
Percentage	from ETX	0.97	0.85	0.88	0.88	1.61	2.22	3.09
	from M1	1.70	1.58	1.61	1.61	0.73	1.34	2.21
	from M2	2.31	2.19	2.22	2.22	1.34	1.09	1.97
	from M3	3.18	3.06	3.09	3.09	2.21	1.97	1.36
FOR TRANSPORTATION SERVICE UNDER CONTRACTS WITH PARTIAL BACKHAUL PATHS		STX	WLA	ELA	ETX	M1	M2	M3
		(%)	(%)	(%)	(%)	(%)	(%)	(%)
	from STX	0.00						
Base	from WLA		0.00					
Applicable	from ELA			0.00				
Shrinkage	from ETX				0.00			
Percentage	from M1				0.00	0.00		
	from M2				0.00	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Adjustment	from ETX				0.88			
Percentage	from M1				0.88	0.00		
	from M2				0.88	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Percentage	from ETX				0.88			
	from M1				0.88	0.00		
	from M2				0.88	0.00	0.00	
	from M3						0.00	0.00
FOR STORAGE SERVICE		Base Applicable Shrinkage Percentage		Applicable Shrinkage Adjustment Percentage		Applicable Shrinkage Percentage		
Monthly W/d (SS,SS-1,X-28)		2.86 %		-1.34 %		1.52 %		
Monthly W/d (FSS,ISS-1)		1.76 %		-1.17 %		0.59 %		
Monthly Injections		1.76 %		-1.17 %		0.59 %		
Monthly Inventory Level		0.08 %		-0.05 %		0.03 %		

Footnote: Due to the bidirectional flow patterns of Pipeline's Access Area Zones, there is no distinction between forwardhauls and backhauls for applicable Shrinkage purposes in the Access Area Zones.

CURRENTLY EFFECTIVE PERCENTAGES FOR APPLICABLE SHRINKAGE FOR ASA RATE SCHEDULES								
Effective During the Spring, Summer and Fall Periods: April 1 through November 30								
FOR TRANSPORTATION SERVICE		STX	WLA	ELA	ETX	M1	M2	M3
		(%)	(%)	(%)	(%)	(%)	(%)	(%)
	from STX	0.93	1.04	1.64	1.64	2.49	3.59	4.34
Base	from WLA	0.53	0.53	1.13	1.13	1.98	3.08	3.83
Applicable	from ELA	0.91	0.91	0.91	0.91	1.76	2.86	3.61
Shrinkage	from ETX	0.93	0.91	0.91	0.91	1.76	2.86	3.61
Percentage	from M1	2.49	1.98	1.76	1.76	0.85	1.95	2.70
	from M2	3.59	3.08	2.86	2.86	1.95	1.42	2.17
	from M3	4.34	3.83	3.61	3.61	2.70	2.17	1.07
	from STX	-0.79	-0.88	-1.35	-1.35	-2.05	-2.78	-3.01
Applicable	from WLA	-0.37	-0.47	-0.92	-0.92	-1.62	-2.35	-2.58
Shrinkage	from ELA	-0.62	-0.70	-0.67	-0.67	-1.37	-2.10	-2.33
Adjustment	from ETX	-0.64	-0.70	-0.67	-0.67	-1.37	-2.10	-2.33
Percentage	from M1	-2.05	-1.62	-1.37	-1.37	-0.70	-1.43	-1.66
	from M2	-2.78	-2.35	-2.10	-2.10	-1.43	-1.06	-1.28
	from M3	-3.01	-2.58	-2.33	-2.33	-1.66	-1.28	-0.54
	from STX	0.14	0.16	0.29	0.29	0.44	0.81	1.33
Applicable	from WLA	0.16	0.06	0.21	0.21	0.36	0.73	1.25
Shrinkage	from ELA	0.29	0.21	0.24	0.24	0.39	0.76	1.28
Percentage	from ETX	0.29	0.21	0.24	0.24	0.39	0.76	1.28
	from M1	0.44	0.36	0.39	0.39	0.15	0.52	1.04
	from M2	0.81	0.73	0.76	0.76	0.52	0.36	0.89
	from M3	1.33	1.25	1.28	1.28	1.04	0.89	0.53
FOR TRANSPORTATION SERVICE UNDER CONTRACTS WITH PARTIAL BACKHAUL PATHS		STX	WLA	ELA	ETX	M1	M2	M3
		(%)	(%)	(%)	(%)	(%)	(%)	(%)
	from STX	0.00						
Base	from WLA		0.00					
Applicable	from ELA			0.00				
Shrinkage	from ETX				0.00			
Percentage	from M1				0.00	0.00		
	from M2				0.00	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Adjustment	from ETX				0.24			
Percentage	from M1				0.24	0.00		
	from M2				0.24	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Percentage	from ETX				0.24			
	from M1				0.24	0.00		
	from M2				0.24	0.00	0.00	
	from M3						0.00	0.00
FOR STORAGE SERVICE		Base Applicable Shrinkage Percentage		Applicable Shrinkage Adjustment Percentage		Applicable Shrinkage Percentage		
Monthly W/d (SS,SS-1,X-28)		2.70 %		-1.84 %		0.86 %		
Monthly W/d (FSS,ISS-1)		1.76 %		-1.17 %		0.59 %		
Monthly Injections		1.76 %		-1.17 %		0.59 %		
Monthly Inventory Level		0.08 %		-0.05 %		0.03 %		

Footnote: Due to the bidirectional flow patterns of Pipeline's Access Area Zones, there is no distinction between forwardhauls and backhauls for applicable Shrinkage purposes in the Access Area Zones.

RATES PER DEKATHERM

FIRM TRANSPORTATION RATES
 RATE SCHEDULE FOR FT-A

Base Reservation Rates	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$4.7485		\$9.92300	\$13.3478	\$13.5840	\$14.9261	\$15.8434	\$19.8779
	L		\$4.2156						
	1	\$7.1485		\$6.8524	\$9.1192	\$12.9182	\$12.7224	\$14.3480	\$17.6429
	2	\$13.3479		\$9.0644	\$4.7144	\$4.4071	\$5.6390	\$7.7558	\$10.0118
	3	\$13.5840		\$7.1799	\$4.7525	\$3.4286	\$5.2666	\$9.5251	\$11.0065
	4	\$17.2471		\$15.9003	\$6.0594	\$9.2085	\$4.5075	\$4.8747	\$6.9640
	5	\$20.5647		\$14.4505	\$6.3563	\$7.6911	\$5.0074	\$4.6970	\$6.1147
	6	\$23.7895		\$16.5974	\$11.4230	\$12.5841	\$8.8889	\$4.6763	\$4.0480

Daily Base Reservation Rate 1/	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$0.1561		\$0.3262	\$0.4388	\$0.4466	\$0.4907	\$0.5209	\$0.6535
	L		\$0.1386						
	1	\$0.2350		\$0.2253	\$0.2998	\$0.4247	\$0.4183	\$0.4717	\$0.5800
	2	\$0.4388		\$0.2980	\$0.1550	\$0.1449	\$0.1854	\$0.2550	\$0.3292
	3	\$0.4466		\$0.2361	\$0.1562	\$0.1127	\$0.1731	\$0.3132	\$0.3619
	4	\$0.5670		\$0.5227	\$0.1992	\$0.3027	\$0.1482	\$0.1603	\$0.2290
	5	\$0.6761		\$0.4751	\$0.2090	\$0.2529	\$0.1646	\$0.1544	\$0.2010
	6	\$0.7821		\$0.5457	\$0.3756	\$0.4137	\$0.2922	\$0.1537	\$0.1331

Maximum Reservation Rates 2 /, 3 /	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$4.7973		\$9.9718	\$13.3966	\$13.6328	\$14.9749	\$15.8922	\$19.9267
	L		\$4.2644						
	1	\$7.1973		\$6.9012	\$9.1680	\$12.9670	\$12.7712	\$14.3968	\$17.6917
	2	\$13.3967		\$9.1132	\$4.7632	\$4.4559	\$5.6878	\$7.8046	\$10.0606
	3	\$13.6328		\$7.2287	\$4.8013	\$3.4774	\$5.3154	\$9.5739	\$11.0553
	4	\$17.2959		\$15.9491	\$6.1082	\$9.2573	\$4.5563	\$4.9235	\$7.0128
	5	\$20.6135		\$14.4993	\$6.4051	\$7.7399	\$5.0562	\$4.7458	\$6.1635
	6	\$23.8383		\$16.6462	\$11.4718	\$12.6329	\$8.9377	\$4.7251	\$4.0968

Notes:

- 1/ Applicable to demand charge credits and secondary points under discounted rate agreements.
- 2/ Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of **\$0.0000**.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of **\$0.0488**.

