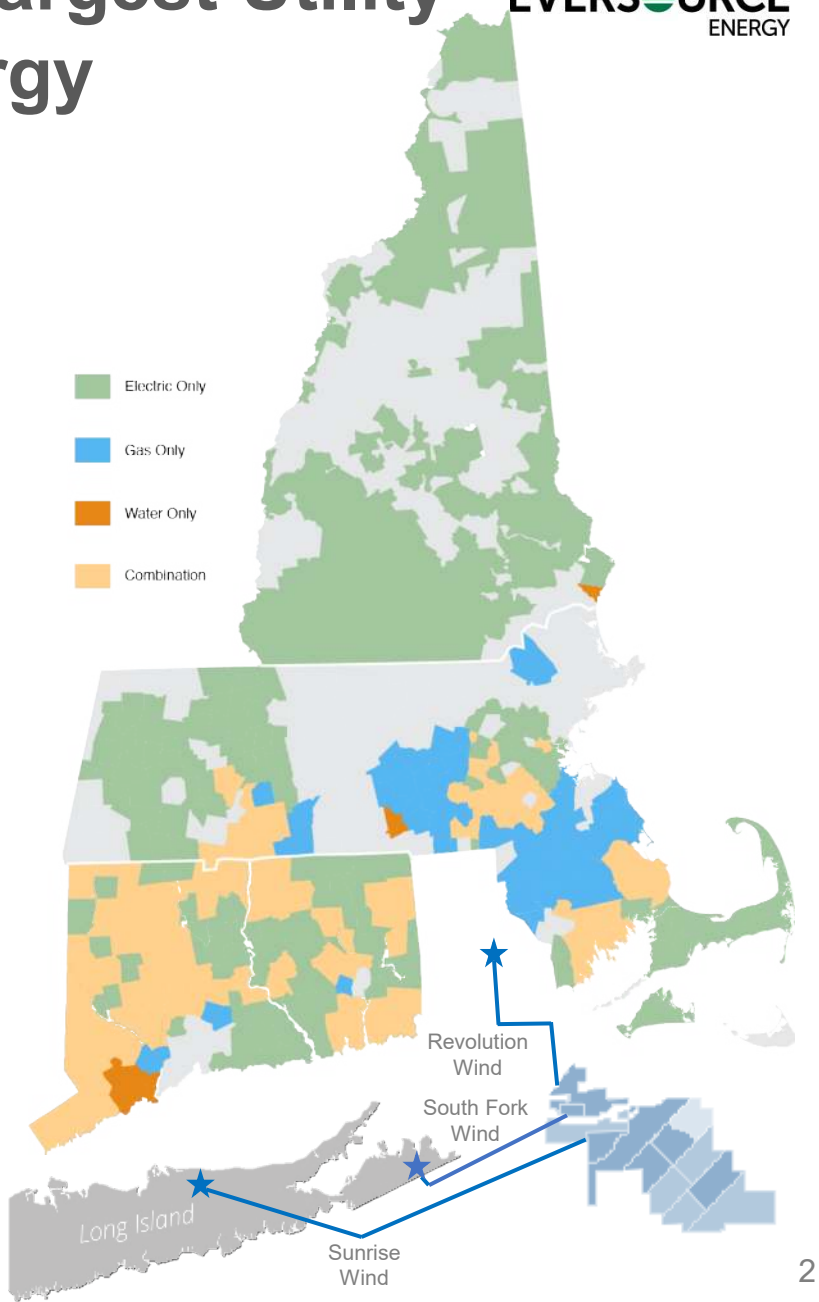
EVERSOURCE

Delivering cost-effective **Transmission Solutions** that provide reliable power and support a **Clean Energy Future**

Eversource: **New England's Largest Utility** and a **Catalyst for Clean Energy**

- Provides **electric, gas and water** services
- **4.3 million** customers
- **9,100** employees
- Operates **49%** of New England's **transmission system**
- **Carbon neutral** by 2030
- Partnership with Ørsted to provide **~1700 MW of offshore wind power** to New England and New York



