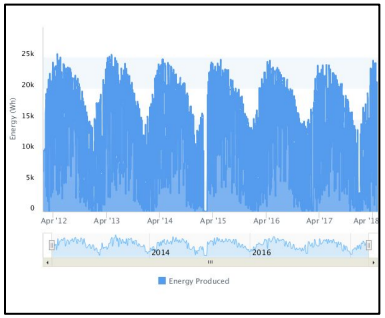
NH Energy System:

Clean Energy is Energy Affordability







Chris Skoglund
Clean Energy NH
September 15, 2026

CLEAN ENERGY NH
Your Voice in All Energy Matters

Change Can Happen Fast

5th Avenue, NYC, Easter **1900**
See any automobiles?

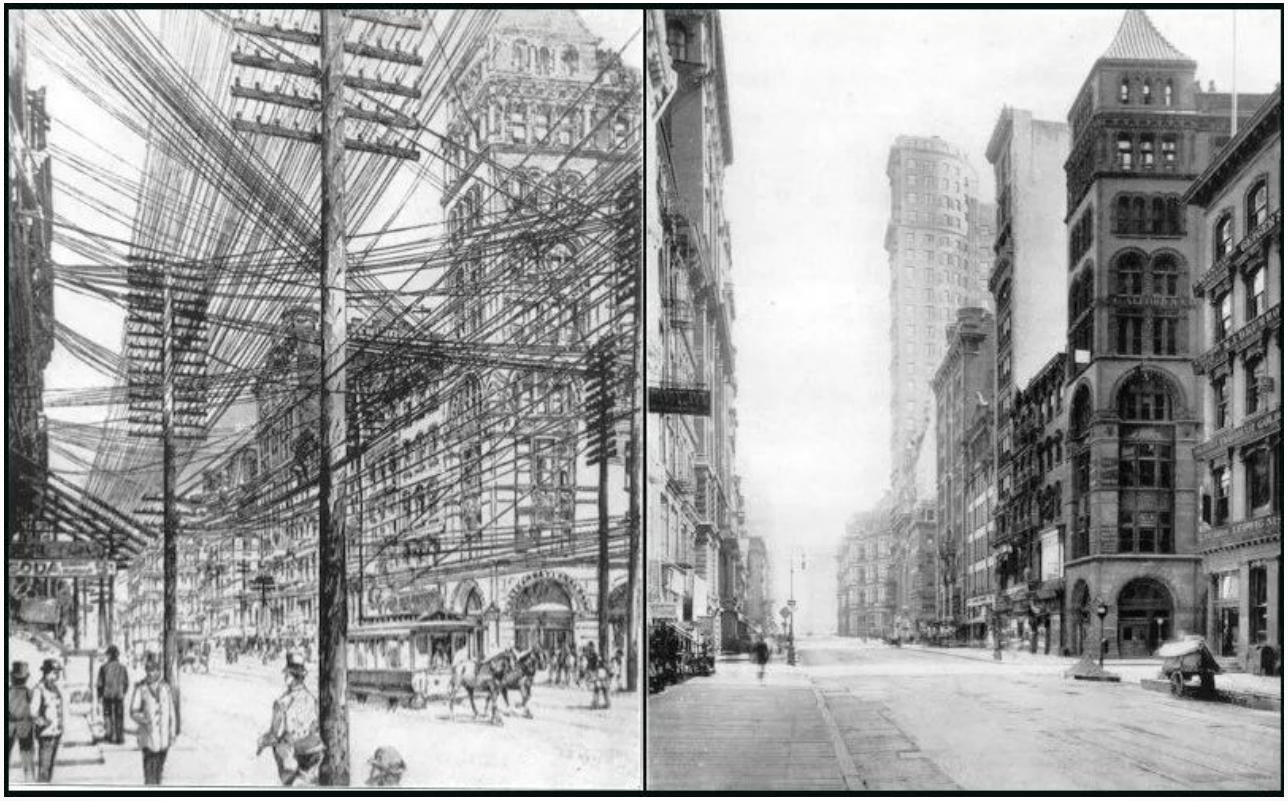


Park Avenue, NYC, Easter **1913**
See any horses?

