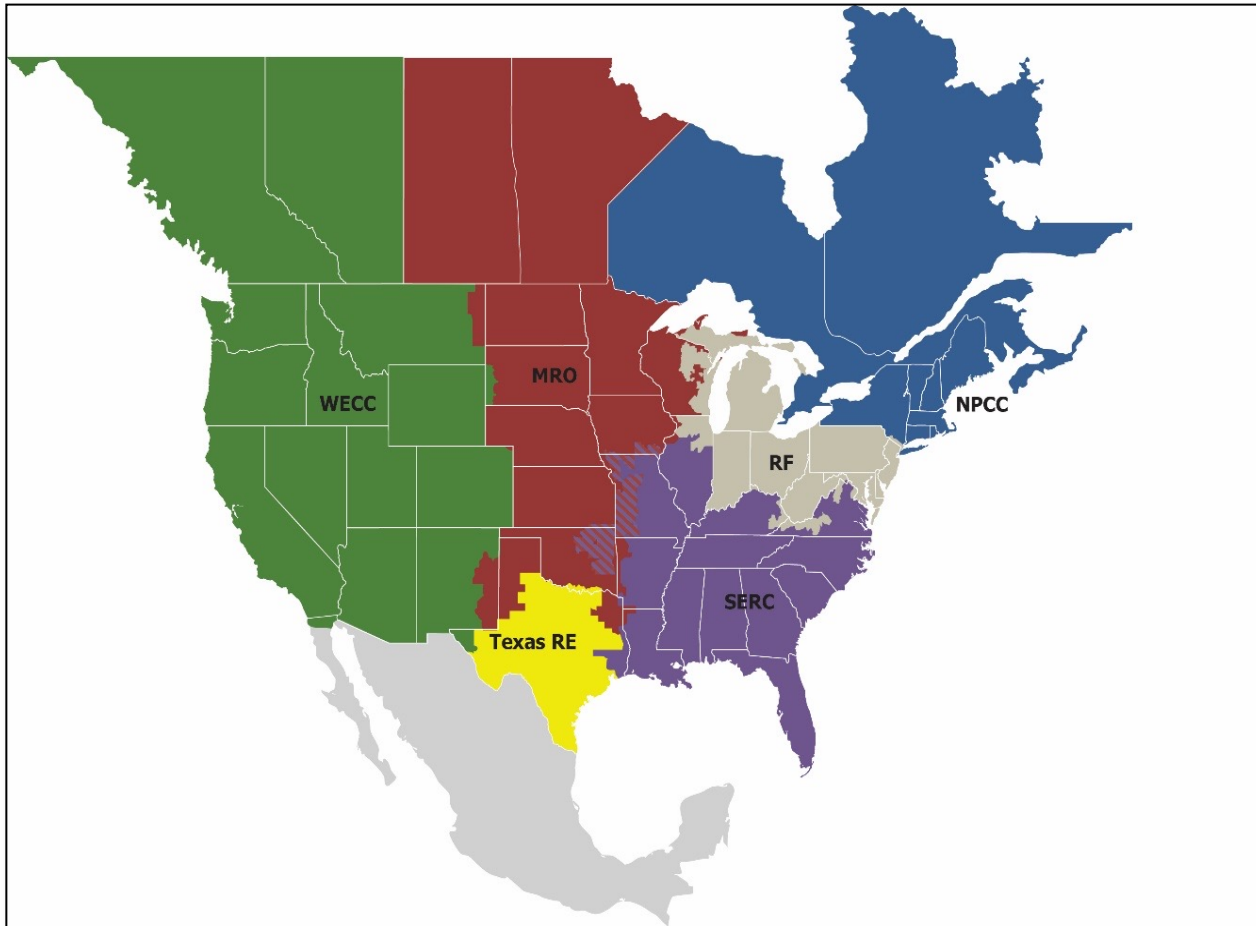




## Northeast Power Coordinating Council (NPCC)

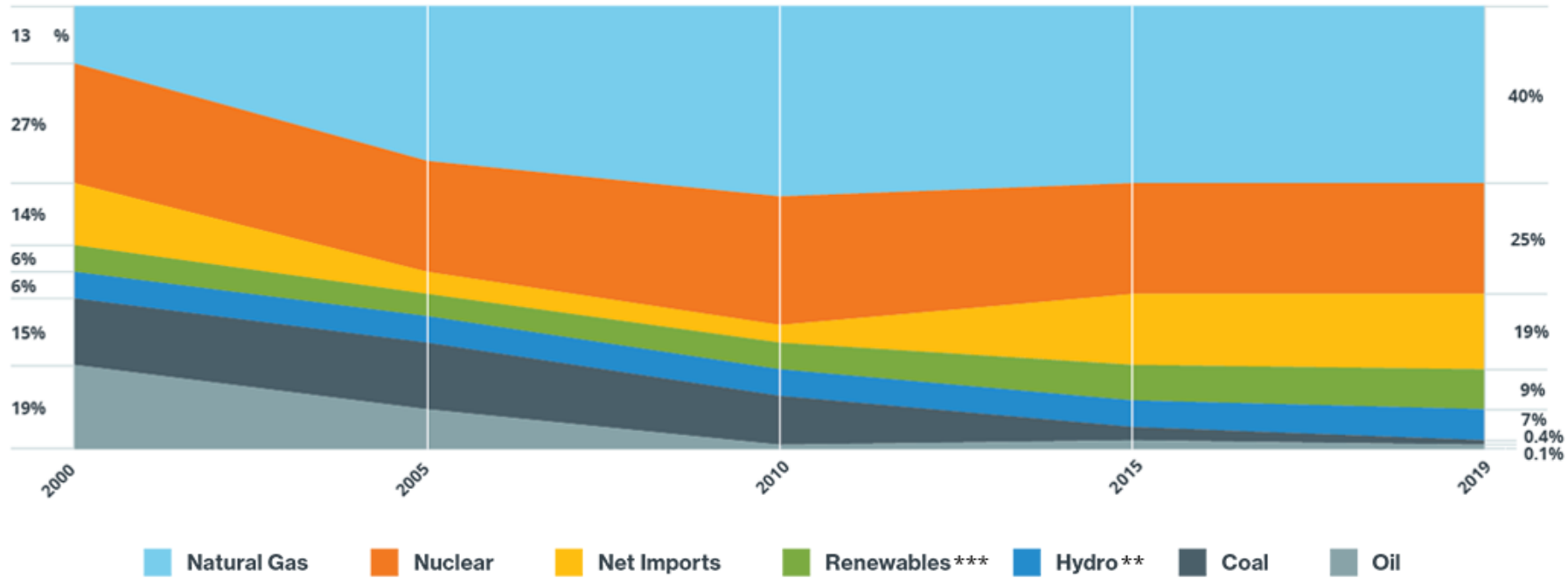


Source: [www.npcc.org](http://www.npcc.org)

- One of six NERC Regional Entities throughout the US, Canada and portions of Mexico
- Area (sq. miles): 1.2 million
- Population: 56+ million people
- States (US): 7      Provinces (Canada): 4
- Registered Entities: 237, performing 502 functions
- Share of Eastern Interconnection Load: ~20%
- Share of NPCC Load: 43% US / 57% Canadian
- Share of Total Canadian Load within NPCC: ~65%



## Sources of Grid Electricity in New England (Annual Net Energy for Load)



\*Data are subject to adjustments. This chart approximates the amount of generation by individual fuels used by dual-fuel units, such as natural-gas-fired generators that can switch to run on oil and vice versa. Before 2016, generation from such units was attributed only to the primary fuel type registered for the unit.

