



GRANITE
SHORE
POWER

BIA of New Hampshire Energy Symposium

State of Energy: What's Working and New Opportunities

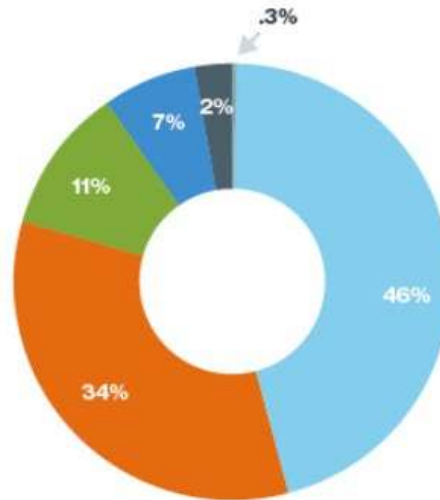
November 7, 2024

The High Cost of Energy

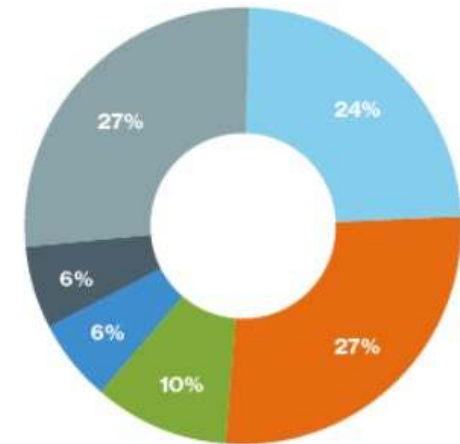
When acute winter events occur, the region relies heavily on oil to ensure reliability when the grid is stressed

Oil Generation is High During Extreme Winter Cold

Oil generation was 27% of the regional fuel mix during the cold spell of winter of 2017/2018 compared with 0.3% for most of the month of December.



Average Fuel Mix for Most of December 2017 (Dec. 1-26, 2017)



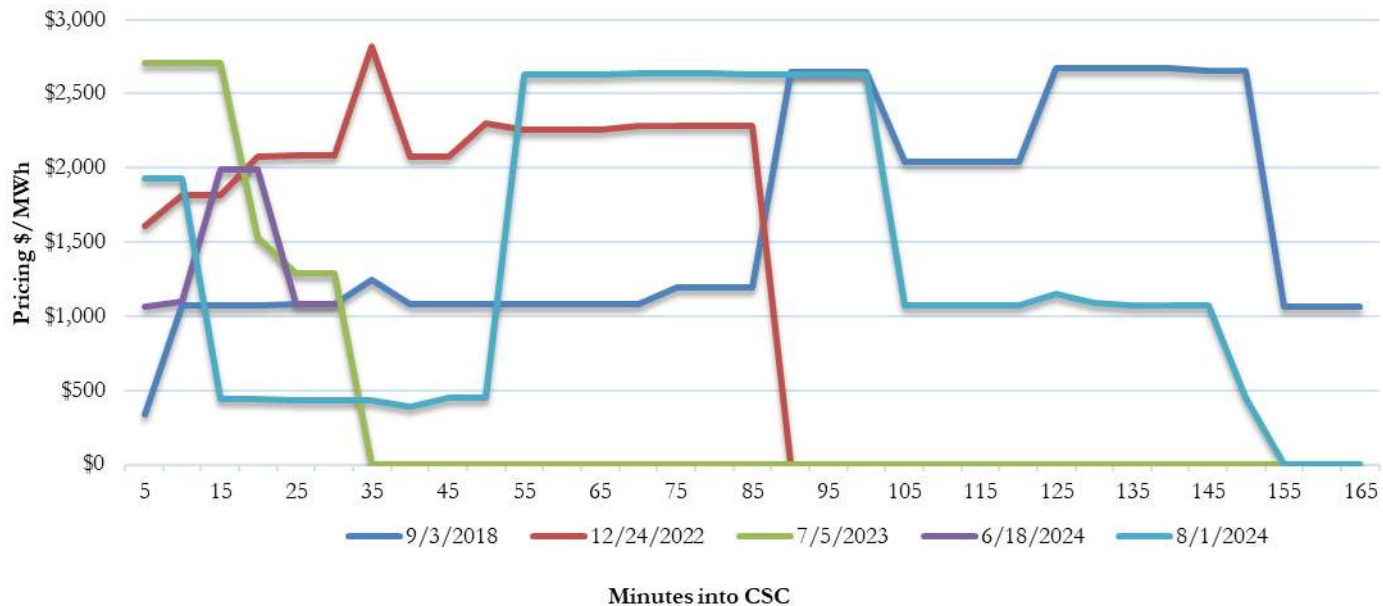
Average Fuel Mix for Extreme Cold Spell (Dec. 26, 2017 to Jan. 9, 2018)

Source: ISO-NE, *Resource Mix*, [Resource Mix \(iso-ne.com\)](http://Resource Mix (iso-ne.com))