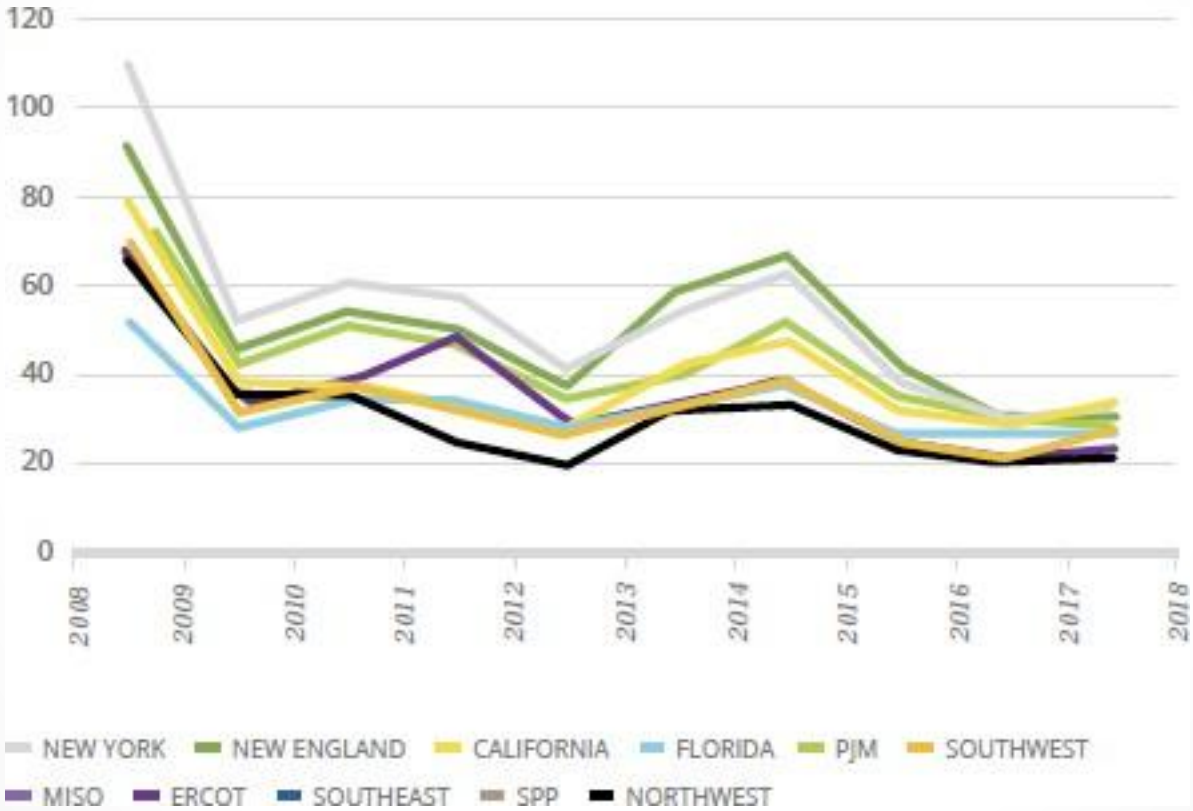


Source: Tony Seba

Change Can Be Awkward



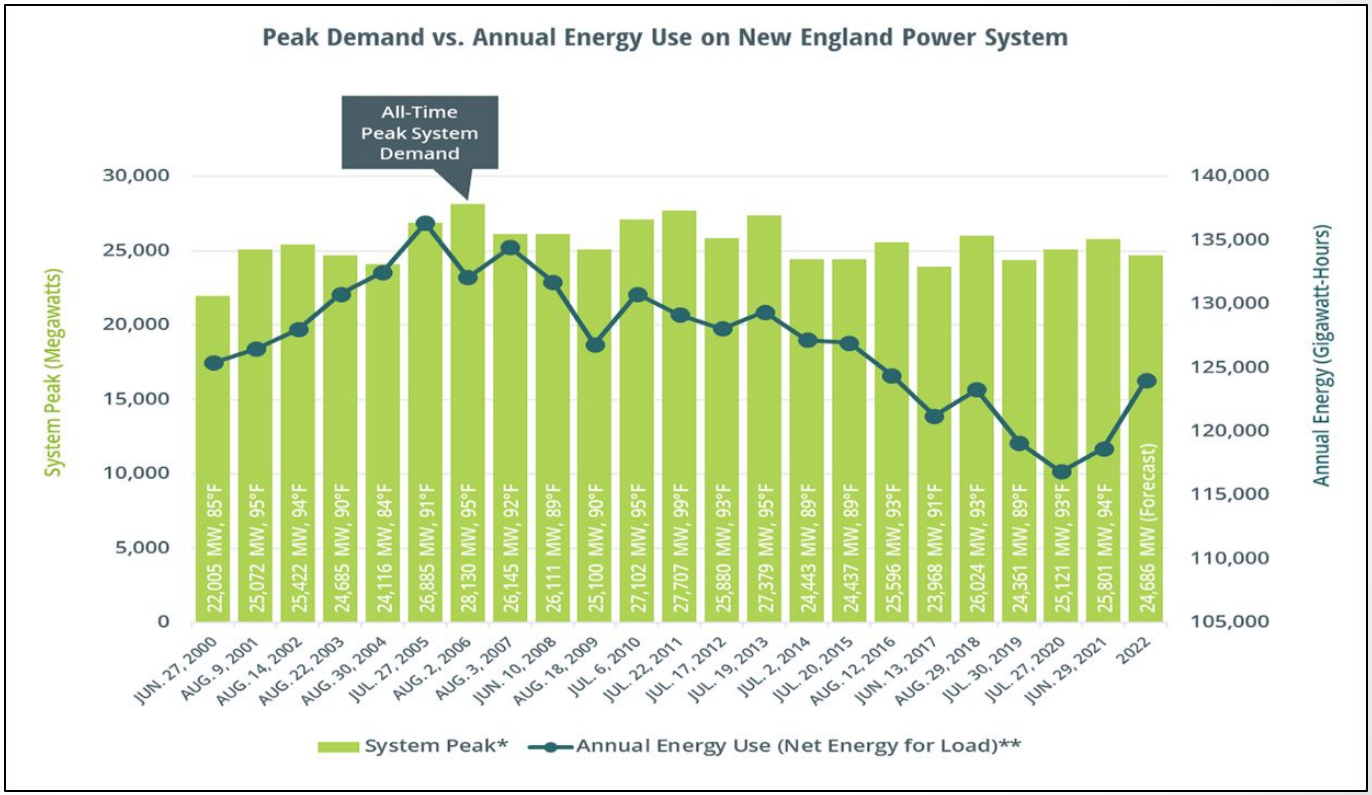
Why Are Our Electricity Rates So High?
National Wholesale Power Prices ($/MWh – real 2017)



Source: BNEF, 2018. Image taken from Goggin, et al, "Customer Focused and Clean: Power Markets for the Future. Wind Solar Alliance. November 2018.

New England Peak Demand & Total Electricity Consumption

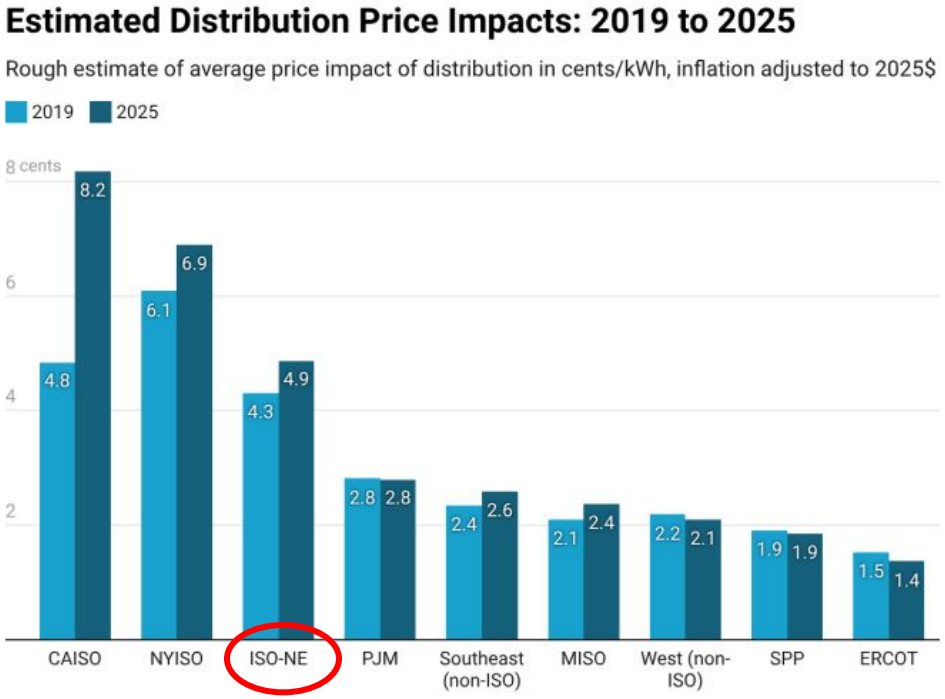
New England electricity consumption (blue line) and peak demand (green bar) have been well controlled.

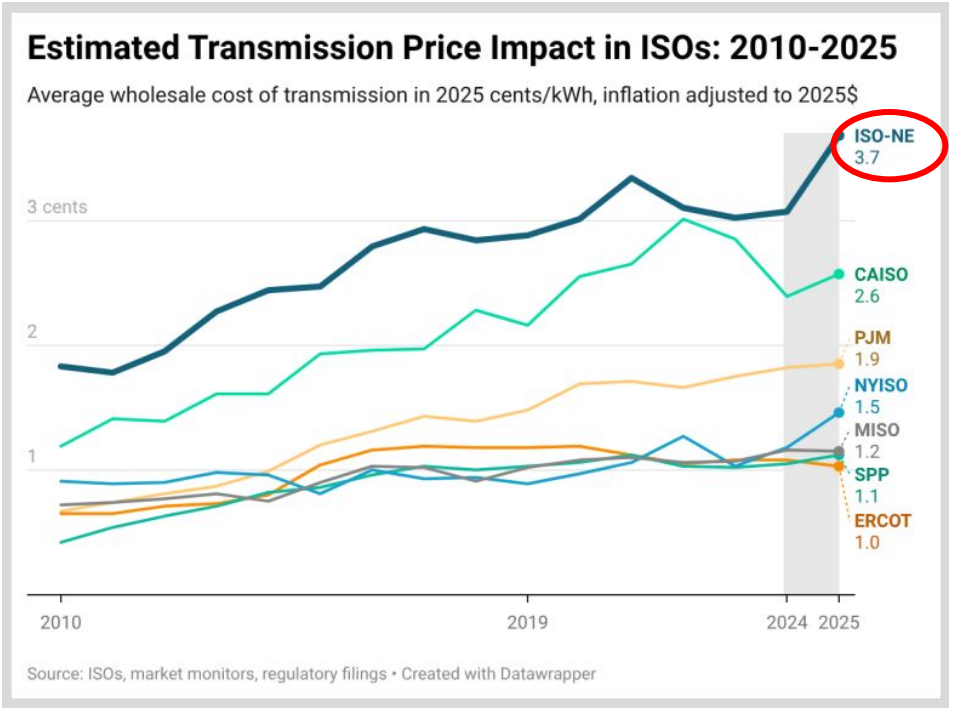


Source: ISO-NE, Electricity Use and Demand, November 2022 https://www.iso-ne.com/about/key-stats/electricity-use/