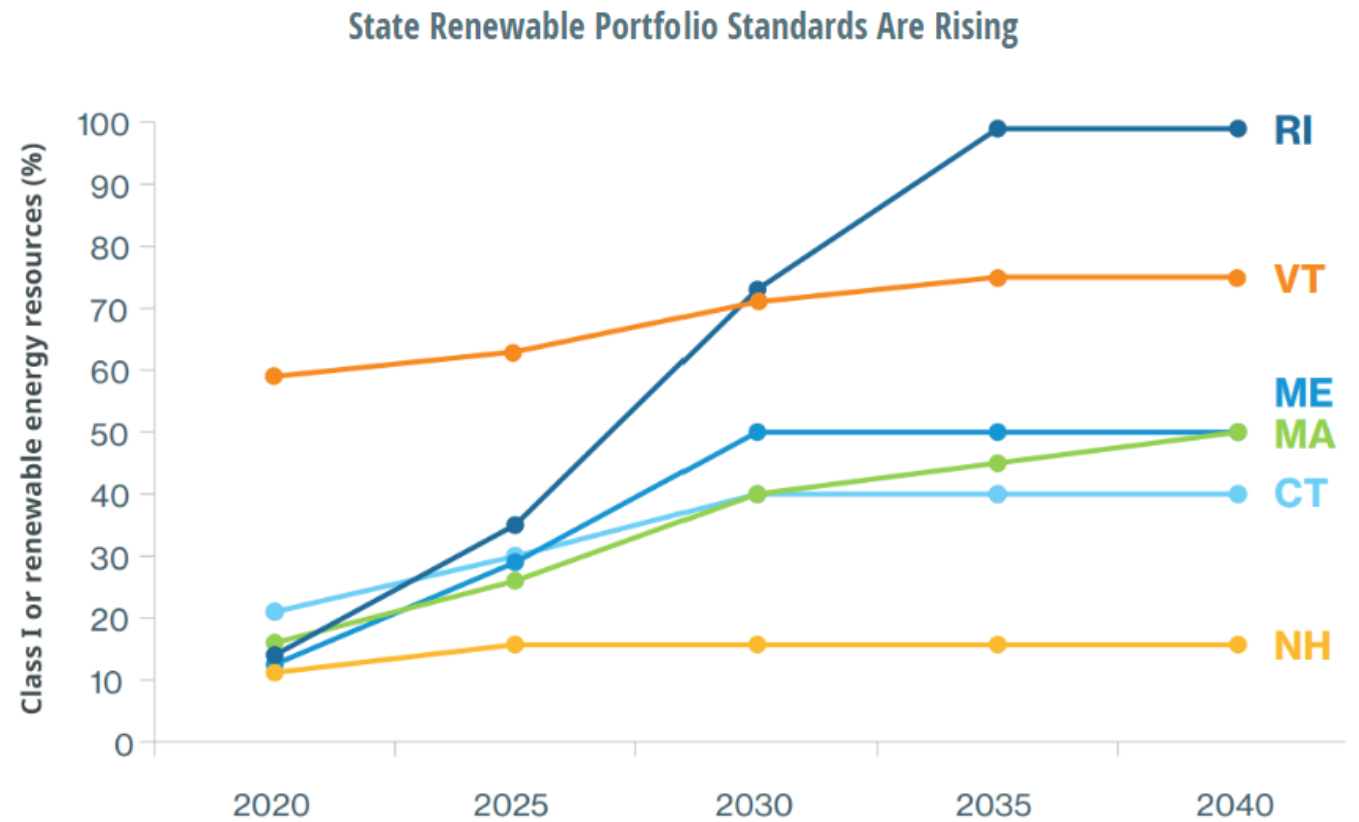
\*\*Includes pondage, run-of-river, and pumped storage.

\*\*\*Renewables include landfill gas, biomass, other biomass gas, wind, grid-scale solar, municipal solid waste, and miscellaneous fuels. Hydro is not included in this category primarily because the various sources that make up hydroelectric generation (i.e., conventional hydroelectric, run-of-river, pumped storage) are not universally defined as renewable in the six New England states.

Source: ISO New England, generation data and *Net Energy and Peak Load by Source Report*



