New England Power Grid State Profiles 2022–2023

Supply and demand resources help meet New England’s electricity needs, and state policies are transforming the resource mix.

Region Has Many Proposals for New Supply

Electric generating capacity by state (MW)

ISO’s Electrification Forecast Shows Demand Growth

Compound annual growth rates for peak demand and overall electricity use, net of energy efficiency and solar photovoltaics (PV), 2022–2031

Proposed Generation (by type)

Wind, solar and battery storage dominate new resource proposals in the ISO queue (as of January 2023); Total: 31,840 MW

Related Developments

The region’s capacity market is attracting investment

Nearly 1,500 MW of new natural gas, wind, solar, energy storage, and hydro resources have cleared in recent Forward Capacity Auctions with commitments to be available in 2023–2026.

The states are active in procuring clean energy

From 2015 to 2023, Connecticut, Maine, Massachusetts, and Rhode Island have solicited more than 10,000 MW of supply through large-scale clean energy procurements, consisting primarily of wind, solar, hydro, and nuclear energy resources. This is driving proposals in the ISO queue.

Demand Resources Compete in New England Markets

Demand resources cleared in the 14th Forward Capacity Auction and committed for June 1, 2023, to May 31, 2024 (MW)


Source: ISO-NE 2023-2024 Capacity Commitment Period Forward Capacity Auction Obligations

State Renewable Portfolio Standards Are Rising
Class I or new renewable energy resources (%)

States Target Increases in Renewable and Clean Energy and Deep Reductions in CO₂ Emissions

All six New England states have renewable energy standards
Electricity suppliers are required to provide customers with increasing percentages of renewable energy to meet state requirements.

*Vermont’s standard recognizes new and existing renewable energy and is unique in classifying large-scale hydropower as renewable.

ISO-NE Forecasts Strong Growth of Solar PV Resources
Values are alternating current (AC) nameplate capacity (MW)

New England states promote behind-the-meter solar PV
ISO-NE reduces the level of capacity to be procured in the Forward Capacity Auction to account for state policies promoting behind-the-meter solar PV.

New England States Lead US Energy-Efficiency Rankings
New England ranks among top states in US

Five states mandate greenhouse gas reductions economy wide: MA, CT, ME, RI, and VT (mostly below 1990 levels)

ISO-NE is a non-profit corporation responsible for the reliable operation of New England’s electric power generation and transmission system, overseeing and ensuring the fair administration of the region’s wholesale electricity markets, and managing comprehensive regional electric power planning.

New England states invest billions in energy efficiency
The six states invested nearly $5.8 billion from 2015 to 2020, and the ISO projects an additional $11.5 billion investment from 2022 to 2031.

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