

# Challenge of New England Energy Transition: Tension between the Long-term and Today

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# Notable Quotes

- **Power Plant Exec (2021) on reliability in New England:** “With a lot of focus on offshore wind and a bitter hatred toward natural gas (here), I think it’s going to be a real challenge.”
- **NESCOE Managers Letter to President and CEO of ISO NE (Jan 2022) on the expiration of the ISO’s temporary winter programs:** “It is not about bringing on line long-duration balancing resources that the ISO-NE letter states the U.S. Department of Energy is now researching. It is a risk (unspecified) here and now, and next winter, if New England has the sustained cold weather we’ve experienced in the Northeast.”
- **Quote of FERC Chair Glick on Weymouth Compressor Station:** “I believe the Commission likely erred in siting the Weymouth Compressor station where it did. This facility is located in a highly populated area that is home to two environmental justice communities. Those communities have borne a disproportionate burden from a legacy of industrial activity , including elevated rates of asthma, certain cancers and other serious illnesses. But that is not the issue that was before the Commission today. The certificate is final, and, under the law as it stands that leaves only one issue for us to decide. Whether the Commission erred in allowing the project to go into service? The deficiencies in the now final certificate do not provide a legal basis to prevent the Weymouth Compressor Station from entering service based on the record in this proceeding.”

# NE Regional Energy Organizations

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- **ISO-New England (ISO-NE):** Grid Operation, Market Administration, Power System Planning for 6 NE states
- **NE Power Pool (NEPOOL):** FERC approved stakeholder advisory group on all matters related competitive wholesale markets rules and transmission market decision
- **NE State Committee on Electricity (NESCOE):** NE states senior energy officials focusing on resource adequacy, system planning and expansion; FERC approved funding through ISO-NE
- **New England Conference of Regulatory Utility Commissioners (NECPUC):** Information to PUCs but no regulatory authority
- **NE England Governors and Eastern Canadian Premiers Meeting:** market mechanisms, best in class planning, grid resiliency, energy transition

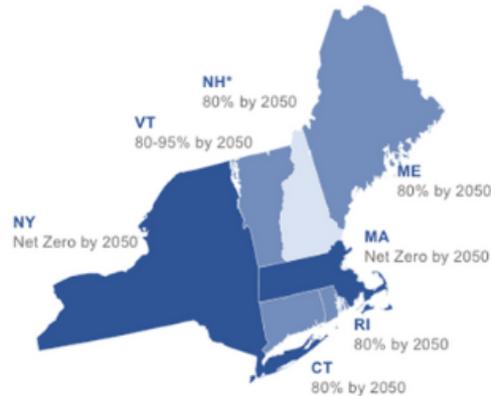
# Pathways to Net Zero (NECEC) and Energy Efficiency Rank

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## ACEE RANK

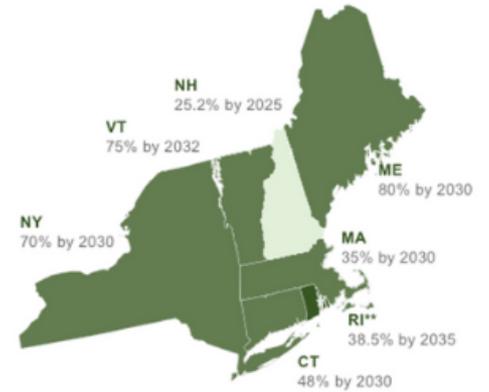
- CT #7
- Ma #2
- ME #16
- NH #18
- NY #6
- RI #4
- VT #3

2050 GHG Emissions Reduction Targets



\*NH has an aspirational goal of 80% emissions reduction by 2050, but no legislative mandate

Renewable Portfolio Standards



\*\*Governor Gina Raimondo signed an executive order committing Rhode Island to 100% renewable energy by 2030

# OSW Procurements by States 2022 (Hines and Kates-Garnick, unpublished)

Table 2. Offshore Wind Procurements by State since 2018.

State	Project Name	Size (MW)	Developer	Contract Date	Operational
MA	Vineyard Wind 1a	400	CIP + Avangrid	07/31/2018	01/15/2022 <sup>1</sup>
MA	Vineyard Wind 1b	400	CIP + Avangrid	07/31/2018	01/15/2023 <sup>1</sup>
RI	Revolution Wind 1	400	Ørsted + Eversource	12/06/2018	01/15/2024
CT	Revolution Wind	304	Ørsted + Eversource	N/A	est. 2025 <sup>2</sup>
NJ	Ocean Wind 1	1,100	Ørsted + PSEG	06/21/2019	05/24/2024
NY	Empire Wind 1	857	Equinor + BP	10/23/2019	N/A (2024) <sup>3</sup>
NY	Sunrise Wind	924	Ørsted + Eversource	10/23/2019	N/A (2024) <sup>3</sup>
MA	Mayflower Wind	804	Shell + EDPR	01/10/2020	09/01/2025
CT	Park City Wind	804	CIP + Avangrid	05/21/2020	12/31/2028
NJ	Atlantic Shores 1	761.6 + 748 = 1,509.6	Shell + EDF	06/30/2021	09/2027 + 04/2028
NJ	Ocean Wind 2	392 + 378 + 378 = 1,148	Ørsted + PSEG	06/30/2021	08/2028 + 10/2028 + 01/2029
NY	Empire Wind 2	1260	Equinor + BP	N/A <sup>4</sup>	N/A <sup>4</sup>
NY	Beacon Wind	1230	Equinor + BP	N/A <sup>4</sup>	N/A <sup>4</sup>
VA	CVOW Commercial <sup>5</sup>	2587	Dominion	application <sup>5</sup>	2027
MD	U.S. Wind 2	808.5	Renexia (80%)	12/17/2021	2026
MD	Skipjack Phase 2.1	846	Ørsted	12/17/2021	2026
MA	Mayflower 2	400	Shell + EDPR	N/A <sup>6</sup>	N/A <sup>6</sup>
MA	Commonwealth	1232	Avangrid	N/A <sup>6</sup>	N/A <sup>6</sup>
Total		17,014			

1. Original date of operation delayed due to delays in federal permitting.
2. Connecticut contract for Revolution Wind not located. Date estimated from Revolution Wind website.
3. Commercial Operation Date not listed in contracts. This date was taken from Table 7 in the DOE Offshore Wind Market Report: 2021 Edition (US DOE, 2021).
4. Not yet published by NYSERDA as of January 2022.
5. Application was filed as Case No. PUR-2021-000142 on 11/5/2021.
6. Not yet published by MA-DPU as of January 2022.