## New England - State Renewable Portfolio Standards

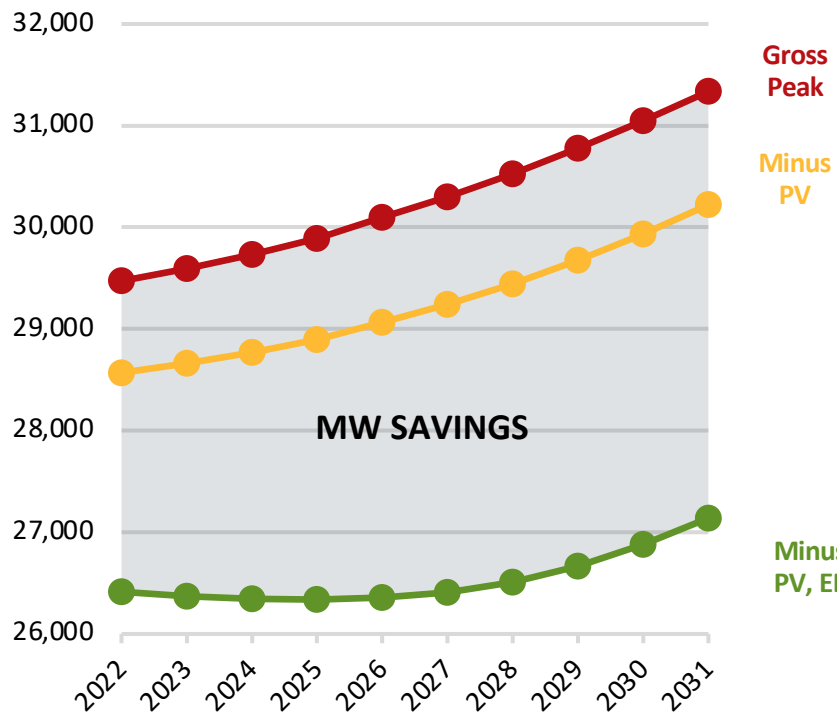


Source: ISO New England



# Energy Efficiency and Behind-the-Meter Solar Resources Are Reducing Peak Demand

Projected Summer Peak Demand (MWs) With and Without EE and PV Savings



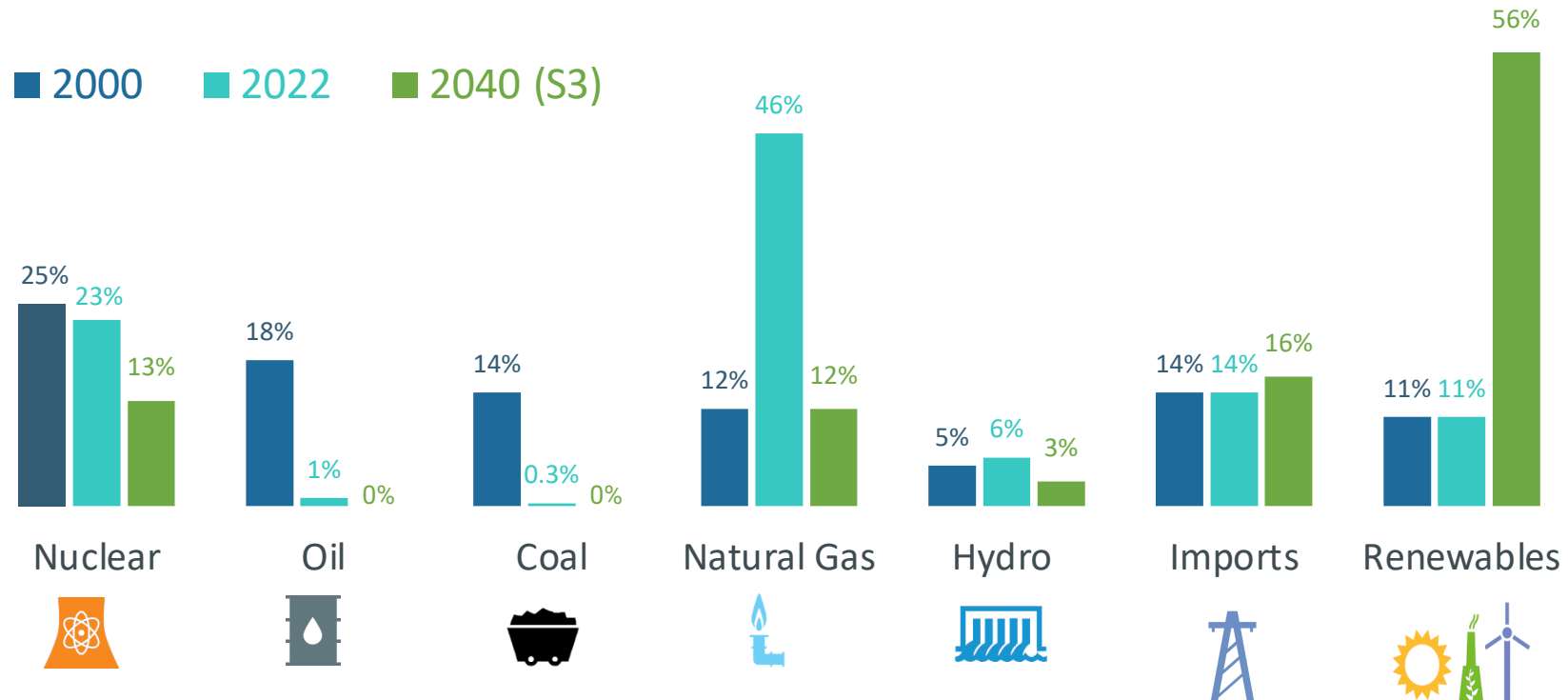
- **28,130 MW:** all-time summer peak demand, set on August 2, 2006
- Energy efficiency (EE) and behind-the-meter (BTM) solar are **reducing** annual growth in peak demand
- Annual growth rates for 2022–2031:
  - **+0.7% without EE and BTM solar**
  - **+0.3% with EE and BTM solar**
- Electrification of heating and transportation will increase load