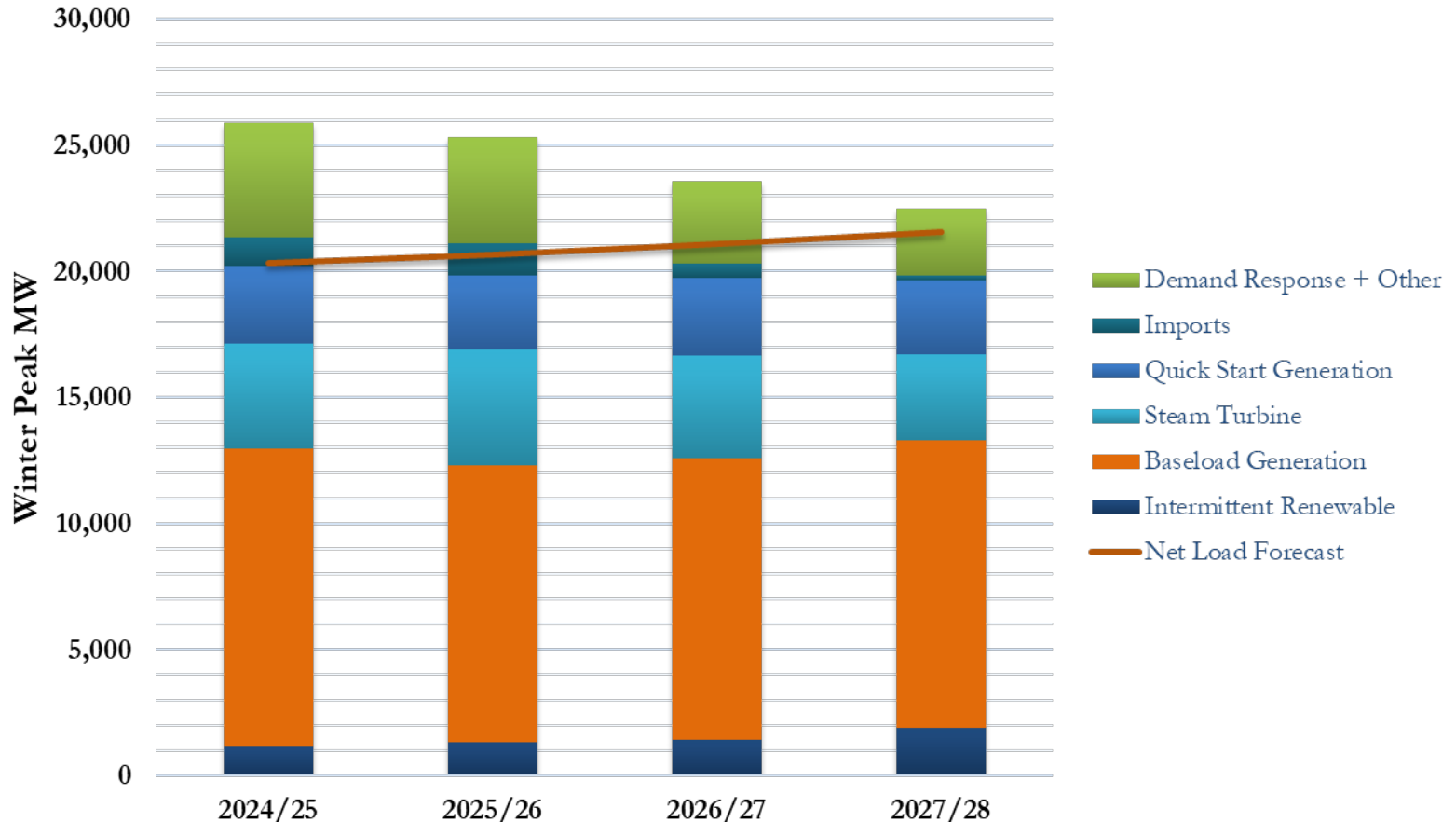
The Reality of Reliability

- Since inception ISO-NE has experienced five scarcity events
 - Scarcity event occur when generation reserves are below the capacity of the largest generator online
 - These events have been increasing in frequency
 - Mystic generating station expiration of its RMR contract may result in increased volatility and risk

Scarcity Events - ISO-NE
Since implementation of PFP



Winter Peak Load and Capacity Forecast



Demand response includes active (ADR - 17%) and passive (PDR - 83%). ADR are resources that can be dispatched by ISO-NE to reduce load. PDR are resources that can not respond to dispatch instructions these are typically energy efficiency measures that have been implemented.

A Reliable Energy Future

■ Jacona II @ Schiller Station: BESS

- Navigating ISO-NE Interconnection
- Feasibility Study expected September 27
- System Impact Study – Next Step



■ Merrimack Station: BESS + PV

- Front End Engineering Design In Process
 - Technology selection and site layout
 - Complete electrical design
- IRTT application expected to be submitted **Q4 2024**

TO BE BUILT		POWER TABLE				BY REGION			
LOCATION	WORLDWIDE	WORLDWIDE	WORLDWIDE	WORLDWIDE	WORLDWIDE	WORLDWIDE	WORLDWIDE	WORLDWIDE	WORLDWIDE
AMERICA	11,000	AMERICA	11,000	AMERICA	11,000	AMERICA	11,000	AMERICA	11,000
EUROPE	11,000	EUROPE	11,000	EUROPE	11,000	EUROPE	11,000	EUROPE	11,000
ASIA	11,000	ASIA	11,000	ASIA	11,000	ASIA	11,000	ASIA	11,000
Africa	11,000	Africa	11,000	Africa	11,000	Africa	11,000	Africa	11,000
South America	11,000	South America	11,000	South America	11,000	South America	11,000	South America	11,000
Other	11,000	Other	11,000	Other	11,000	Other	11,000	Other	11,000
TOTAL	55,000	TOTAL	55,000	TOTAL	55,000	TOTAL	55,000	TOTAL	55,000

NOTES:
1. This table is for informational purposes only.
2. The actual capacity of the project will be determined by the final design and construction.
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MERRIMACK, NH - COP ISLAND - OVERALL ARRAY LAYOUT

NOT A SCALE DRAWING