THE CORE FRAME

Why Are Our Electricity Rates So High? (high voltage) Poles and Wires



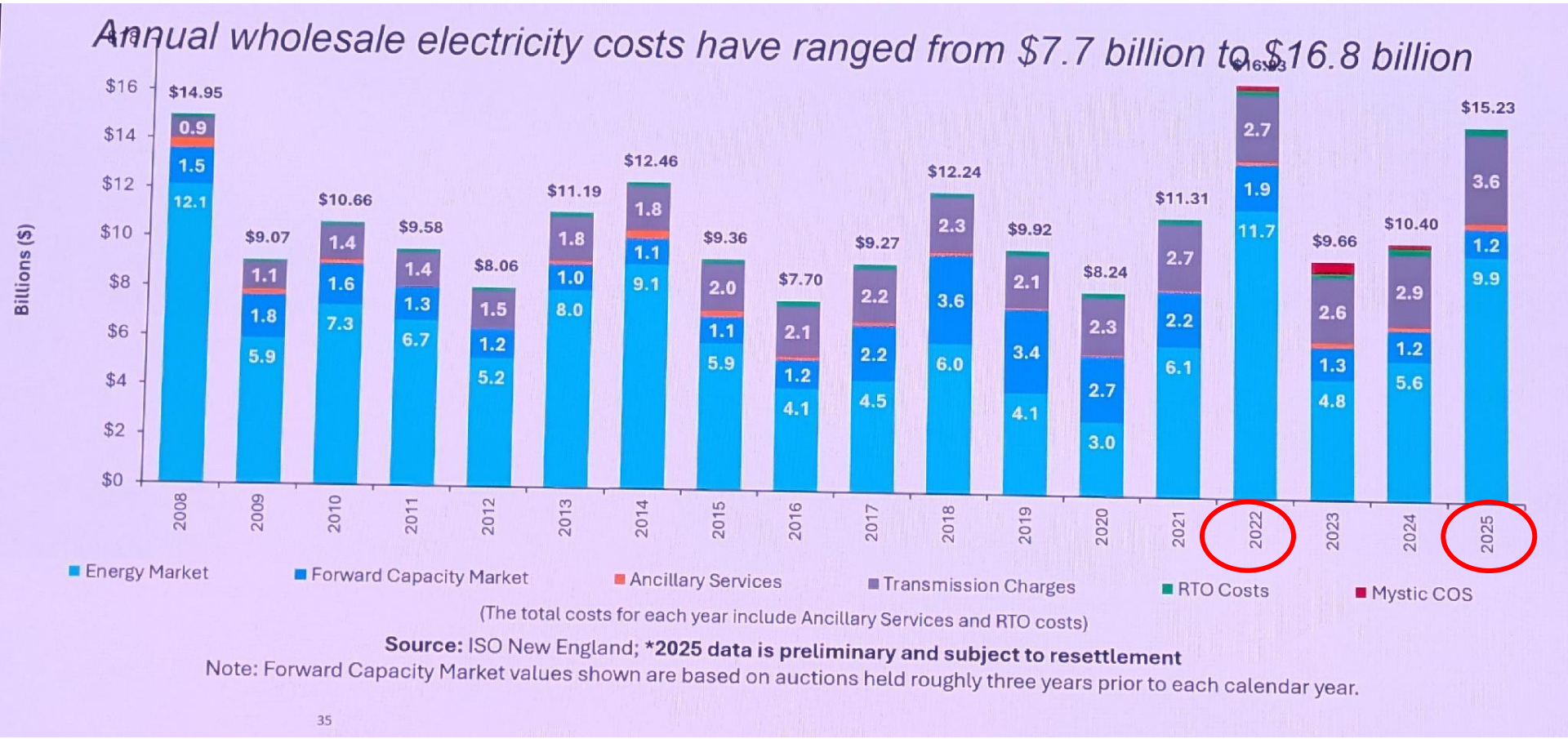


"Small" Poles & Wires through neighborhoods and communities

"Large" Poles & Wires across long distances

THE CORE FRAME

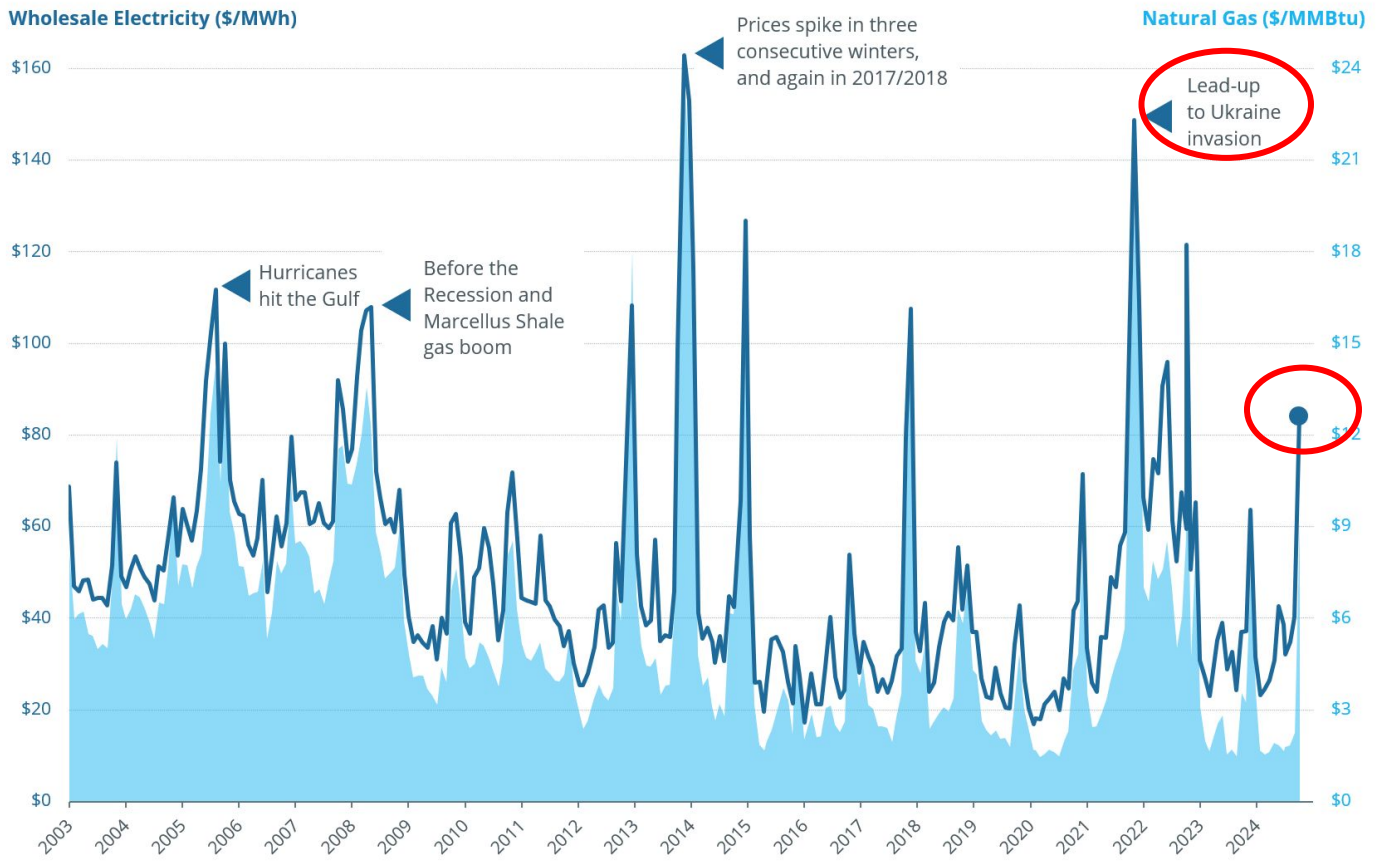
Why Are Our Electricity Rates So High? Poles and Wires… and Natural Gas



New England Power Supply Affected By Natural Gas Price
Geopolitical & Weather Impacts