Source: ISO New England 2022 Forecast Data



# New England Changes in the Energy Mix

Percent of Total Electric Energy Production by Source  
(Past, Present, Future)



**In total, 406 new generation projects are currently being tracked, totaling approximately 43,000 MW**

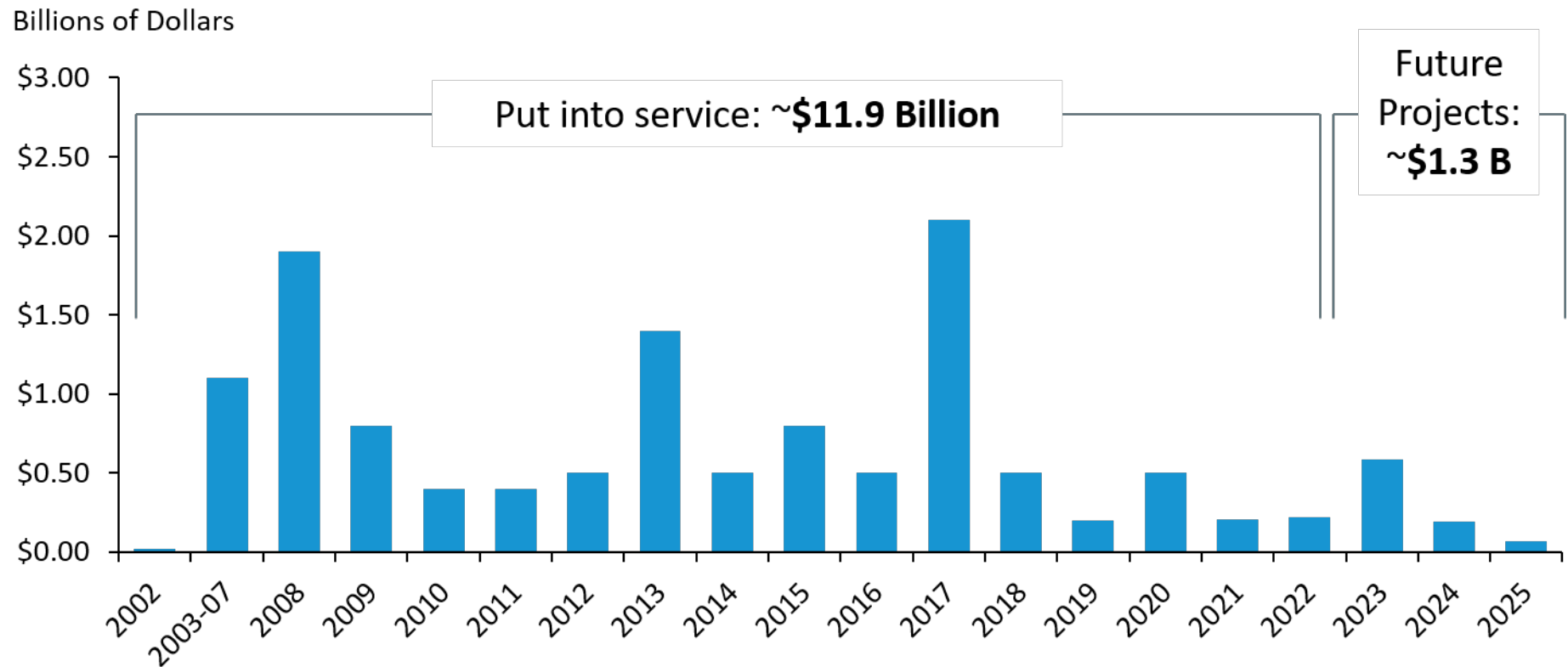
Source: ISO New England Net Energy and Peak Load by Source; data for 2022 is preliminary and subject to resettlement; data for 2040 is based on Scenario 3 of the ISO New England 2021 Economic Study: Future Grid Reliability Study Phase 1.

Renewables include landfill gas, biomass, other biomass gas, wind, grid-scale solar, behind-the-meter solar, municipal solid waste, and miscellaneous fuels.



# New England Investments in Transmission

*Transmission investment by year that projects are put into service (capital costs)*



Source: ISO New England RSP Transmission Project Listing, October 2022  
Estimated future investment includes projects under construction, planned and proposed.