

**STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION**

Docket No. DG 17-___

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities
Approval of Natural Gas Supply Strategy

PRE-FILED DIRECT TESTIMONY

OF

WILLIAM R. KILLEEN

AND

JAMES M. STEPHENS

December 21, 2017

1 Finally, the deliverability of the propane facilities is a large component of EnergyNorth's
2 Design Day resources, representing approximately 22% of the total Design Day
3 deliverability as shown in Table 6 above. As discussed in the Company's recent regulatory
4 filings with the Commission (e.g., Docket Nos. DG 14-380 and DG 16-814), the
5 EnergyNorth propane facilities have been in service for over 50 years, and the injection of
6 propane into the Company's distribution system may cause issues with certain customers'
7 high efficiency equipment.

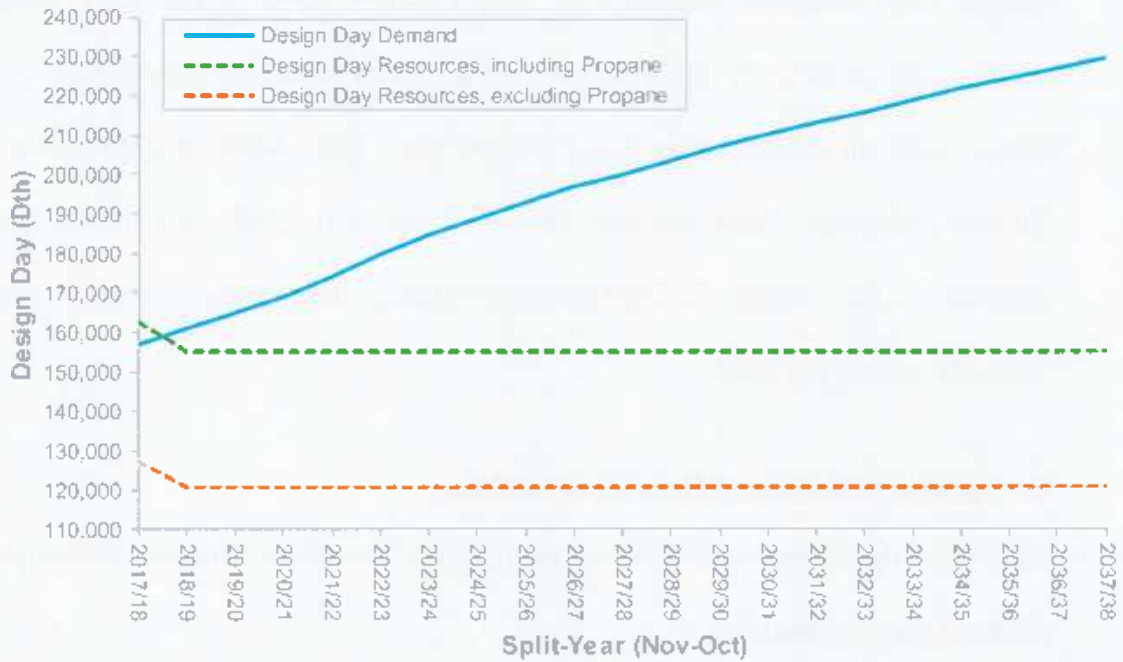
8 **D. Summary of Current Resource Portfolio**

9 **Q. How does the Company's existing Design Day resources compare to the projected**
10 **demand requirements?**

11 A. As illustrated in Figure 25 and Table 7 below, the Company has a resource shortfall on
12 Design Day beginning in 2018/19 of 5,956 Dth. Excluding the daily deliverability of the
13 propane facilities of 34,600 Dth would increase the 2018/19 resource shortfall to 40,556
14 Dth. By the 2037/38 split-year, the resource shortfall on Design Day is approximately
15 75,000 Dth (or over 109,000 Dth excluding the propane facilities).

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Figure 25: EnergyNorth Design Day Demand and Resources⁶²



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⁶² As discussed previously, the 2017/18 Design Day resources include the contract with ENGIE for a combination liquid/vapor service for up to 7,000 Dth per day, which terminates on March 31, 2018.

Table 7: EnergyNorth Design Day Resource Shortfall (Dth)⁶³

Split-Year (Nov-Oct)	Design Day Demand	Design Day Resources, including Propane	Reserve / (Deficiency) including Propane	Reserve / (Deficiency) excluding Propane
2017/18	156,822	162,033	5,211	(29,389)
2018/19	160,989	155,033	(5,956)	(40,556)
2019/20	164,640	155,033	(9,607)	(44,207)
2020/21	168,934	155,033	(13,901)	(48,501)
2021/22	173,917	155,033	(18,884)	(53,484)
2022/23	179,382	155,033	(24,349)	(58,949)
2023/24	184,432	155,033	(29,399)	(63,999)
2024/25	188,856	155,033	(33,823)	(68,423)
2025/26	192,933	155,033	(37,900)	(72,500)
2026/27	196,785	155,033	(41,752)	(76,352)
2027/28	199,954	155,033	(44,921)	(79,521)
2028/29	203,491	155,033	(48,458)	(83,058)
2029/30	206,790	155,033	(51,757)	(86,357)
2030/31	210,016	155,033	(54,983)	(89,583)
2031/32	212,972	155,033	(57,939)	(92,539)
2032/33	215,843	155,033	(60,810)	(95,410)
2033/34	218,828	155,033	(63,795)	(98,395)
2034/35	221,631	155,033	(66,598)	(101,198)
2035/36	224,148	155,033	(69,115)	(103,715)
2036/37	226,863	155,033	(71,830)	(106,430)
2037/38	229,590	155,033	(74,557)	(109,157)

⁶³ As discussed previously, the 2017/18 Design Day resources include the contract with ENGIE for a combination liquid/vapor service for up to 7,000 Dth per day, which terminates on March 31, 2018.