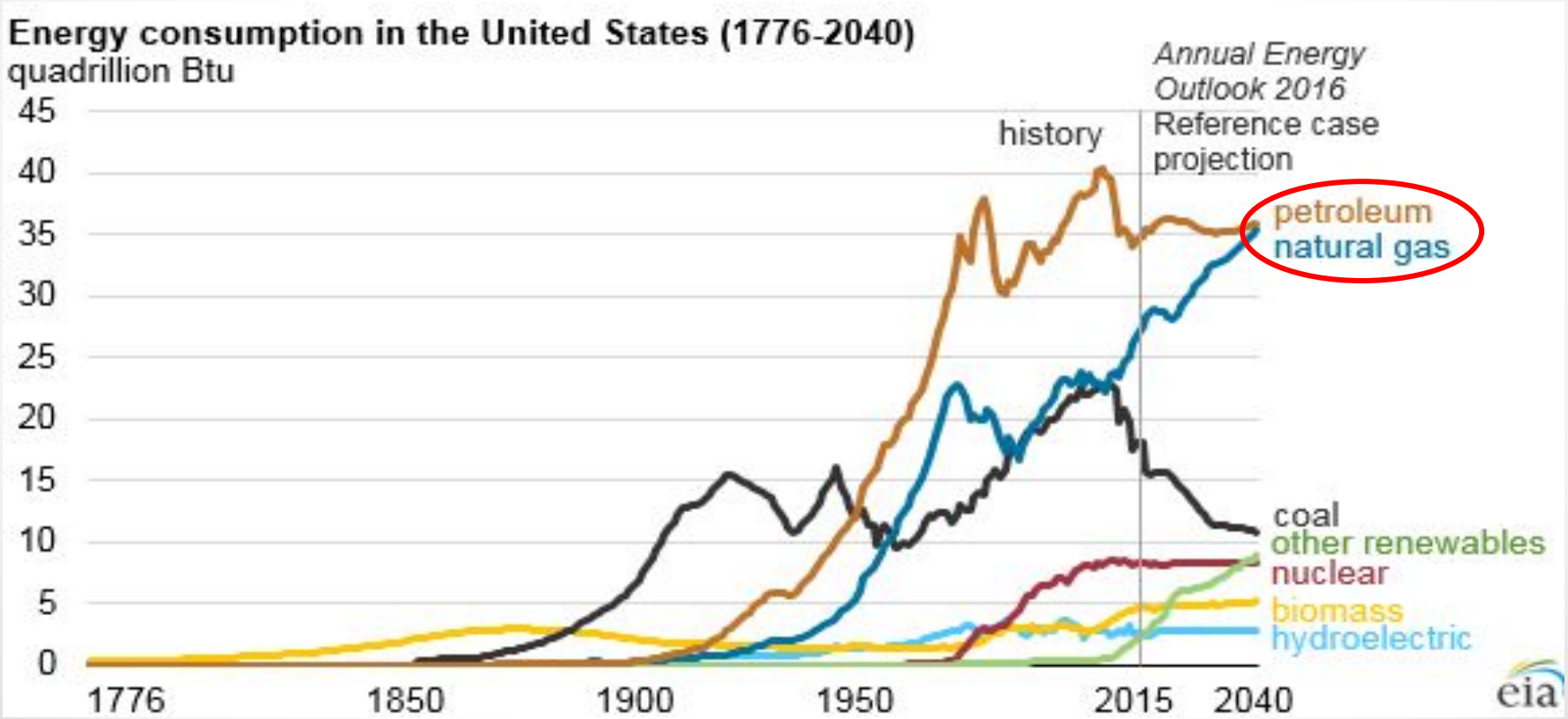
THE CORE FRAME

Why Are Our Electricity Rates So High? Natural Gas



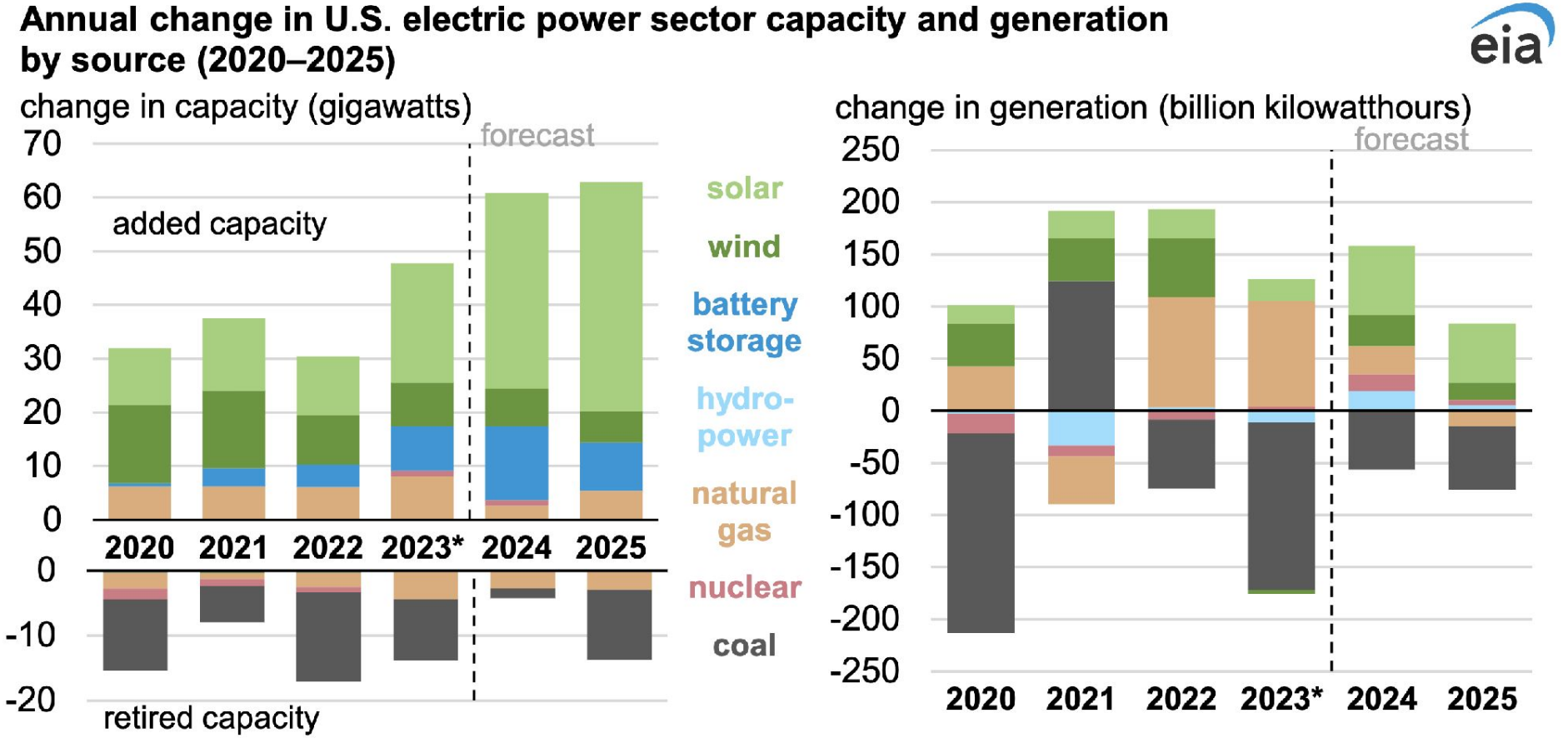
New England Power Supply Affected By Natural Gas Price
Geopolitical & Weather Impacts