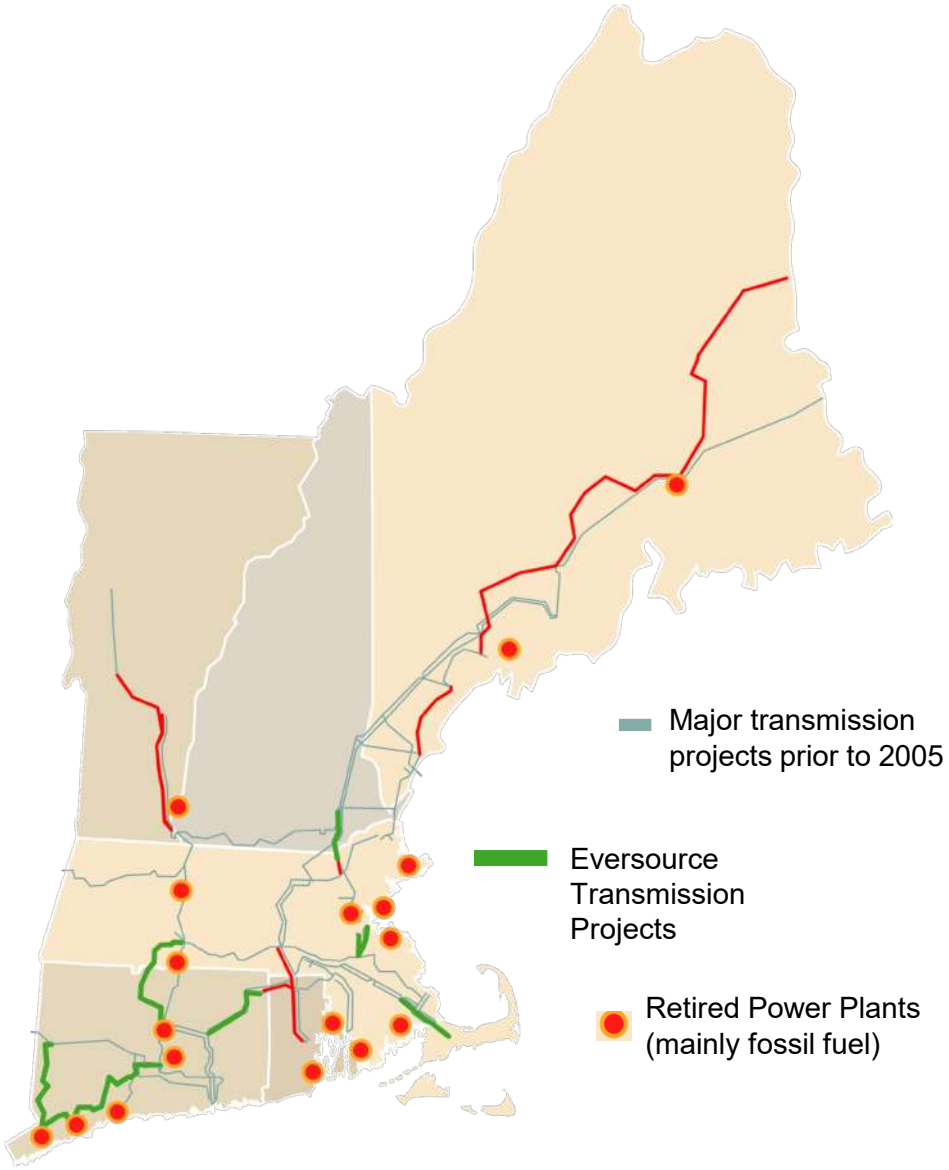
The Role of **Transmission**

- ✓ Investments are addressing pockets of **load growth** and improving **reliability**
- ✓ Aging infrastructure replacements are improving **storm resiliency and automation**
- ✓ Significant progress towards greater integration of large- and small-scale **clean energy resources**
- ✓ Essential to the **future growth of affordable clean energy**

A History of **Solving** Grid **"Bottlenecks"** & **Improving Reliability**

2005-2020:

- **8** major transmission programs
- **$11B** investment
- **$600M** in annual customer savings
- Over **6,000** MW of baseload generation retired since 2000
- **36%** reduction in CO_2 emissions



Making the Grid More **Resilient** & **Flexible**

- Nearly **700** structures in total being replaced this year due to deterioration or other deficiencies
- Average age of structures being replaced: **55** years

- Lightning arresters to be installed on more than **700** structures across **56** power lines to protect the lines from lightning strikes
- Upgrading substation equipment for **operational flexibility, reliability** and to better manage **voltage variations** on the system

- **Rebuilding three power lines** and installing optical ground wire for increased automation
  - Whitefield to Northumberland (18 miles)
  - Franklin to New Hampton (11 miles)
  - Keene (1 mile)