RATES PER DEKATHERM

COMMODITY RATES
 RATE SCHEDULE FOR FT-A

Base
 Commodity Rates

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.2286	\$0.2182	\$0.2597
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.1944	\$0.1983	\$0.2264
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0629	\$0.1009	\$0.1118
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0841	\$0.1164	\$0.1271
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0389	\$0.0550	\$0.0892
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0548	\$0.0543	\$0.0674
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0843	\$0.0457	\$0.0277

Minimum
 Commodity Rates 1/, 2/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.0250	\$0.0284	\$0.0346
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.0210	\$0.0256	\$0.0300
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0056	\$0.0100	\$0.0143
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0081	\$0.0118	\$0.0163
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0028	\$0.0046	\$0.0092
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0046	\$0.0046	\$0.0066
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0086	\$0.0041	\$0.0020

Maximum
 Commodity Rates 1/, 2/, 3/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0051		\$0.0134	\$0.0196	\$0.0238	\$0.2305	\$0.2201	\$0.2616
L		\$0.0031						
1	\$0.0061		\$0.0100	\$0.0166	\$0.0198	\$0.1963	\$0.2002	\$0.2283
2	\$0.0186		\$0.0106	\$0.0031	\$0.0047	\$0.0648	\$0.1028	\$0.1137
3	\$0.0226		\$0.0188	\$0.0045	\$0.0021	\$0.0860	\$0.1183	\$0.1290
4	\$0.0269		\$0.0224	\$0.0106	\$0.0124	\$0.0408	\$0.0569	\$0.0911
5	\$0.0303		\$0.0275	\$0.0119	\$0.0137	\$0.0567	\$0.0562	\$0.0693
6	\$0.0365		\$0.0319	\$0.0162	\$0.0182	\$0.0862	\$0.0476	\$0.0296

Notes:

- 1/ Rates stated above exclude the ACA Surcharge as revised annually and posted on the FERC website at <http://www.ferc.gov> on the Annual Charges page of the Natural Gas section. The ACA Surcharge is incorporated by reference into Transporter's Tariff and shall apply to all transportation under this Rate Schedule as provided in Article XXIV of the General Terms and Conditions.
- 2/ The applicable F&LR's and EPCR's, determined pursuant to Article XXXVII of the General Terms and Conditions, are listed on Sheet No. 32.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of **\$0.0019.**

FUEL AND EPCR

F&LR 1/, 2/, 3/, 4/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	0.61%		1.85%	2.81%	3.45%	4.14%	4.68%	5.31%
L		0.32%						
1	0.77%		1.35%	2.31%	2.85%	3.39%	4.08%	4.64%
2	2.74%		1.44%	0.31%	0.56%	1.02%	1.74%	2.32%
3	3.35%		2.78%	0.56%	0.17%	1.41%	2.00%	2.66%
4	3.99%		3.15%	1.43%	1.70%	0.58%	0.88%	1.49%
5	4.68%		4.08%	1.74%	2.03%	0.87%	0.86%	1.09%
6	5.58%		4.85%	2.32%	2.66%	1.40%	0.69%	0.36%

Broad Run Expansion Project – Market Component (Z3-Z1): 5/ 6.21%

EPCR 3/, 4/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0034		\$0.0132	\$0.0204	\$0.0254	\$0.0307	\$0.0349	\$0.0419
L		\$0.0011						
1	\$0.0046		\$0.0093	\$0.0169	\$0.0207	\$0.0257	\$0.0315	\$0.0362
2	\$0.0204		\$0.0099	\$0.0011	\$0.0030	\$0.0067	\$0.0122	\$0.0167
3	\$0.0254		\$0.0207	\$0.0030	\$0.0000	\$0.0097	\$0.0144	\$0.0192
4	\$0.0307		\$0.0238	\$0.0099	\$0.0120	\$0.0032	\$0.0055	\$0.0104
5	\$0.0349		\$0.0315	\$0.0122	\$0.0144	\$0.0055	\$0.0054	\$0.0072
6	\$0.0419		\$0.0362	\$0.0167	\$0.0192	\$0.0097	\$0.0041	\$0.0015

Broad Run Expansion Project – Market Component (Z3-Z1): 5/ \$0.0515

- 1/ Included in the above F&LR is the Losses component of the F&LR equal to 0.13%.
- 2/ For service that is rendered entirely by displacement and for gas scheduled and allocated for receipt at the Dracut, Massachusetts receipt point, Shipper shall render only the quantity of gas associated with Losses of 0.13%.
- 3/ The F&LR's and EPCR's listed above are applicable to FT-A, FT-BH, FT-G, FT-GS, and IT.
- 4/ The F&LR's and EPCR's determined pursuant to Article XXXVII of the General Terms and Conditions.
- 5/ The incremental F&LR and EPCR set forth above are applicable to a Shipper(s) utilizing capacity on the Broad Run Expansion Project – Market Component facilities, from any receipt point(s) to any delivery point(s) located on the project's transportation path. Any service provided to a Shipper(s) outside the project's transportation path shall be subject to the greater of the incremental F&LR and EPCR for the project or the applicable F&LR and EPCR for the applicable receipt(s) and delivery point(s) as shown in the rate matrices above. Included in the above F&LR is the Losses component of the F&LR equal to 0.13%.

RATES PER DEKATHERM

FIRM STORAGE SERVICE
 RATE SCHEDULE FS

Rate Schedule and Rate	Base Tariff Rate	Max Tariff Rate	F&LR 2/, 3/	EPCR 2/
FIRM STORAGE SERVICE (FS) - PRODUCTION AREA				
Deliverability Rate	\$1.7426	\$1.7426 1/		
Space Rate	\$0.0177	\$0.0177 1/		
Injection Rate	\$0.0073	\$0.0073	1.62%	\$0.0000
Withdrawal Rate	\$0.0073	\$0.0073		
Overrun Rate	\$0.2091	\$0.2091 1/		
FIRM STORAGE SERVICE (FS) - MARKET AREA				
Deliverability Rate	\$1.2801	\$1.2801 1/		
Space Rate	\$0.0175	\$0.0175 1/		
Injection Rate	\$0.0087	\$0.0087	1.62%	\$0.0000
Withdrawal Rate	\$0.0087	\$0.0087		
Overrun Rate	\$0.1537	\$0.1537 1/		

Notes:

- 1/ Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of \$0.000.
- 2/ The F&LR's and EPCR's determined pursuant to Article XXXVII of the General Terms and Conditions.
- 3/ The applicable F&LR pursuant to Article XXXVII of the General Terms and Conditions, associated with Losses is equal to 0.03%.

Tennessee Gas Pipeline Company, L.L.C.
Settlement Rates effective November 1, 2022 - Base Reservation and Commodity
 13.5 % Rate Reduction from the Appendix A-0 Rates

Line
No.**General System Transportation Services****Rate Schedule FT-A, FT-G, NET, NET-284****Reservation**

		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
1	Zone 0	\$4.6943		\$9.8096	\$13.1952	\$13.4288	\$14.7555	\$15.6623	\$19.6507
2	Zone L		\$4.1674						
3	Zone 1	\$7.0668		\$6.7741	\$9.0149	\$12.7706	\$12.5770	\$14.1840	\$17.4413
4	Zone 2	\$13.1953		\$8.9608	\$4.6605	\$4.3567	\$5.5746	\$7.6672	\$9.8974
5	Zone 3	\$13.4288		\$7.0978	\$4.6982	\$3.3894	\$5.2064	\$9.4162	\$10.8807
6	Zone 4	\$17.0500		\$15.7186	\$5.9901	\$9.1033	\$4.4560	\$4.8190	\$6.8844
7	Zone 5	\$20.3297		\$14.2853	\$6.2836	\$7.6032	\$4.9501	\$4.6433	\$6.0448
8	Zone 6	\$23.5176		\$16.4078	\$11.2924	\$12.4403	\$8.7873	\$4.6228	\$4.0017

Commodity

		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
9	Zone 0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.2260	\$0.2157	\$0.2567
10	Zone L		\$0.0012						
11	Zone 1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.1922	\$0.1960	\$0.2238
12	Zone 2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0622	\$0.0997	\$0.1105
13	Zone 3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0831	\$0.1150	\$0.1256
14	Zone 4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0385	\$0.0544	\$0.0881
15	Zone 5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0541	\$0.0536	\$0.0666
16	Zone 6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0833	\$0.0452	\$0.0274

Min. Commodity**Delivery Zone**

		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
17	Zone 0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.0250	\$0.0284	\$0.0346
18	Zone L		\$0.0012						
19	Zone 1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.0210	\$0.0256	\$0.0300
20	Zone 2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0056	\$0.0100	\$0.0143
21	Zone 3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0081	\$0.0118	\$0.0163
22	Zone 4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0028	\$0.0046	\$0.0092
23	Zone 5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0046	\$0.0046	\$0.0066
24	Zone 6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0086	\$0.0041	\$0.0020

Rate Schedule FT-GS

		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
25	Zone 0	\$0.2598		\$0.5469	\$0.7376	\$0.7538	\$1.0346	\$1.0739	\$1.3335
26	Zone L		\$0.2293						
27	Zone 1	\$0.3906		\$0.3778	\$0.5060	\$0.7145	\$0.8813	\$0.9732	\$1.1794
28	Zone 2	\$0.7368		\$0.4982	\$0.2564	\$0.2411	\$0.3676	\$0.5200	\$0.6528
29	Zone 3	\$0.7528		\$0.4028	\$0.2596	\$0.1859	\$0.3685	\$0.6310	\$0.7218
30	Zone 4	\$0.9548		\$0.8781	\$0.3354	\$0.5074	\$0.2826	\$0.3184	\$0.4655
31	Zone 5	\$1.1373		\$0.8038	\$0.3526	\$0.4264	\$0.3254	\$0.3082	\$0.3978
32	Zone 6	\$1.3171		\$0.9236	\$0.6305	\$0.6950	\$0.5648	\$0.2983	\$0.2467