US Energy Consumption
1776 – 2015/2040

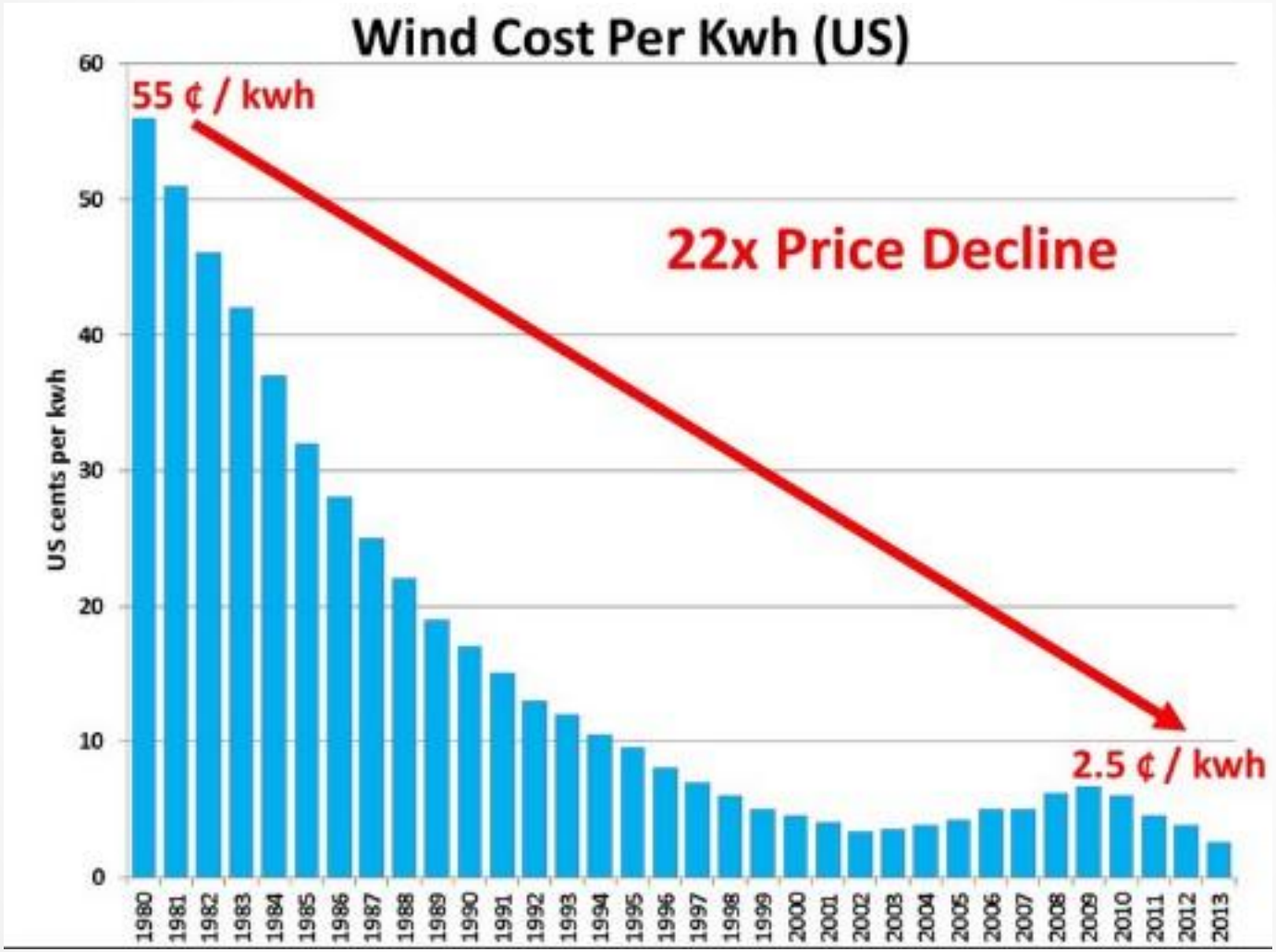


The Past Is Not a Predictor of The Future

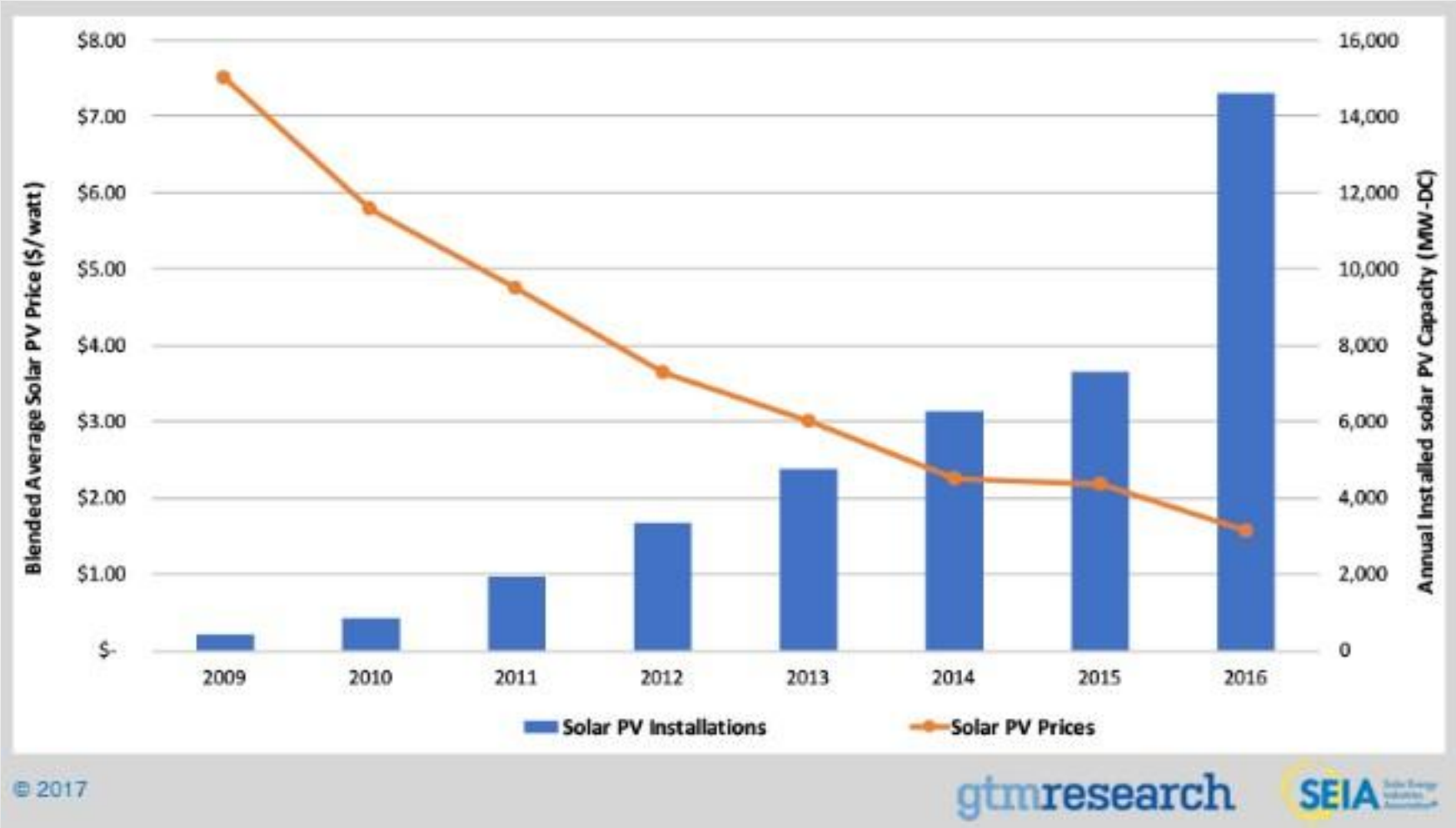
Nearly All New US Energy Projects Built From 2020-2025 Was Clean Energy Resources



Wind Costs Dropped a Decade Ago

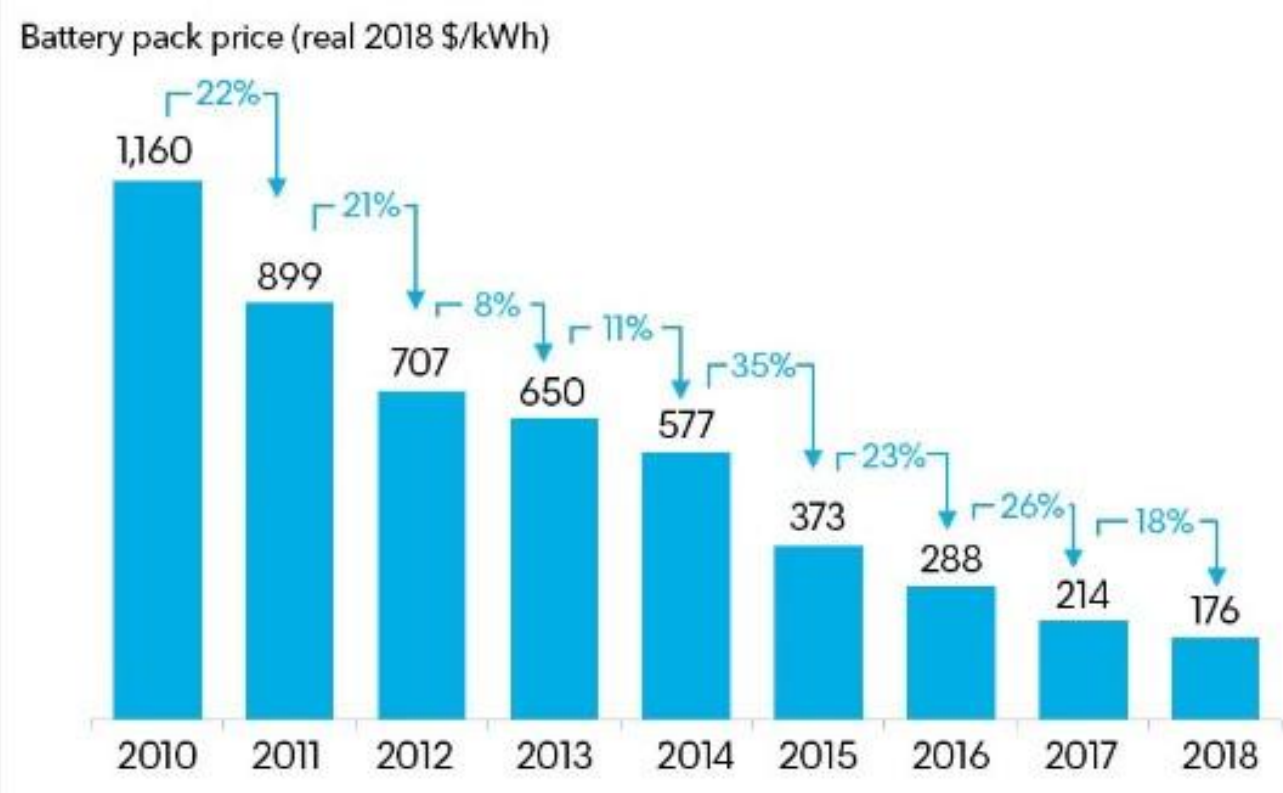


Solar Is Following Close Behind



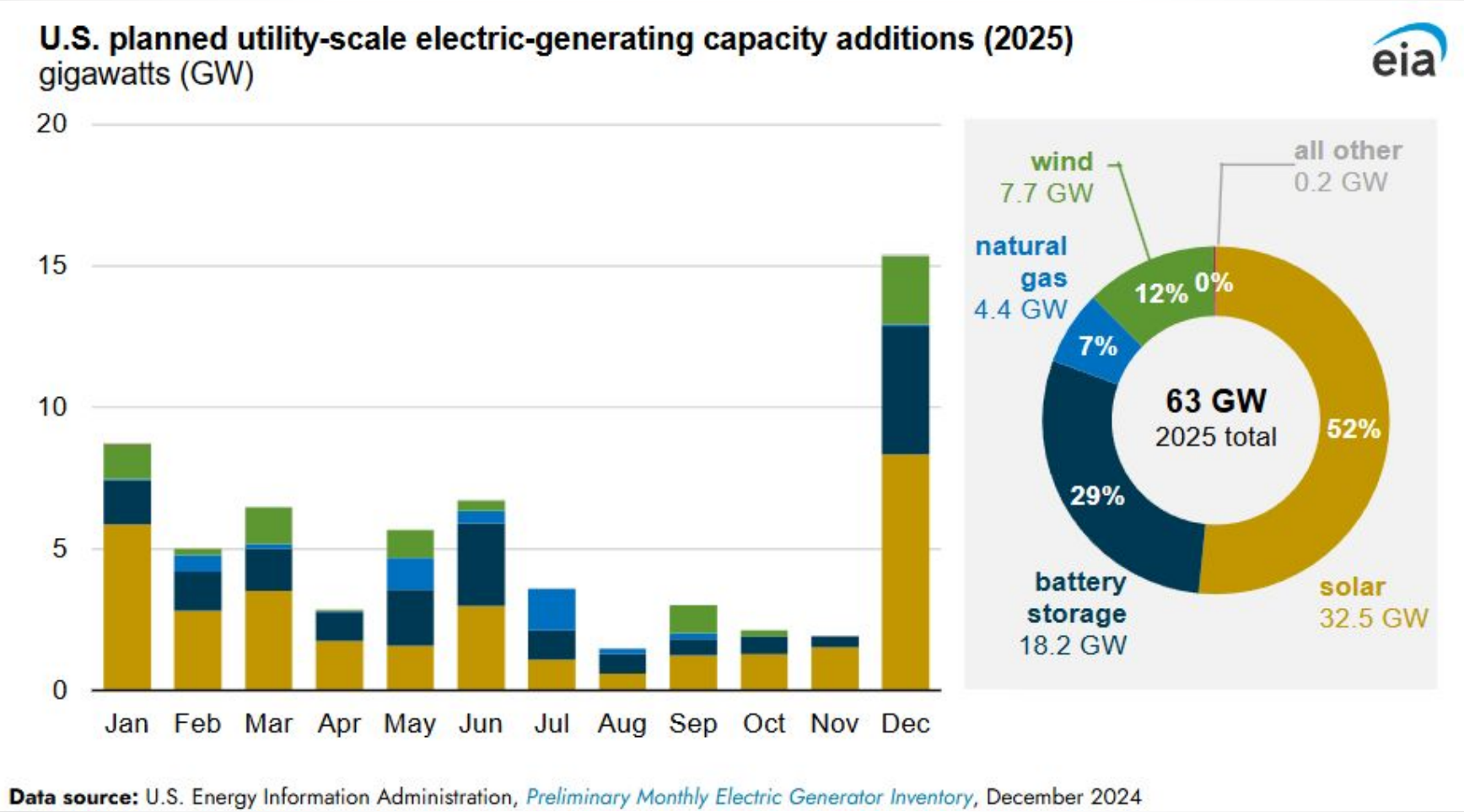
Source: Solar Energy Industry Association