New Hampshire Projects

Since 2010:

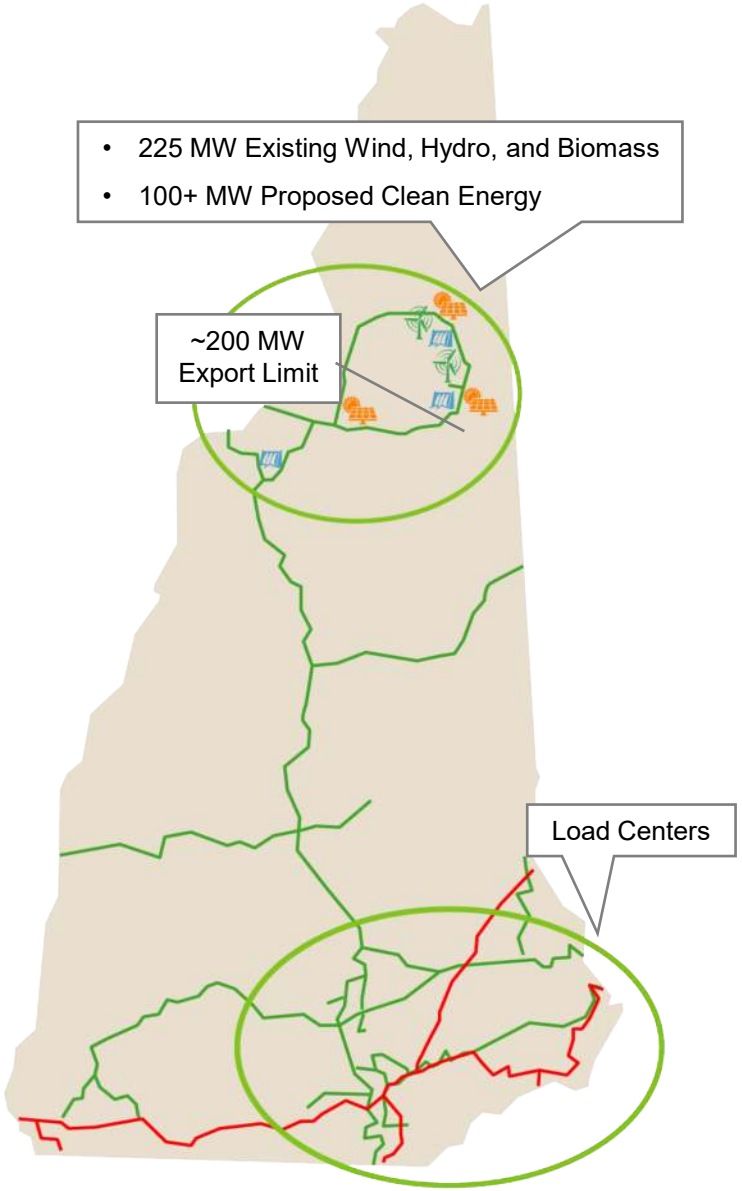
- **91** transmission projects
- Total of nearly **$1B** investment
- **$200M+** of investments expected in the next few years

Main Benefits:

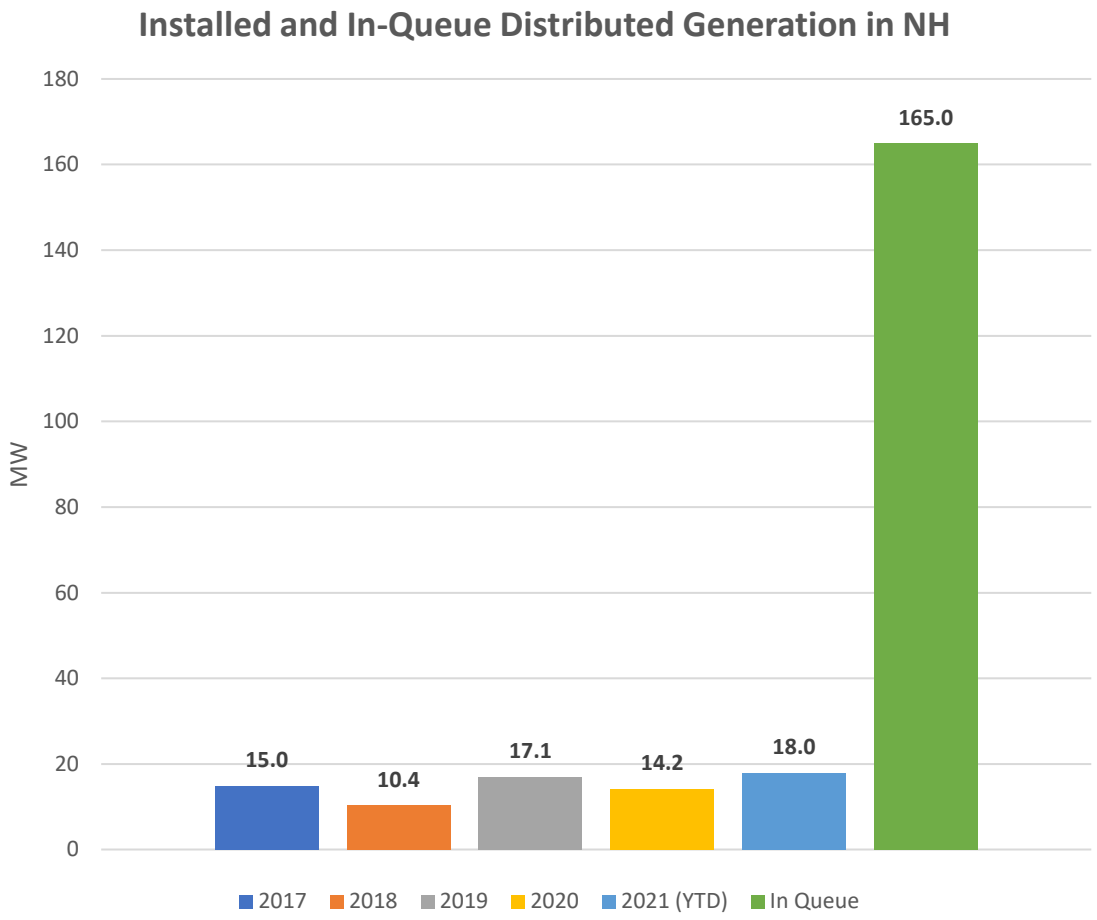
- Improved reliability
- Strengthened resiliency
- Facilitated the integration of clean energy

Improving **Resiliency** and Unlocking **Clean Energy**

- Replacing aging infrastructure in the North Country to improve resiliency
- Designing upgrades to support future clean energy resources
- Allowing power to flow to where the demand is in southern New Hampshire