Rate Schedule IT, PTR and FT Overrun

		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
33	Zone 0	\$0.1570		\$0.3320	\$0.4483	\$0.4595	\$0.7111	\$0.7306	\$0.9028
34	Zone L		\$0.1381						
35	Zone 1	\$0.2358		\$0.2293	\$0.3085	\$0.4346	\$0.6057	\$0.6623	\$0.7971
36	Zone 2	\$0.4476		\$0.3017	\$0.1542	\$0.1455	\$0.2455	\$0.3519	\$0.4360
37	Zone 3	\$0.4585		\$0.2473	\$0.1567	\$0.1116	\$0.2543	\$0.4247	\$0.4833
38	Zone 4	\$0.5810		\$0.5336	\$0.2041	\$0.3079	\$0.1849	\$0.2129	\$0.3145
39	Zone 5	\$0.6917		\$0.4907	\$0.2147	\$0.2597	\$0.2169	\$0.2063	\$0.2655
40	Zone 6	\$0.8016		\$0.5641	\$0.3830	\$0.4224	\$0.3722	\$0.1970	\$0.1590

Tennessee Gas Pipeline Company, L.L.C.
Settlement Rates effective November 1, 2022 - Base Reservation and Commodity
13.5 % Rate Reduction from the Appendix A-0 Rates

Line No.

Rate Schedule FT-BH

Reservation

		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
1	Zone 0	\$2.3471							
2	Zone L		\$2.0837						
3	Zone 1	\$3.5334		\$3.3870					
4	Zone 2	\$6.5977		\$4.4804	\$2.3302				
5	Zone 3	\$6.7144		\$3.5490	\$2.3492	\$1.6947			
6	Zone 4	\$8.5250		\$7.8593	\$2.9951	\$4.5517	\$2.2279		
7	Zone 5	\$10.1648		\$7.1427	\$3.1418	\$3.8016	\$2.4750	\$2.3217	
8	Zone 6	\$11.7587		\$8.2038	\$5.6463	\$6.2200	\$4.3937	\$2.3115	\$2.0009

Commodity

		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
9	Zone 0	\$0.0413							
10	Zone L		\$0.0353						
11	Zone 1	\$0.0616		\$0.0624					
12	Zone 2	\$0.1222		\$0.0808	\$0.0393				
13	Zone 3	\$0.1274		\$0.0722	\$0.0407	\$0.0280			
14	Zone 4	\$0.1607		\$0.1460	\$0.0564	\$0.0834	\$0.0751		
15	Zone 5	\$0.1905		\$0.1385	\$0.0599	\$0.0721	\$0.0948	\$0.0919	
16	Zone 6	\$0.2218		\$0.1595	\$0.1045	\$0.1157	\$0.1555	\$0.0830	\$0.0603

Rate Schedule FT-A EDS/ERS (Extended Delivery/Receipt)

Reservation

		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
17	Zone 0			\$0.3226	\$0.4338	\$0.4415	\$0.4851	\$0.5149	\$0.6461
18	Zone L								
19	Zone 1	\$0.2323			\$0.2964	\$0.4199	\$0.4135	\$0.4663	\$0.5733
20	Zone 2	\$0.4338		\$0.2946		\$0.1432	\$0.1833	\$0.2521	\$0.3254
21	Zone 3	\$0.4415		\$0.2334	\$0.1545		\$0.1712	\$0.3097	\$0.3577
22	Zone 4	\$0.5605		\$0.5168	\$0.1969	\$0.2993		\$0.1585	\$0.2263
23	Zone 5	\$0.6683		\$0.4697	\$0.2065	\$0.2500	\$0.1628		\$0.1988
24	Zone 6	\$0.7732		\$0.5394	\$0.3713	\$0.4090	\$0.2888	\$0.1520	

Rate Schedule PAL

Commodity Overrun

25	PAL (Daily)	\$0.3361	\$0.3361
26	PAL (Term)	\$0.3361	\$0.3361

Incremental Transportation Services

		Reservation	Commodity	Overrun	Min. Comm.	
27	Stagecoach - CP00-65	FT-A	\$3.1595	\$0.0000	\$0.1039	\$0.0000
28	ConneXion NY/NJ - CP05-355	FT-A	\$8.8797	\$0.0000	\$0.2919	\$0.0000
29	Concord - CP08-65	FT-A	\$10.4720	\$0.0000	\$0.3443	\$0.0000
30	Tewksbury - CP04-60	FT-IL	\$5.2899	\$0.0000	\$0.1740	\$0.0000
31	300 Line Market - CP09-444	FT-A	\$22.1379	\$0.0000	\$0.7278	\$0.0000
32	NSD - CP11-30	FT-A	\$5.3595	\$0.0000	\$0.1762	\$0.0000
33	Northampton - CP11-36	FT-A	\$23.8826	\$0.0000	\$0.7852	\$0.0000
34	NEUP - CP11-161	FT-A	\$7.6505	\$0.0000	\$0.2515	\$0.0000
35	Niagara Expansion - CP14-88	FT-A	\$8.6167	\$0.0000	\$0.2833	\$0.0000
36	Connecticut Expansion - CP14-529	FT-A	\$16.7541	\$0.0666	\$0.6174	\$0.0066
37	Broad Run Expansion Project - CP15-77	FT-A	\$25.8763	\$0.0336	\$0.8798	\$0.0336
38	Susquehanna West Project - CP15-148	FT-A	\$14.8083	\$0.0385	\$0.5253	\$0.0028
39	Triad Expansion Project - CP 15-520	FT-A	\$6.5128	\$0.0385	\$0.2526	\$0.0028
40	Orion Project - CP 16-4	FT-A	\$14.2905	\$0.0385	\$0.5083	\$0.0028

Storage Services

		Deliverability	Space	Inj/With	Overrun
41	FS - PA [1]	\$1.7226	\$0.0175	\$0.0073	\$0.2067
42	FS - MA	\$1.2655	\$0.0173	\$0.0087	\$0.1519
43	IS - PA		\$0.0863	\$0.0073	
44	IS - MA		\$0.0695	\$0.0087	

Notes:

[1] The Rate Schedule FS-PA Rates set forth herein do not include the impact of the Bear Creek Proceeding, if any.

Winter Period Re-Entry Surcharge Calculation
(Applicable to Capacity Assigned Customers Returning to Sales Service)

Line	Item	HLF (50, 51, 52)	LLF (40, 41, 42)	Weighted Average	Reference
1	Winter Demand Cost of Gas Rate	\$ 0.1995	\$ 0.3081	\$ 0.2913	No Change from Page 3 - Lines 79 and 99 of CAK-13
2	Winter Commodity Cost of Gas Rate	\$ 0.9082	\$ 0.8888	\$ 0.8918	No Change from Page 3 - Lines 85 and 105 of CAK-13
3	Winter Indirect Cost of Gas	\$ 0.0236	\$ 0.0236	\$ 0.0236	Prior Period Over Collection removed from Page 3, Lines 87 and 107 of CAK-13
4	Winter Cost of Gas Rate (Exclusive of Credits)	\$ 1.1313	\$ 1.2205	\$ 1.2067	Sum Lines 1 through 3
5	Winter Cost of Gas Rate for Incumbent Sales Customers	\$ 1.0604	\$ 1.1496	\$ 1.1358	Page 3 - Lines 72 and 92 of CAK-13
6	Winter Re-Entry Surcharge	\$ 0.0709	\$ 0.0709	\$ 0.0709	Positive Difference between Line 4 and Line 5
7	Projected Sales (therms)	2,898,272	15,802,392	18,700,664	Page 3 - Lines 85 and 105 of Summary

Summer Period Re-Entry Surcharge & Conversion Surcharge Calculation
(Applicable to Capacity Assigned & Capacity Exempt Customers Returning to Sales Service)

Line	Item	HLF (50, 51, 52)	LLF (40, 41, 42)	Weighted Average	Reference
8	Summer Demand Cost of Gas Rate	\$ 0.1099	\$ 0.2151	\$ 0.1988	No Change from Page 7 - Lines 188 and 208 of CAK-13
9	Summer Commodity Cost of Gas Rate	\$ 0.4989	\$ 0.4989	\$ 0.4989	No Change from Page 7 - Lines 194 and 214 of Summary
10	Summer Indirect Cost of Gas	\$ 0.0254	\$ 0.0254	\$ 0.0254	No Change from Page 7 - Lines 196 and 216 of Summary
11	Summer Cost of Gas Rate (Exclusive of Credits)	\$ 0.6342	\$ 0.7394	\$ 0.7231	Sum Lines 8 through 10
12	Summer Cost of Gas Rate for Incumbent Sales Customers	\$ 0.6342	\$ 0.7394	\$ 0.7231	Page 7 - Lines 181 and 201 of CAK-13
13	Summer Re-Entry Surcharge	\$ -	\$ -	\$ -	Positive Difference between Line 11 and Line 12
14	Projected Sales (therms)	2,206,001	2,770,809	4,976,810	Page 7 - Lines 193 and 213 of CAK-13