Electric Battery Storage Prices Have Fallen

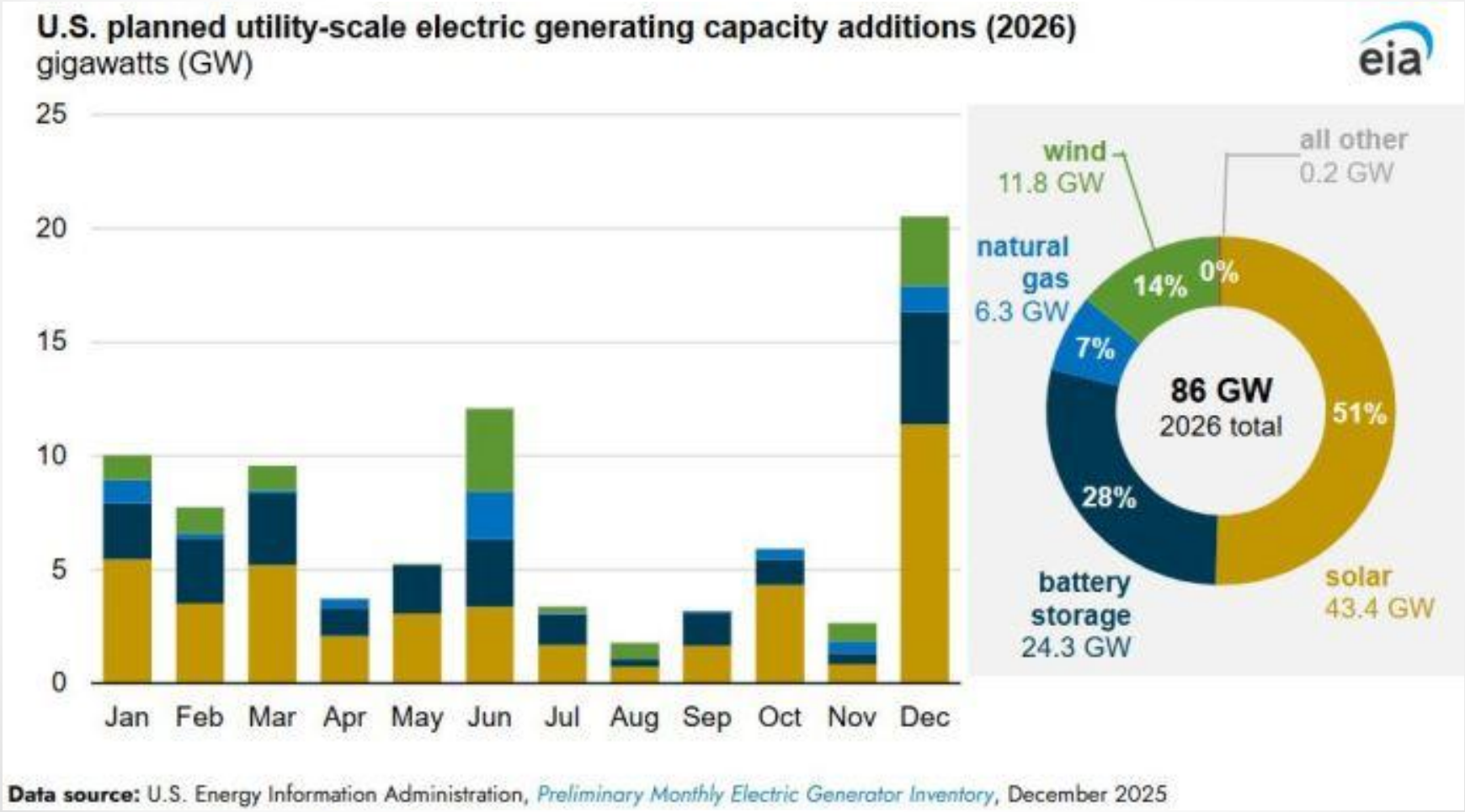


Source: Bloomberg NEF. Data adjusted to be in real 2018 dollars.

Nearly All New US Energy Projects Built In 2025 Was Clean Energy Resources



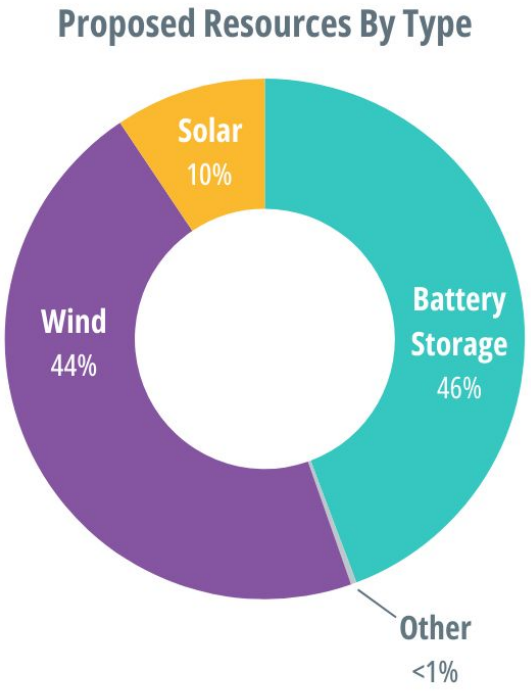
Nearly All <u>New US</u> Energy Projects Built In 2026 WIL BE Clean Energy Resources