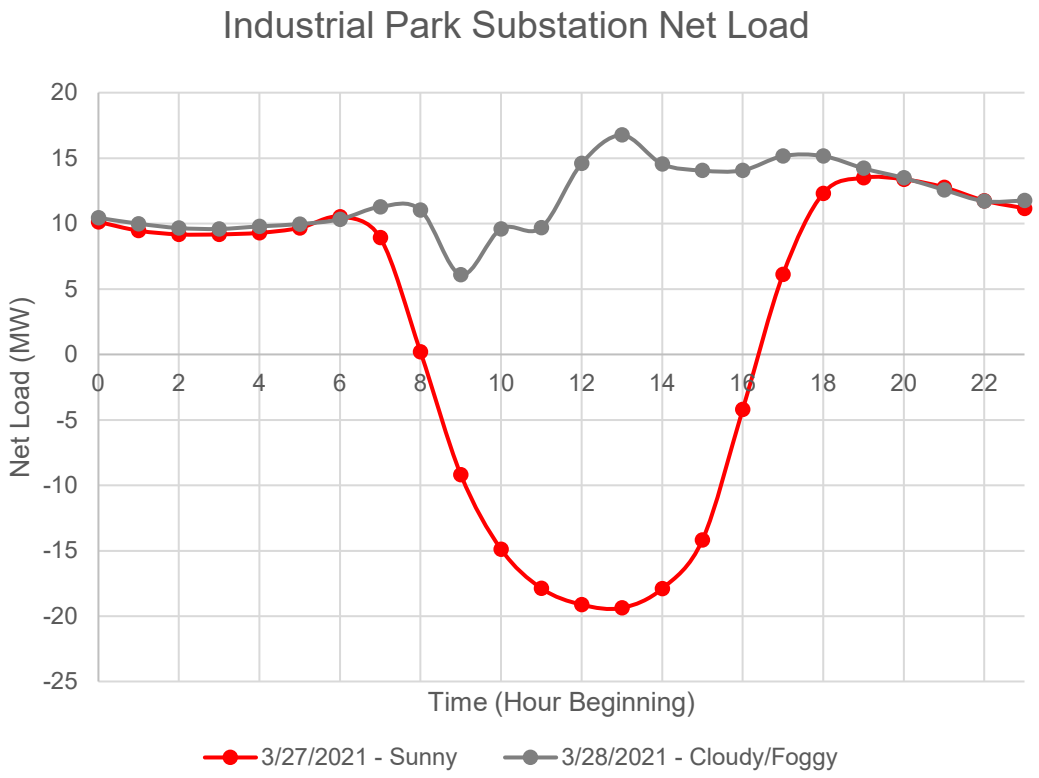


Growth of Distributed Energy Resources (DERs) Expected to Accelerate



- Installation of DERs such as solar, EVs and batteries have been increasing
- DERs expected to grow dramatically
- Several large solar projects are “in the queue” waiting to connect to the grid due to capacity limits — the infrastructure can’t yet support it

Transmission is Needed to Balance Load with Distributed Solar



Example of how power flows at an Eversource substation with a large amount of distributed solar

- On sunny days**, solar can produce more power than is needed** for a region served by a substation, so the excess power is delivered by the transmission system to other parts of the grid
- On cloudy days, **solar doesn't produce enough power**, so the transmission system delivers power to the station from other parts of the grid

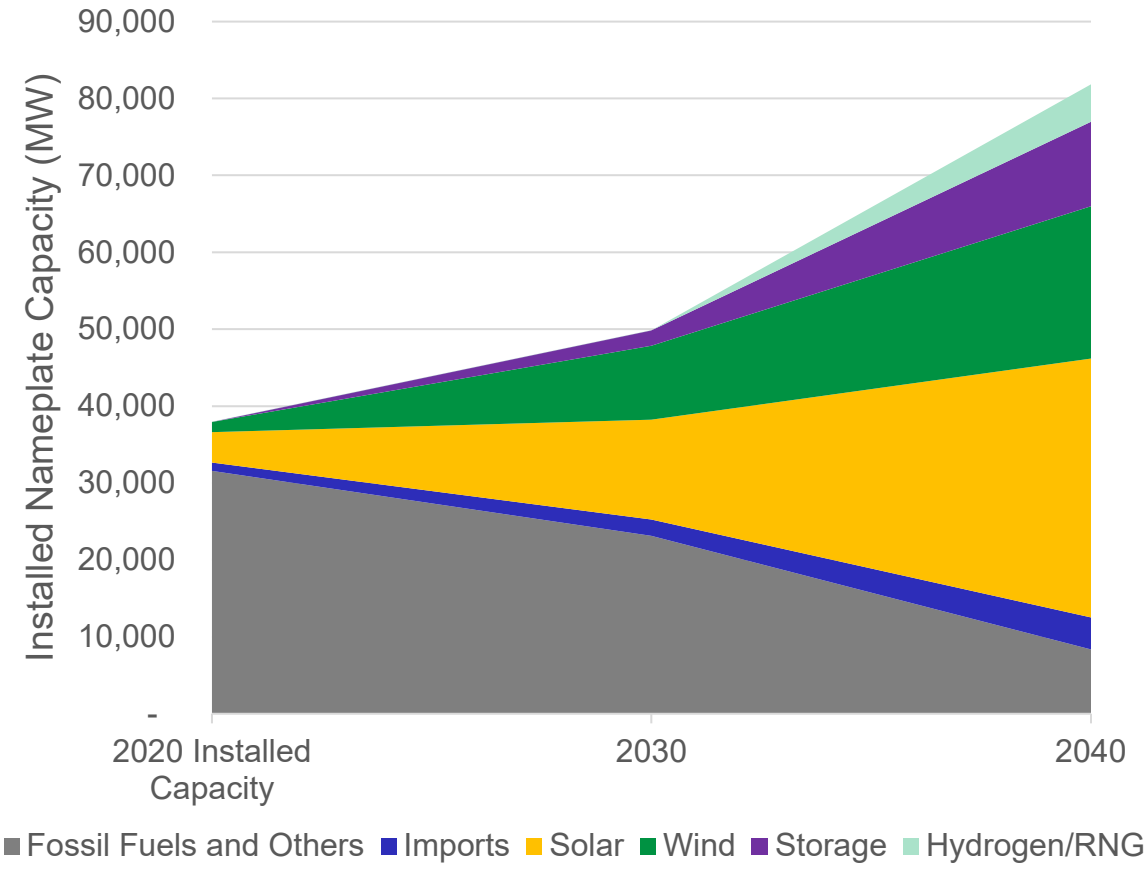
Enabling Explosive **Growth in Clean Energy** and Supporting **Higher Demand**