Winter Period Conversion Surcharge Calculation
(Applicable to Capacity Exempt Customers Returning to Sales Service)

Line	Item	HLF (50, 51, 52)	LLF (40, 41, 42)	
1	LLF Winter Demand Cost of Gas Rate	\$ 0.3081	\$ 0.3081	No Change from Page 3 - Lines 79 and 99 of CAK-13
2	LLF Winter Commodity Cost of Gas Rate	\$ 0.8888	\$ 0.8888	No Change from Page 3 - Lines 85 and 105 of CAK-13
3	LLF Winter Indirect Cost of Gas	\$ 0.0236	\$ 0.0236	Prior Period Over Collection removed from Page 3, Lines 87 and 107 of CAK-13
4	Floor Price (LLF Winter Cost of Gas Rate, Exclusive of Credits)	\$ 1.2205	\$ 1.2205	Sum Lines 1 through 3.
5	Total Incremental Cost	\$ 2.7025	\$ 2.7025	See Line 15 of Incremental Commodity Price Worksheet
6	Total Conversion Rate	\$ 2.7025	\$ 2.7025	Maximum of Line 4 and Line 5
7	Winter Gas Adjustment Factor for Incumbent Sales Customers	\$ 1.0604	\$ 1.1496	Page 3 - Lines 85 and 105 of Summary
8	Conversion Surcharge	\$ 1.6421	\$ 1.5529	Positive Difference between Line 6 and Line 7

Incremental Commodity Price Worksheet
Based on 9/7/2022 NYMEX and Algonquin Basis Settlement Prices

Line	Month	9/7/2022 NYMEX Settlement	Projected PNGTS Delivered Basis (9/7/2022 Algonquin Basis plus \$0.75 per Dth)	Projected FOM Index	Projected Non-Capacity Assigned Delivery Service Loads	Comments
1	Nov-22	\$ 7.901	\$ 6.015	\$ 13.916	220,579	
2	Dec-22	\$ 8.035	\$ 22.390	\$ 30.425	223,362	
3	Jan-23	\$ 8.115	\$ 33.423	\$ 41.538	238,274	
4	Feb-23	\$ 7.818	\$ 32.763	\$ 40.581	225,418	
5	Mar-23	\$ 6.705	\$ 10.908	\$ 17.613	235,373	
6	Apr-23	\$ 5.352	\$ 2.035	\$ 7.387	208,662	
7	Winter Period Weighed Average Baseload Price (\$/Dth)			\$ 25.596	1,351,668	Average, Weighted by Loads, Lines 1 through 6
8	Load Shape Price Factor			1.034		See Load Shape Price Factor Worksheet
9	Winter Period Incremental Load Shape Price (\$/Dth)			\$ 26.466		Line 7 times Line 8
10	Granite Fuel			0.35%		Granite Tariff
11	Granite Variable Transport (\$/Dth)			\$ 0.2039		Granite Tariff (IT Daily Rate plus ACA)
12	Northern City-Gate Price (\$/Dth)			\$ 26.763		Line 9 times (1 plus Line 10) plus Line 11
13	New Hampshire Division City-Gate Sendout to Sales Ratio			1.0098		See Att 2 to Sch 10B
14	Northern Retail Meter Price (\$/Dth)			\$ 27.025		Line 12 times Line 13
15	Northern Retail Meter Price (\$/therm)			\$ 2.7025		Line 14 divided by 10

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Nov-21	11/1/2021	7,747	5,075	12,822	7,747	-	7,747	\$ 4.905	\$ 37,999
Nov-21	11/2/2021	8,208	5,480	13,688	8,208	-	8,208	\$ 5.220	\$ 42,846
Nov-21	11/3/2021	8,807	6,672	15,479	8,807	-	8,807	\$ 5.715	\$ 50,332
Nov-21	11/4/2021	8,370	6,728	15,098	8,370	-	8,370	\$ 6.020	\$ 50,387
Nov-21	11/5/2021	8,202	6,786	14,988	8,202	-	8,202	\$ 5.750	\$ 47,162
Nov-21	11/6/2021	6,075	6,250	12,325	6,075	-	6,075	\$ 5.210	\$ 31,651
Nov-21	11/7/2021	5,728	6,078	11,806	5,728	-	5,728	\$ 5.210	\$ 29,843
Nov-21	11/8/2021	7,946	5,706	13,652	7,946	-	7,946	\$ 5.210	\$ 41,399
Nov-21	11/9/2021	7,659	4,385	12,044	7,659	-	7,659	\$ 4.920	\$ 37,682
Nov-21	11/10/2021	8,130	6,319	14,449	8,130	-	8,130	\$ 4.605	\$ 37,439
Nov-21	11/11/2021	7,419	5,269	12,688	7,419	-	7,419	\$ 4.135	\$ 30,678
Nov-21	11/12/2021	6,777	5,076	11,853	6,777	-	6,777	\$ 4.215	\$ 28,565
Nov-21	11/13/2021	6,196	5,240	11,436	6,196	-	6,196	\$ 5.170	\$ 32,033
Nov-21	11/14/2021	5,062	5,611	10,673	5,062	-	5,062	\$ 5.170	\$ 26,171
Nov-21	11/15/2021	7,722	7,068	14,790	7,722	-	7,722	\$ 5.170	\$ 39,923
Nov-21	11/16/2021	8,675	7,231	15,906	8,675	-	8,675	\$ 5.070	\$ 43,982
Nov-21	11/17/2021	8,025	6,341	14,366	8,025	-	8,025	\$ 4.900	\$ 39,323
Nov-21	11/18/2021	7,215	4,943	12,158	7,215	-	7,215	\$ 4.555	\$ 32,864
Nov-21	11/19/2021	8,253	6,747	15,000	8,253	-	8,253	\$ 5.035	\$ 41,554
Nov-21	11/20/2021	7,674	6,383	14,057	7,674	-	7,674	\$ 4.920	\$ 37,756
Nov-21	11/21/2021	4,879	5,187	10,066	4,879	-	4,879	\$ 4.920	\$ 24,005
Nov-21	11/22/2021	7,936	7,081	15,017	7,936	-	7,936	\$ 4.920	\$ 39,045
Nov-21	11/23/2021	9,152	8,841	17,993	9,152	-	9,152	\$ 9.640	\$ 88,225
Nov-21	11/24/2021	6,701	7,737	14,438	6,701	-	6,701	\$ 5.560	\$ 37,258
Nov-21	11/25/2021	4,122	5,507	9,629	4,122	-	4,122	\$ 6.885	\$ 28,380
Nov-21	11/26/2021	4,688	7,023	11,711	4,688	-	4,688	\$ 6.885	\$ 32,277
Nov-21	11/27/2021	5,370	8,055	13,425	5,370	-	5,370	\$ 6.885	\$ 36,972
Nov-21	11/28/2021	6,146	7,534	13,680	6,146	-	6,146	\$ 6.885	\$ 42,315
Nov-21	11/29/2021	9,118	8,653	17,771	9,118	-	9,118	\$ 6.885	\$ 62,777

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Nov-21	11/30/2021	7,822	8,001	15,823	7,822	-	7,822	\$ 8.325	\$ 65,118
Dec-21	12/1/2021	6,307	7,529	13,836	6,307	-	6,307	\$ 7.855	\$ 49,541
Dec-21	12/2/2021	6,030	6,310	12,340	6,030	-	6,030	\$ 4.925	\$ 29,698
Dec-21	12/3/2021	6,370	8,479	14,849	6,370	-	6,370	\$ 7.745	\$ 49,336
Dec-21	12/4/2021	5,568	7,306	12,874	5,568	-	5,568	\$ 4.925	\$ 27,422
Dec-21	12/5/2021	5,329	6,431	11,760	5,329	-	5,329	\$ 4.925	\$ 26,245
Dec-21	12/6/2021	5,504	5,836	11,340	5,504	-	5,504	\$ 4.925	\$ 27,107
Dec-21	12/7/2021	6,865	8,173	15,038	6,865	-	6,865	\$ 7.565	\$ 51,934
Dec-21	12/8/2021	7,116	9,339	16,455	7,116	-	7,116	\$ 12.140	\$ 86,388
Dec-21	12/9/2021	7,254	8,743	15,997	7,254	-	7,254	\$ 8.615	\$ 62,493
Dec-21	12/10/2021	5,968	7,171	13,139	5,968	-	5,968	\$ 3.710	\$ 22,141
Dec-21	12/11/2021	4,591	5,337	9,928	4,591	-	4,591	\$ 3.885	\$ 17,836
Dec-21	12/12/2021	5,480	6,861	12,341	5,480	-	5,480	\$ 3.885	\$ 21,290
Dec-21	12/13/2021	5,956	6,419	12,375	5,956	-	5,956	\$ 3.885	\$ 23,139
Dec-21	12/14/2021	6,508	7,826	14,334	6,508	-	6,508	\$ 4.550	\$ 29,611
Dec-21	12/15/2021	5,679	7,217	12,896	5,679	-	5,679	\$ 3.520	\$ 19,990
Dec-21	12/16/2021	5,452	5,515	10,967	5,452	-	5,452	\$ 3.510	\$ 19,137
Dec-21	12/17/2021	5,123	6,091	11,214	5,123	-	5,123	\$ 3.860	\$ 19,775
Dec-21	12/18/2021	5,105	7,539	12,644	5,105	-	5,105	\$ 28.060	\$ 143,246
Dec-21	12/19/2021	5,966	9,136	15,102	5,966	-	5,966	\$ 28.060	\$ 167,406
Dec-21	12/20/2021	5,851	8,797	14,648	5,851	-	5,851	\$ 28.060	\$ 164,179
Dec-21	12/21/2021	5,708	8,133	13,841	5,708	-	5,708	\$ 7.660	\$ 43,723
Dec-21	12/22/2021	5,703	8,515	14,218	5,703	-	5,703	\$ 9.950	\$ 56,745
Dec-21	12/23/2021	5,692	9,461	15,153	5,692	-	5,692	\$ 14.580	\$ 82,989
Dec-21	12/24/2021	5,245	8,511	13,756	5,245	-	5,245	\$ 7.335	\$ 38,472
Dec-21	12/25/2021	4,767	7,724	12,491	4,767	-	4,767	\$ 7.335	\$ 34,966
Dec-21	12/26/2021	5,226	8,114	13,340	5,226	-	5,226	\$ 7.335	\$ 38,333
Dec-21	12/27/2021	7,936	8,269	16,205	7,936	-	7,936	\$ 7.335	\$ 58,211
Dec-21	12/28/2021	7,734	7,483	15,217	7,734	-	7,734	\$ 4.600	\$ 35,576