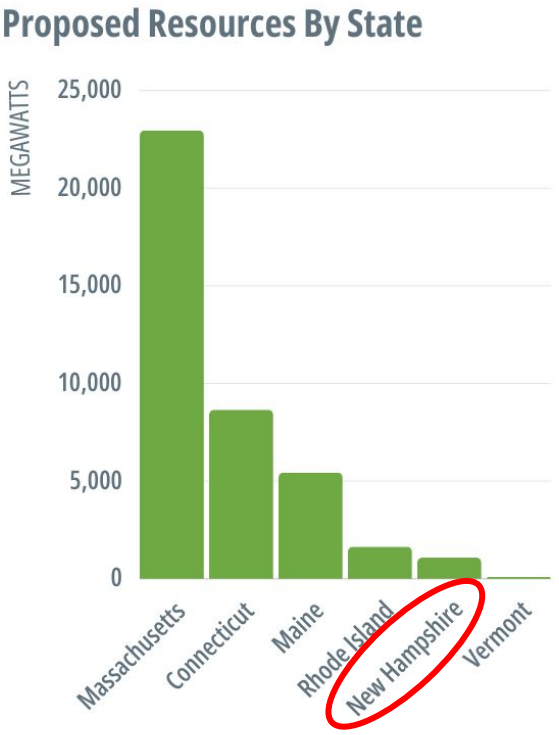


Not All Locations Are Equal

State Energy Policy Matters

2024 Forecast – 45,000 MW/45GW



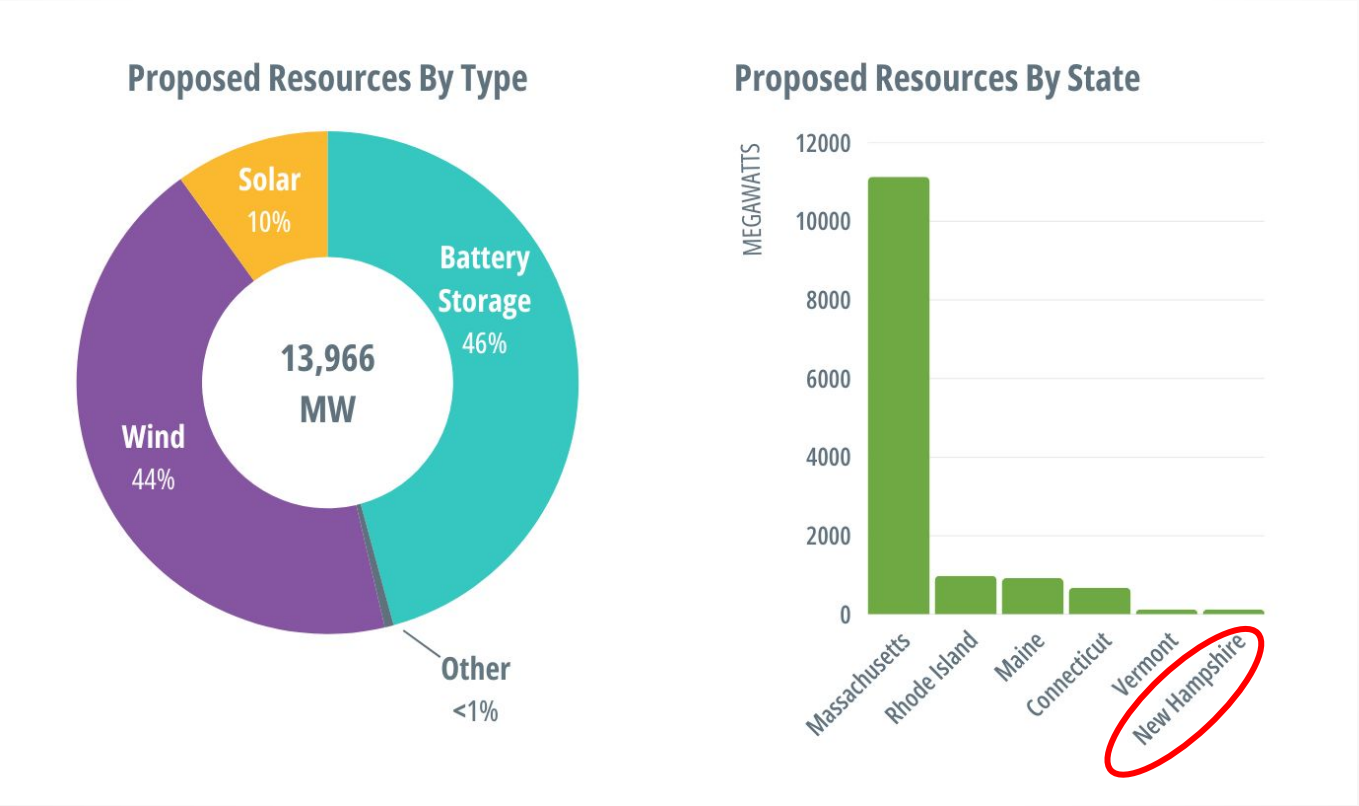


Source: ISO Generator Interconnection Queue (January 2024); FERC and Non-FERC Jurisdictional Proposals; Nameplate Capacity Ratings

Not All Locations Are Equal

State & Federal Energy Policy Matters

2026 Forecast – 14,000 MW/14 GW



Post OBBBA of 2025 led to deeply reduced investment.

Final 2022-2031 PV Forecast Nameplate Capacity (MW)

States	Thru 2021	2022	
CT	809.1	113.4	
MA	2953.4	448.8	
ME	125.1	107.8	
NH	156.9	30.0	
RI	288.4	52.1	
VT	434.2	28.5	
Regional - Annual (MW)	4767.1	780.6	
Regional - Cumulative (MW)	4767.1	5547.6	

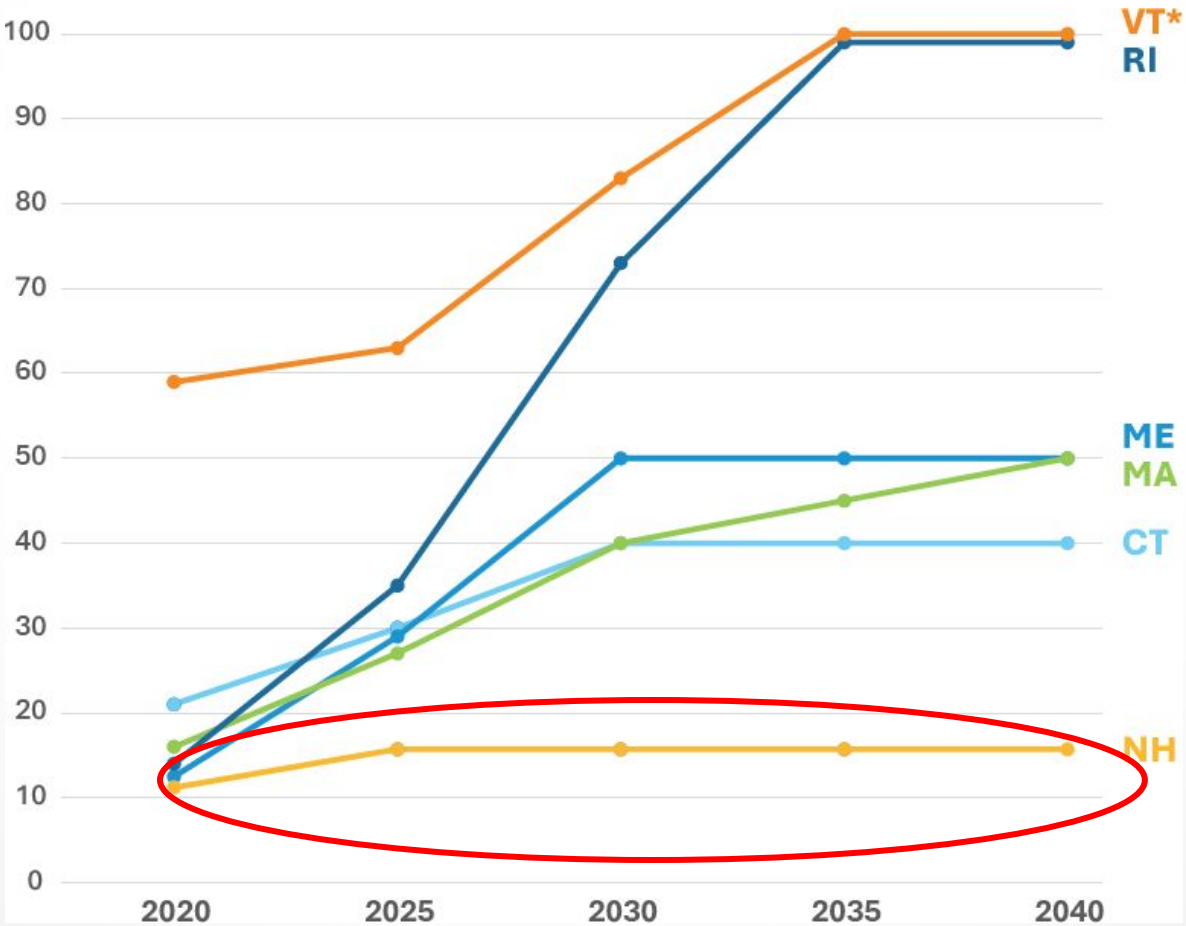
States	2031	Totals
CT	35.9	1,379.9
MA	283.4	6,527.3
ME	25.5	1,241.1
NH	26.8	429.8
RI	39.2	748.5
VT	25.5	693.7
Regional - Annual (MW)	487.3	11,520.4
Regional - Cumulative (MW)	11520.4	11,520.4