Electrification increases demand by at least
65% by 2050

Imported hydro capacity increases by approx.
3,000 MW by 2040

Investments in demand response, energy efficiency and distributed resources will help to moderate the electric demand

Potential Supply Scenario That Meets New England State Decarbonization Policies



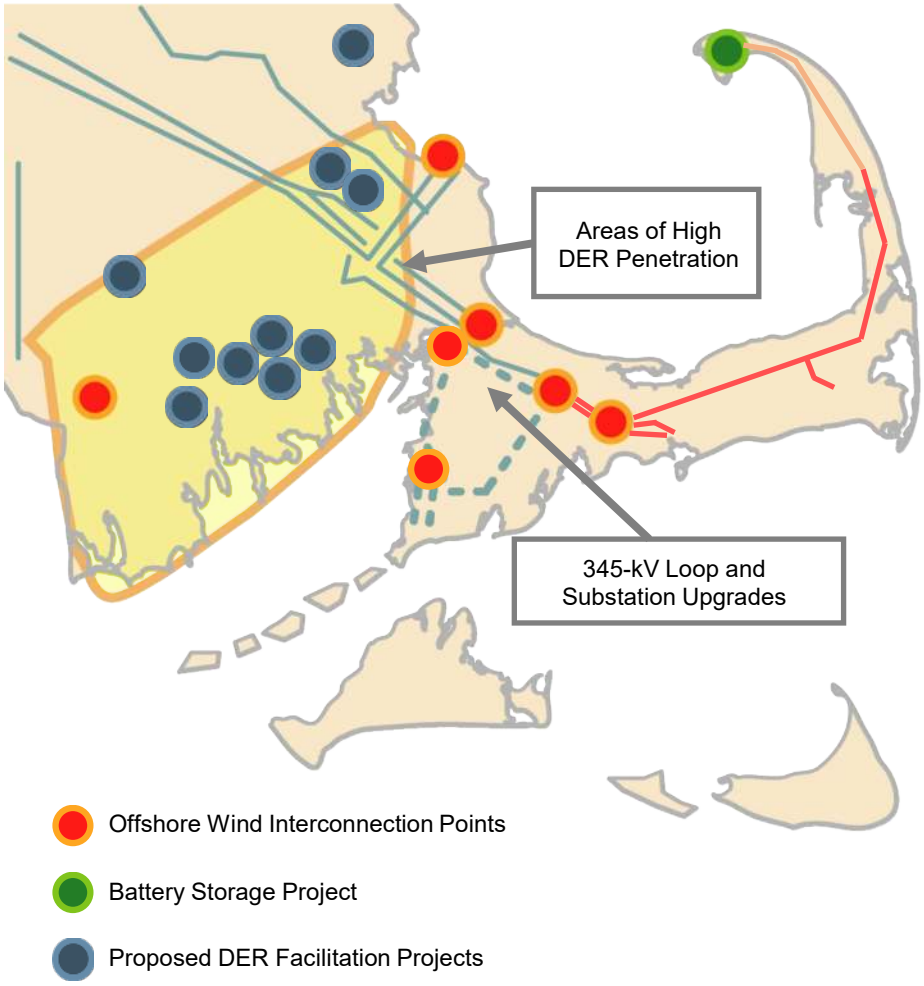
Source: London Economics International, LLC capacity expansion and hourly economic simulations of multiple decarbonization scenarios

Combining **Grid Reliability, Resiliency** and **Clean Energy**

Co-optimized transmission solutions to address reliability needs and interconnect offshore wind

Energy storage solution to provide essential back-up power for resiliency

Proactively planning for clusters of distributed generation and integrating with local transmission projects



How We **Achieve the Grid of the Future** in New England

- **Collaborating** with states, FERC, ISO-NE, communities and clean energy developers
- **Planning ahead to look for ways to cost effectively prepare the grid now** for future clean energy and electrification demands
- **Modernizing the grid** to support both large-scale and distributed clean energy resources while maintaining reliability and resiliency

Questions?

Key Components of **NH Rates**

Average Residential Customer
(600 kilowatt-hours)
As of August 1, 2021