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Dec-21	12/29/2021	7,064	7,451	14,515	7,064	-	7,064	\$ 4.115	\$ 29,068
Dec-21	12/30/2021	6,402	7,325	13,727	6,402	-	6,402	\$ 3.780	\$ 24,200
Dec-21	12/31/2021	4,093	6,467	10,560	4,093	-	4,093	\$ 3.780	\$ 15,472
Jan-22	1/1/2022	3,804	6,170	9,974	3,804	-	3,804	\$ 5.490	\$ 20,884
Jan-22	1/2/2022	4,505	7,825	12,330	4,505	-	4,505	\$ 5.490	\$ 24,732
Jan-22	1/3/2022	7,250	10,346	17,596	7,250	-	7,250	\$ 5.490	\$ 39,803
Jan-22	1/4/2022	7,734	9,368	17,102	7,734	-	7,734	\$ 10.570	\$ 81,748
Jan-22	1/5/2022	7,250	7,747	14,997	7,250	-	7,250	\$ 6.950	\$ 50,388
Jan-22	1/6/2022	6,610	8,117	14,727	6,610	-	6,610	\$ 11.560	\$ 76,412
Jan-22	1/7/2022	7,236	9,640	16,876	7,236	-	7,236	\$ 23.115	\$ 167,260
Jan-22	1/8/2022	6,595	9,377	15,972	6,595	-	6,595	\$ 21.960	\$ 144,826
Jan-22	1/9/2022	5,468	8,012	13,480	5,468	-	5,468	\$ 21.960	\$ 120,077
Jan-22	1/10/2022	8,385	11,091	19,476	8,385	-	8,385	\$ 21.960	\$ 184,135
Jan-22	1/11/2022	9,119	12,288	21,407	9,119	-	9,119	\$ 20.120	\$ 183,474
Jan-22	1/12/2022	8,220	8,273	16,493	8,220	-	8,220	\$ 16.330	\$ 134,233
Jan-22	1/13/2022	7,918	7,723	15,641	7,918	-	7,918	\$ 18.960	\$ 150,125
Jan-22	1/14/2022	8,135	10,300	18,435	8,135	-	8,135	\$ 25.000	\$ 203,375
Jan-22	1/15/2022	8,251	12,276	20,527	8,251	-	8,251	\$ 26.940	\$ 222,282
Jan-22	1/16/2022	5,767	8,886	14,653	5,767	-	5,767	\$ 26.940	\$ 155,363
Jan-22	1/17/2022	7,365	7,920	15,285	7,365	-	7,365	\$ 26.940	\$ 198,413
Jan-22	1/18/2022	8,985	11,048	20,033	8,985	-	8,985	\$ 26.940	\$ 242,056
Jan-22	1/19/2022	8,122	7,457	15,579	8,122	-	8,122	\$ 14.985	\$ 121,708
Jan-22	1/20/2022	8,748	10,964	19,712	8,748	-	8,748	\$ 22.690	\$ 198,492
Jan-22	1/21/2022	8,525	11,252	19,777	8,525	-	8,525	\$ 21.635	\$ 184,438
Jan-22	1/22/2022	6,124	10,000	16,124	6,124	-	6,124	\$ 21.595	\$ 132,248
Jan-22	1/23/2022	5,764	8,751	14,515	5,764	-	5,764	\$ 21.595	\$ 124,474
Jan-22	1/24/2022	7,988	8,990	16,978	7,988	-	7,988	\$ 21.595	\$ 172,501
Jan-22	1/25/2022	8,035	9,636	17,671	8,035	-	8,035	\$ 20.730	\$ 166,566
Jan-22	1/26/2022	8,701	11,863	20,564	8,701	-	8,701	\$ 24.615	\$ 214,175

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Jan-22	1/27/2022	8,954	9,775	18,729	8,954	-	8,954	\$ 20.710	\$ 185,437
Jan-22	1/28/2022	8,096	8,763	16,859	8,096	-	8,096	\$ 23.380	\$ 189,284
Jan-22	1/29/2022	5,603	11,809	17,412	5,603	-	5,603	\$ 27.930	\$ 156,492
Jan-22	1/30/2022	6,530	11,244	17,774	6,530	-	6,530	\$ 27.930	\$ 182,383
Jan-22	1/31/2022	8,638	10,676	19,314	8,638	-	8,638	\$ 27.930	\$ 241,259
Feb-22	2/1/2022	9,105	8,774	17,879	9,105	-	9,105	\$ 22.655	\$ 206,274
Feb-22	2/2/2022	7,959	7,198	15,157	7,959	-	7,959	\$ 12.630	\$ 100,522
Feb-22	2/3/2022	7,711	7,191	14,902	7,711	-	7,711	\$ 14.860	\$ 114,585
Feb-22	2/4/2022	8,677	10,004	18,681	8,677	-	8,677	\$ 22.805	\$ 197,879
Feb-22	2/5/2022	8,732	11,083	19,815	8,732	-	8,732	\$ 21.335	\$ 186,297
Feb-22	2/6/2022	8,664	9,508	18,172	8,664	-	8,664	\$ 21.335	\$ 184,846
Feb-22	2/7/2022	7,917	7,718	15,635	7,917	-	7,917	\$ 21.335	\$ 168,909
Feb-22	2/8/2022	8,413	7,992	16,405	8,413	-	8,413	\$ 11.990	\$ 100,872
Feb-22	2/9/2022	8,038	8,024	16,062	8,038	-	8,038	\$ 10.825	\$ 87,011
Feb-22	2/10/2022	7,301	7,173	14,474	7,301	-	7,301	\$ 8.325	\$ 60,781
Feb-22	2/11/2022	6,719	5,915	12,634	6,719	-	6,719	\$ 4.210	\$ 28,287
Feb-22	2/12/2022	6,908	6,654	13,562	6,908	-	6,908	\$ 14.550	\$ 100,511
Feb-22	2/13/2022	6,006	9,557	15,563	6,006	-	6,006	\$ 14.550	\$ 87,387
Feb-22	2/14/2022	9,021	11,766	20,787	9,021	-	9,021	\$ 14.550	\$ 131,256
Feb-22	2/15/2022	9,167	10,562	19,729	9,167	-	9,167	\$ 22.475	\$ 206,028
Feb-22	2/16/2022	7,341	6,812	14,153	7,341	-	7,341	\$ 4.685	\$ 34,393
Feb-22	2/17/2022	6,363	4,104	10,467	6,363	-	6,363	\$ 4.130	\$ 26,279
Feb-22	2/18/2022	8,065	9,263	17,328	8,065	-	8,065	\$ 8.165	\$ 65,851
Feb-22	2/19/2022	8,522	9,573	18,095	8,522	-	8,522	\$ 9.665	\$ 82,365
Feb-22	2/20/2022	6,068	8,464	14,532	6,068	-	6,068	\$ 9.665	\$ 58,647
Feb-22	2/21/2022	7,194	6,822	14,016	7,194	-	7,194	\$ 9.665	\$ 69,530
Feb-22	2/22/2022	6,859	5,783	12,642	6,859	-	6,859	\$ 9.665	\$ 66,292
Feb-22	2/23/2022	6,954	7,880	14,834	6,954	-	6,954	\$ 4.695	\$ 32,649
Feb-22	2/24/2022	8,107	9,357	17,464	8,107	-	8,107	\$ 15.085	\$ 122,294

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Feb-22	2/25/2022	7,689	10,726	18,415	7,689	-	7,689	\$ 23.745	\$ 182,575
Feb-22	2/26/2022	7,217	9,006	16,223	7,217	-	7,217	\$ 23.390	\$ 168,806
Feb-22	2/27/2022	5,968	9,573	15,541	5,968	-	5,968	\$ 23.390	\$ 139,592
Feb-22	2/28/2022	8,372	10,951	19,323	8,372	-	8,372	\$ 23.390	\$ 195,821
Mar-22	3/1/2022	8,227	8,197	16,424	8,227	-	8,227	\$ 7.930	\$ 65,240
Mar-22	3/2/2022	8,112	8,428	16,540	8,112	-	8,112	\$ 5.065	\$ 41,087
Mar-22	3/3/2022	9,120	10,282	19,402	9,120	-	9,120	\$ 21.545	\$ 196,490
Mar-22	3/4/2022	8,705	9,003	17,708	8,705	-	8,705	\$ 15.375	\$ 133,839
Mar-22	3/5/2022	7,283	6,954	14,237	7,283	-	7,283	\$ 4.730	\$ 34,449
Mar-22	3/6/2022	5,543	4,567	10,110	5,543	-	5,543	\$ 4.730	\$ 26,218
Mar-22	3/7/2022	7,112	6,592	13,704	7,112	-	7,112	\$ 4.730	\$ 33,640
Mar-22	3/8/2022	8,160	8,170	16,330	8,160	-	8,160	\$ 4.850	\$ 39,576
Mar-22	3/9/2022	8,096	8,172	16,268	8,096	-	8,096	\$ 5.295	\$ 42,868
Mar-22	3/10/2022	7,806	6,836	14,642	7,806	-	7,806	\$ 4.605	\$ 35,947
Mar-22	3/11/2022	6,697	6,088	12,785	6,697	-	6,697	\$ 4.590	\$ 30,739
Mar-22	3/12/2022	7,042	8,409	15,451	7,042	-	7,042	\$ 7.610	\$ 53,590
Mar-22	3/13/2022	6,062	8,205	14,267	6,062	-	6,062	\$ 7.610	\$ 46,132
Mar-22	3/14/2022	7,860	6,435	14,295	7,860	-	7,860	\$ 7.610	\$ 59,815
Mar-22	3/15/2022	7,885	6,420	14,305	7,885	-	7,885	\$ 4.400	\$ 34,694
Mar-22	3/16/2022	7,360	6,506	13,866	7,360	-	7,360	\$ 3.980	\$ 29,293
Mar-22	3/17/2022	6,943	5,410	12,353	6,943	-	6,943	\$ 4.005	\$ 27,807
Mar-22	3/18/2022	6,497	4,423	10,920	6,497	-	6,497	\$ 4.010	\$ 26,053
Mar-22	3/19/2022	6,157	5,568	11,725	6,157	-	6,157	\$ 4.030	\$ 24,813
Mar-22	3/20/2022	4,892	5,242	10,134	4,892	-	4,892	\$ 4.030	\$ 19,715
Mar-22	3/21/2022	8,035	6,567	14,602	8,035	-	8,035	\$ 4.030	\$ 32,381
Mar-22	3/22/2022	8,194	7,618	15,812	8,194	-	8,194	\$ 4.645	\$ 38,061
Mar-22	3/23/2022	7,606	6,677	14,283	7,606	-	7,606	\$ 4.985	\$ 37,916
Mar-22	3/24/2022	7,575	7,026	14,601	7,575	-	7,575	\$ 4.955	\$ 37,534
Mar-22	3/25/2022	6,686	5,029	11,715	6,686	-	6,686	\$ 4.655	\$ 31,123

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Mar-22	3/26/2022	6,366	5,505	11,871	6,366	-	6,366	\$ 8.615	\$ 54,843
Mar-22	3/27/2022	5,985	7,160	13,145	5,985	-	5,985	\$ 8.615	\$ 51,561
Mar-22	3/28/2022	9,156	9,808	18,964	9,156	-	9,156	\$ 8.615	\$ 78,879
Mar-22	3/29/2022	9,147	8,530	17,677	9,147	-	9,147	\$ 12.725	\$ 116,396
Mar-22	3/30/2022	7,774	6,388	14,162	7,774	-	7,774	\$ 5.525	\$ 42,951
Mar-22	3/31/2022	6,894	4,868	11,762	6,894	-	6,894	\$ 4.790	\$ 33,022
Apr-22	4/1/2022	7,208	5,719	12,927	7,208	-	7,208	\$ 5.465	\$ 39,392
Apr-22	4/2/2022	7,240	5,740	12,980	7,240	-	7,240	\$ 5.375	\$ 38,915
Apr-22	4/3/2022	5,954	6,179	12,133	5,954	-	5,954	\$ 5.375	\$ 32,003
Apr-22	4/4/2022	7,517	5,930	13,447	7,517	-	7,517	\$ 5.375	\$ 40,404
Apr-22	4/5/2022	7,661	5,912	13,573	7,661	-	7,661	\$ 5.515	\$ 42,250
Apr-22	4/6/2022	7,624	6,058	13,682	7,624	-	7,624	\$ 5.875	\$ 44,791
Apr-22	4/7/2022	6,910	6,060	12,970	6,910	-	6,910	\$ 6.385	\$ 44,120
Apr-22	4/8/2022	6,620	5,102	11,722	6,620	-	6,620	\$ 5.890	\$ 38,992
Apr-22	4/9/2022	6,541	5,489	12,030	6,541	-	6,541	\$ 6.085	\$ 39,802
Apr-22	4/10/2022	6,804	5,673	12,477	6,804	-	6,804	\$ 6.085	\$ 41,402
Apr-22	4/11/2022	6,883	4,857	11,740	6,883	-	6,883	\$ 6.085	\$ 41,883
Apr-22	4/12/2022	7,146	4,856	12,002	7,146	-	7,146	\$ 6.000	\$ 42,876
Apr-22	4/13/2022	6,905	5,247	12,152	6,905	-	6,905	\$ 6.135	\$ 42,362
Apr-22	4/14/2022	6,648	5,859	12,507	6,648	-	6,648	\$ 6.285	\$ 41,783
Apr-22	4/15/2022	5,987	3,488	9,475	5,987	-	5,987	\$ 6.935	\$ 41,520
Apr-22	4/16/2022	6,106	4,833	10,939	6,106	-	6,106	\$ 6.935	\$ 42,345
Apr-22	4/17/2022	4,935	5,958	10,893	4,935	-	4,935	\$ 6.935	\$ 34,224
Apr-22	4/18/2022	6,938	6,102	13,040	6,938	-	6,938	\$ 6.935	\$ 48,115
Apr-22	4/19/2022	7,550	6,091	13,641	7,550	-	7,550	\$ 7.790	\$ 58,815
Apr-22	4/20/2022	8,072	6,114	14,186	8,072	-	8,072	\$ 7.745	\$ 62,518
Apr-22	4/21/2022	7,329	4,941	12,270	7,329	-	7,329	\$ 6.665	\$ 48,848
Apr-22	4/22/2022	7,180	4,899	12,079	7,180	-	7,180	\$ 7.290	\$ 52,342
Apr-22	4/23/2022	5,932	4,676	10,608	5,932	-	5,932	\$ 5.950	\$ 35,295

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Apr-22	4/24/2022	4,958	5,177	10,135	4,958	-	4,958	\$ 5.950	\$ 29,500
Apr-22	4/25/2022	7,636	5,540	13,176	7,636	-	7,636	\$ 5.950	\$ 45,434
Apr-22	4/26/2022	7,703	5,029	12,732	7,703	-	7,703	\$ 7.800	\$ 60,083
Apr-22	4/27/2022	7,874	6,286	14,160	7,874	-	7,874	\$ 6.795	\$ 53,504
Apr-22	4/28/2022	8,463	6,031	14,494	8,463	-	8,463	\$ 10.210	\$ 86,407
Apr-22	4/29/2022	7,079	5,256	12,335	7,079	-	7,079	\$ 6.440	\$ 45,589
Apr-22	4/30/2022	5,637	4,764	10,401	5,637	-	5,637	\$ 6.440	\$ 36,302
Winter Period		1,278,915	1,340,484	2,619,399	1,278,915	-	1,278,915	\$ 10.568	\$13,515,702
								Weighted Average Daily Price	\$ 10.568
								Straight Average Daily Price	\$ 10.225
								Load Shape Price Factor	1.034

Month	Projected Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment		
	Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total
Nov-22	220,579	206,384	426,963	220,579	-	220,579
Dec-22	223,362	231,875	455,237	223,362	-	223,362
Jan-23	238,274	258,865	497,139	238,274	-	238,274
Feb-23	225,418	238,518	463,936	225,418	-	225,418
Mar-23	235,373	243,228	478,601	235,373	-	235,373
Apr-23	208,662	198,649	407,311	208,662	-	208,662
Winter	1,351,668	1,377,519	2,729,187	1,351,668	-	1,351,668

REDACTED

Estimated Delivered City-Gate Commodity Costs and Volumes November 2022 through April 2023			
Denotes Confidential Information			
Supply Source	Delivered City-Gate Costs	Delivered City-Gate Volumes	Delivered Cost per Dth
Tennessee Niagara Pipeline Path		332,235	
TGP Zone 4 300 Leg Supply		182,425	
Tennessee Storage		207,347	
Leidy Hub		143,888	
Dawn Supply		2,134,481	
Union Dawn Storage		3,140,246	
Peaking Contract 1		168,181	
Tennessee Zone 0		490,250	
Tennessee Zone L		910,327	
Atlantic Bridge Ramapo Pipeline Path		1,070,796	
Transco Zone 6, non-NY		43,186	
Iroquois Receipts Pipeline Path		944,757	
Texas Eastern Zone M-3		1,827	
Lewiston LNG		40,260	
Peaking Contract 2		59,995	
Total Delivered Commodity Cost	\$87,699,220	9,870,201	\$8.885

REDACTED

Estimated Delivered City-Gate Commodity Costs and Volumes May 2023 through October 2023			
Denotes Confidential Information			
Supply Source	Delivered City-Gate Costs	Delivered City-Gate Volumes	Delivered Cost per Dth
TGP Zone 4 300 Leg Supply		396,232	
Atlantic Bridge Ramapo Pipeline Path		1,088,544	
Tennessee Niagara Pipeline Path		337,742	
Dawn Supply		900,712	
Lewiston LNG		11,040	
Total Delivered Commodity Cost	\$13,507,267	2,734,270	\$4.940

Northern Utilities, Inc.
 Normal Year Weather - Sales Service Load
 Commodity Volumes by Supply Source (Dth)
 November 2022 through October 2023

Description	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter
Pipeline Supplies													
Tennessee Long-Haul Pipeline Path	149,475	320,530	320,530	289,511	320,530	0	0	0	0	0	0	0	1,400,577
Algonquin Receipts Pipeline Path	37,530	38,781	38,781	35,028	38,781	0	0	0	0	0	0	0	188,901
Iroquois Receipts Pipeline Path	187,700	193,957	193,957	175,187	193,957	0	0	0	0	0	0	0	944,757
Tennessee Niagara Pipeline Path	55,067	56,902	56,902	51,395	56,902	55,067	56,902	55,067	56,902	56,902	55,067	56,902	332,235
Atlantic Bridge Ramapo Pipeline Path	177,480	183,396	183,396	165,648	183,396	177,480	183,396	177,480	183,396	183,396	177,480	183,396	1,070,796
PXP Dawn Pipeline Path	0	0	0	0	0	0	0	0	0	0	0	0	0
WXP Dawn Pipeline Path	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal Pipeline	607,252	793,566	793,566	716,769	793,566	232,547	240,298	232,547	240,298	240,298	232,547	240,298	3,937,266
Underground Storage													
Tennessee Storage	64,603	66,757	66,308	9,679	0	0	0	0	0	0	0	0	207,347
TGP Zone 4 300 Leg Supply	0	0	449	50,617	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	182,425
Tennessee FS-MA Storage Path	64,603	66,757	66,757	60,296	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	389,772
Union Dawn Storage	617,749	572,943	680,455	707,983	561,116	0	0	0	0	0	0	0	3,140,246
Dawn Supply	13,148	382,255	406,504	371,952	228,463	732,159	268,989	97,025	48,526	49,853	85,678	350,639	2,134,481
Union Dawn Storage Path	630,897	955,198	1,086,959	1,079,935	789,578	732,159	268,989	97,025	48,526	49,853	85,678	350,639	5,274,727
Subtotal Storage	695,500	1,021,955	1,153,716	1,140,231	856,335	796,762	335,746	161,628	115,283	116,610	150,281	417,396	5,664,499
Peaking Supplies													
Lewiston LNG	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260
PNGTS Delivered (Dec - Feb)	0	0	0	0	0	0	0	0	0	0	0	0	0
Peaking Contract 1	0	2,133	160,283	5,766	0	0	0	0	0	0	0	0	168,181
Peaking Contract 2	0	10,735	30,730	18,530	0	0	0	0	0	0	0	0	59,995
Incremental Delivered Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal Peaking	1,800	14,727	222,273	25,976	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	268,437
Total Delivered (Dth)	1,304,552	1,830,248	2,169,555	1,882,976	1,651,761	1,031,109	577,904	395,975	357,441	358,768	384,628	659,554	9,870,201

Northern Utilities, Inc.
Design Year Weather - Planning Load
Commodity Volumes by Supply Source (Dth)
November 2022 through October 2023

Description	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter
Pipeline Supplies													
Tennessee Long-Haul Pipeline Path	149,475	406,378	406,378	367,051	406,378	0	0	0	0	0	0	0	1,735,659
Algonquin Receipts Pipeline Path	37,530	38,781	38,781	35,028	38,781	0	0	0	0	0	0	0	188,901
Iroquois Receipts Pipeline Path	193,021	199,455	199,455	180,153	199,455	0	0	0	0	0	0	0	971,541
Tennessee Niagara Pipeline Path	69,805	72,132	72,132	65,151	72,132	69,805	72,132	69,805	72,132	72,132	69,805	72,132	421,156
Atlantic Bridge Ramapo Pipeline Path	225,000	232,500	232,500	210,000	232,500	225,000	232,500	225,000	232,500	232,500	225,000	232,500	1,357,500
PXP Dawn Pipeline Path	0	0	0	0	0	0	0	0	0	0	0	0	0
WXP Dawn Pipeline Path	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal Pipeline	674,831	949,246	949,246	857,383	949,246	294,805	304,632	294,805	304,632	304,632	294,805	304,632	4,674,757
Underground Storage													
Tennessee Storage	79,311	81,955	81,406	11,906	0	0	0	0	0	0	0	0	254,579
TGP Zone 4 300 Leg Supply	0	0	549	62,118	81,955	79,311	81,955	79,311	81,955	81,955	79,311	81,955	223,934
Tennessee FS-MA Storage Path	79,311	81,955	81,955	74,024	81,955	79,311	81,955	79,311	81,955	81,955	79,311	81,955	478,512
Union Dawn Storage	855,620	938,537	1,109,553	846,155	103,397	0	0	0	0	0	0	0	3,853,261
Dawn Supply	58,584	420,052	511,280	662,386	1,046,886	855,053	363,246	105,344	80,300	54,681	136,570	504,639	3,554,242
Union Dawn Storage Path	914,203	1,358,589	1,620,833	1,508,541	1,150,283	855,053	363,246	105,344	80,300	54,681	136,570	504,639	7,407,503
Subtotal Storage	993,515	1,440,544	1,702,788	1,582,565	1,232,238	934,364	445,201	184,655	162,255	136,636	215,881	586,594	7,886,015
Peaking Supplies													
Lewiston LNG	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260
PNGTS Delivered (Dec - Feb)	0	0	0	0	0	0	0	0	0	0	0	0	0
Peaking Contract 1	0	27,549	228,987	80,518	8,001	0	0	0	0	0	0	0	345,054
Peaking Contract 2	0	12,000	45,070	2,904	0	0	0	0	0	0	0	0	59,974
Incremental Delivered Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal Peaking	1,800	41,409	305,317	85,101	9,861	1,800	1,860	1,800	1,860	1,860	1,800	1,860	445,288
Total Delivered (Dth)	1,670,146	2,431,199	2,957,351	2,525,049	2,191,345	1,230,969	751,693	481,260	468,747	443,128	512,486	893,086	13,006,060

Northern Utilities, Inc.									
Normal Year Weather - Sales Service Load									
Capacity Utilization by Supply Source									
November 2022 through October 2023									
Description	Winter Projected Volume (Dth)	Winter Maximum Volume (Dth)	Winter Capacity Utilization	Summer Projected Volume (Dth)	Summer Maximum Volume (Dth)	Summer Capacity Utilization	Annual Projected Volume (Dth)	Annual Maximum Volume (Dth)	Annual Capacity Utilization
Pipeline Supplies									
Tennessee Long-Haul Pipeline Path	1,400,577	1,871,483	75%	0	1,902,502	0%	1,400,577	3,773,985	37%
Algonquin Receipts Pipeline Path	188,901	226,431	83%	0	230,184	0%	188,901	456,615	41%
Iroquois Receipts Pipeline Path	944,757	1,132,457	83%	0	1,151,227	0%	944,757	2,283,684	41%
Tennessee Niagara Pipeline Path	332,235	332,235	100%	337,742	337,742	100%	669,977	669,977	100%
Atlantic Bridge Ramapo Pipeline Path	1,070,796	1,070,796	100%	1,088,544	1,088,544	100%	2,159,340	2,159,340	100%
Subtotal Pipeline	3,937,266	4,633,402	85%	1,426,286	4,710,199	30%	5,363,552	9,343,601	57%
Underground Storage									
Tennessee Storage	207,347			0			207,347		
TGP Zone 4 300 Leg Supply	182,425			396,232			578,658		
Tennessee FS-MA Storage Path	389,772	389,772	100%	396,232	396,232	100%	786,004	786,004	100%
Union Dawn Storage	3,140,246			0			3,140,246		
Dawn Supply	2,134,481			900,712			3,035,193		
Union Dawn Storage Path	5,274,727	8,721,983	60%	900,712	8,866,546	10%	6,175,439	17,588,529	35%
Subtotal Storage	5,664,499	9,111,755	62%	1,296,944	9,262,778	14%	6,961,443	18,374,533	38%
Peaking Supplies									
Lewiston LNG	40,260	75,000	54%	11,040	11,040	100%	51,300	86,040	60%
PNGTS Delivered (Dec - Feb)	0	0		0	0		0	0	
Peaking Contract 1	168,181	597,900	28%	0	0		168,181	597,900	
Peaking Contract 2	59,995	59,995	100%	0	0		59,995	59,995	
Subtotal Peaking	268,437	732,895	37%	11,040	11,040	100%	279,477	743,935	38%
Portfolio Utilization	9,870,201	14,478,052	68%	2,734,270	13,984,017	20%	12,604,471	28,462,069	44%
Incremental Delivered Supplies	0	N/A		0	N/A		0	N/A	
Total Delivered	9,870,201	N/A		2,734,270	N/A		12,604,471	N/A	

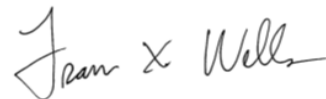
Northern Utilities, Inc. Design Year Weather - Planning Load Capacity Utilization by Supply Source November 2022 through October 2023									
Description	Winter Projected Volume (Dth)	Winter Maximum Volume (Dth)	Winter Capacity Utilization	Summer Projected Volume (Dth)	Summer Maximum Volume (Dth)	Summer Capacity Utilization	Annual Projected Volume (Dth)	Annual Maximum Volume (Dth)	Annual Capacity Utilization
Pipeline Supplies									
Tennessee Long-Haul Pipeline Path	1,735,659	2,372,721	73%	0	2,412,048	0%	1,735,659	4,784,769	36%
Algonquin Receipts Pipeline Path	188,901	226,431	83%	0	230,184	0%	188,901	456,615	41%
Iroquois Receipts Pipeline Path	971,541	1,164,562	83%	0	1,183,864	0%	971,541	2,348,427	41%
Tennessee Niagara Pipeline Path	421,156	421,156	100%	428,136	428,136	100%	849,292	849,292	100%
Atlantic Bridge Ramapo Pipeline Path	1,357,500	1,357,500	100%	1,380,000	1,380,000	100%	2,737,500	2,737,500	100%
Subtotal Pipeline	4,674,757	5,542,370	84%	1,808,136	5,634,233	32%	6,482,893	11,176,603	58%
Underground Storage									
Tennessee Storage	254,579			0			254,579		
TGP Zone 4 300 Leg Supply	223,934			486,443			710,377		
Tennessee FS-MA Storage Path	478,512	478,512	100%	486,443	486,443	100%	964,956	964,956	100%
Union Dawn Storage	3,853,261			0			3,853,261		
Dawn Supply	3,554,242			1,244,780			4,799,022		
Union Dawn Storage Path	7,407,503	10,822,531	68%	1,244,780	11,001,910	11%	8,652,283	21,824,441	40%
Subtotal Storage	7,886,015	11,301,043	70%	1,731,224	11,488,354	15%	9,617,239	22,789,397	42%
Peaking Supplies									
Lewiston LNG	40,260	63,960	63%	11,040	11,040	100%	51,300	75,000	68%
PNGTS Delivered (Dec - Feb)	0	0		0	0		0	0	
Peaking Contract 1	345,054	597,900	58%	0	0		345,054	597,900	
Peaking Contract 2	59,974	59,974	100%	0	0		59,974	59,974	
Subtotal Peaking	445,288	721,834	62%	11,040	11,040	100%	456,328	732,874	62%
Portfolio Utilization	13,006,060	17,565,248	74%	3,550,400	17,133,626	21%	16,556,460	34,698,874	48%
Incremental Delivered Supplies	0	N/A		0	N/A		0	N/A	
Total Delivered	13,006,060	N/A		3,550,400	N/A		16,556,460	N/A	

Northern Utilities Inc.
 Forecast of Upcoming Winter Period Design Day Report
 2022 / 2023 Winter Period
 (Therms)

Demand	
NH Firm Sales	495,480
NH Non-Capacity Exempt Transportation	149,990
NH Capacity Exempt Transportation	94,560
NH Interruptible Sales	0
NH Interruptible Transportation	0
NH Design Day Demand	740,030
ME Firm Sales	721,170
ME Non-Capacity Exempt Transportation	143,760
ME Capacity Exempt Transportation	126,040
ME Interruptible Sales	0
ME Interruptible Transportation	0
ME Design Day Demand	990,970
Total Firm Sales	1,216,650
Total Non-Capacity Exempt Transportation	293,750
Total Capacity Exempt Transportation	220,600
Total Interruptible Sales	0
Total Interruptible Transportation	0
Total Design Day Demand	1,731,000
Supplies	
Capacity Exempt Transportation	220,600
Additional Supplies Required for Non-Capacity Exempt Transport	110,770
Pipeline	505,510
Storage	425,070
On-System LNG	65,000
Off-System Peaking Contracts & Delivered Baseload	428,495
Additional Granite Capacity	4,365
Total	1,759,810
Effective Degree Day	
New Hampshire	80.1
Maine	78.9
Probability	1 in 30

Report Prepared By
 Title
 Signature

Francis X. Wells
 Manager, Energy Planning



Northern Utilities Inc.
New Hampshire 7 Day Cold Snap Analysis
Winter 2022-2023

Coldest 7 Consecutive Days

Based on historic Portsmouth weather data

<u>Date</u>	<u>EDD</u>
February 11, 1979	68
February 12, 1979	60
February 13, 1979	73
February 14, 1979	73
February 15, 1979	64
February 16, 1979	69
February 17, 1979	72
Total	479

Maximum Projected Design Week Demand (Dth)

Daily Baseload	7,099
Weekly Baseload	49,695
Heating Increment*	676
Effective Degree Days	479
Total Heat Load	323,867
<u>Projected Cold Snap Demand</u>	<u>373,562</u>

New Hampshire Allocation **40.86%**

Based on the latest demand cost allocator in the Winter COG filing.

Maximum Supply Capability (Dth)

Amount to be Supplied by Natural Gas Pipelines	
Tennessee Zone 0 and Zone L Pools	13,109
Tennessee Niagara	2,327
Iroquois Receipts	6,434
Leidy Hub Supply (Texas Eastern, Algonquin)	965
Transco Zone 6, non-NY Supply (Algonquin)	286
PXP Dawn Hub	9,965
WXP Dawn Hub	9,965
Atlantic Bridge Ramapo	7,500
Tennessee Firm Storage	2,644
Union Dawn Storage	39,863
Peaking Contract 1	39,860
Peaking Contract 2	2,990
Total Daily Pipeline	135,908
Pipeline for 7 days	951,353
<u>New Hampshire Allocation</u>	<u>388,723</u>

Available LNG Storage

Facility	Gallons	Dth
Lewiston LNG	145,134	12,140
Total	145,134	12,140
<u>New Hampshire Allocation - 7 Days</u>		<u>4,960</u>

LNG Delivery Contract

Northern Utilities plans to secure a contract for LNG Delivery for up to three loads of LNG per day.

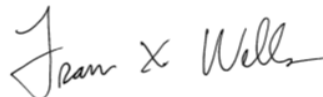
The storage credit for LNG is calculated as follows:

Number of Days	7
Number of Loads	3
Delivery Reliability	70%
Assumed Number of LNG Deliveries	15
Dth Per Load	900
Total Storage Credit	13,230
<u>NH Storage Credit - 7 Days</u>	<u>5,406</u>

Summary	
Maximum projected design week demand	373,562
Amount to be furnished by natural gas pipeline	388,723
Remaining Balance	-15,161
Storage available	4,960
Credit from LNG delivery supply contract	5,406
Total available storage and LNG deliveries	10,366
Net Surplus/(Deficiency)	25,527

Report Prepared By
Title
Signature

Francis X. Wells
Manager, Energy Planning



Northern Utilities, Inc.
 New Hampshire Division
 Migration to Transportation Only Service by Rate Class
 November 2022 through October 2023

C&I Rate Class	Annual Sales Service Deliveries (Dth)	Percentage of Sales Service Total by Rate Class	Sales Service Percentage by Rate Class
G40	969,161	41%	86%
G50	152,021	6%	84%
G41	710,107	30%	47%
G51	273,597	12%	50%
G42	178,052	8%	34%
G52	84,809	4%	5%
Special Contracts	-	0%	0%
Total C&I	2,367,747	100%	34%

C&I Rate Class	Annual Transport-Only Deliveries (Dth)	Percentage of Transport Only Total by Rate Class	Transportation Service Percentage by Rate Class
G40	153,340	3%	14%
G50	28,960	1%	16%
G41	799,580	18%	53%
G51	271,229	6%	50%
G42	349,227	8%	66%
G52	1,772,490	39%	95%
Special Contracts	1,136,743	25%	100%
Total C&I	4,511,568	100%	66%

C&I Rate Class	Annual Total Deliveries (Dth)	Percentage of Total by Rate Class
G40	1,122,501	16%
G50	180,980	3%
G41	1,509,687	22%
G51	544,826	8%
G42	527,279	8%
G52	1,857,299	27%
Special Contracts	1,136,743	17%
Total C&I	6,879,316	100%