Source: ISO-NE, Final 2022 PV Forecast Presentation, April 28, 2022

Not All Locations Are Equal

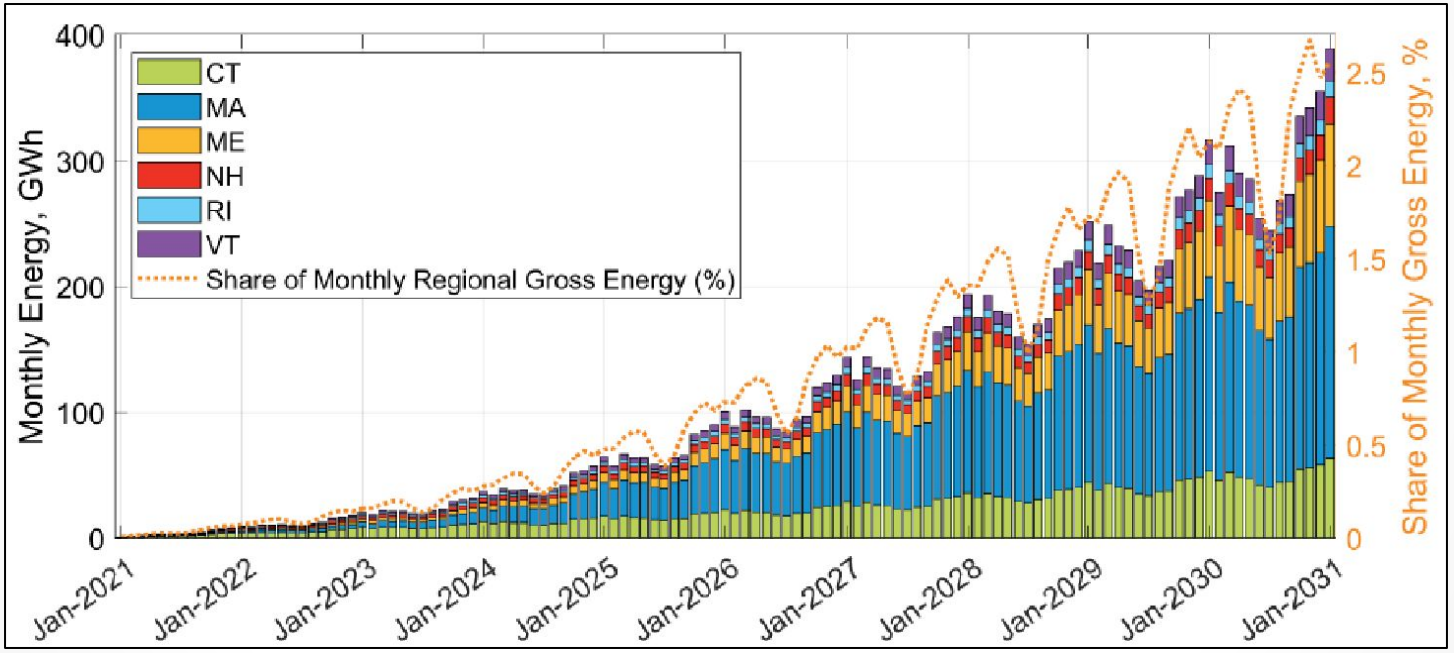
State Energy Policy Matters

State Renewable Portfolio Standards Are Rising



Pressure: EVs Will Soon to Reach Price Parity

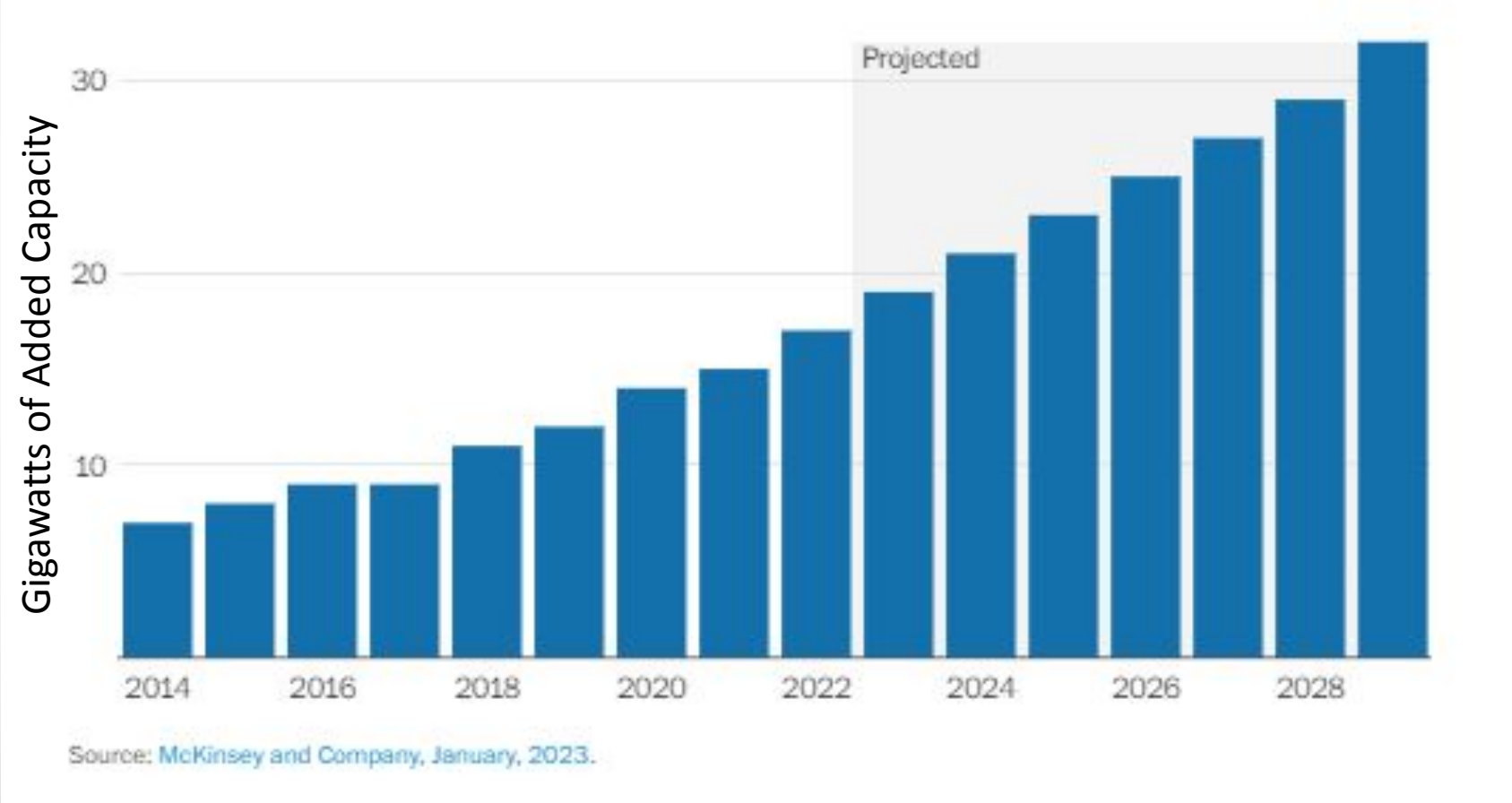
Increase Electricity Consumption



ISO-NE (2021). 2021 Final Transportation Electrification Forecast, ISO-New England, Forecast Report of Capacity, Energy, Loads, and Transmission, April 30, 2021.

Pressure: US Data Centers Growth

Tax The Power Grid



Generate More Local Energy

1

Community Solar

Lets renters, condo owners & low-income residents access solar savings without a rooftop. Deploys solar at lower cost compared to rooftop solar

Possible Bills:

- Expand Community Solar Access Act — raise subscriber limits, prioritize low-income households, streamline off-taker procedures
- Net Metering Reform Bill — update compensation to reflect full grid value of local generation. Encourage solar paired with grid scale storage

Rooftop Solar

Rooftop Solar in the US costs 2-3X what it costs in other developed countries, mostly due to soft costs

Possible Bills:

- Enable instant, virtual third party permitting and inspections.
- Require utilities to adopt automatic interconnection approval for low-complexity projects.
- Allow the use of meter collar adapters as an approved interconnection method

🏠 Right to Generate

Homeowners and renters should be able to generate and share their own power freely

Possible Bills:

- Build on the inevitable success of balcony solar this year to update this law once we have a national listing. Allow small plug-in solar units in apartments and condos
- HOA Solar Non-Discrimination — prohibit HOAs from blocking rooftop installations
- Repeal arbitrary noise level restrictions on wind power generation

Local generation = locked-in low prices for NH ratepayers for decades

Get More Out of the Grid

The grid must be sized for **peak hours** — just a few dozen hours per year. Storage and demand flexibility reduce those peaks, cutting costs for **everyone** — including people who own no new technology.

🔋 Battery Storage Incentives

Possible Bills:

- Increase System Benefit Charge funded budgets for battery storage demand response programs specifically
- Ensure that new net metering programs include value-based compensation for customer-owned storage
- Encourage utility and IPP investment in utility-scale storage as part of distribution planning and regional market reforms

⚡ Virtual Power Plants

Possible Bills:

- Create a "grid utilization" target for all utilities, tied to ROE penalties for non-attainment and bonuses for excellent execution
- Mandate the creation of state-wide coordinated VPP programs and uniform offers, ala NHSaves
- Require utilities to pursue a "distributed capacity procurement"

🏘 Price Signals

Possible Bills:

- Require a top-to-bottom reform of utility time-of-use rates. Include minimum on-peak to off-peak ratios
- Consider opt-out TOU rates
- Reform demand charges so that they are at least based on demand during peak periods, if not coincident peak
- Require utilities change billing and load settlement practices to enable "settling to the meter." Allow customers to adopt smart meters at their own cost

DoE: expanding VPPs to 80–160 GW could save $10 billion in annual US grid costs

Use Less Energy

3

Efficiency is the cheapest energy we have. Every unit saved is one less unit to generate, transmit, or import — delivering permanent savings to every NH household.

🏠 Building Codes & Weatherization

New buildings built to weak codes lock in high energy costs for decades. Retrofits cut bills for homeowners right now.

Possible Bills:

- NH Building Energy Code Adoption Act — adopt and enforce current IECC codes for new construction statewide
- Weatherization Expansion Act — seeks out new NHSaves funding sources to expand the “fuel neutral” insulation and air sealing programs, prioritizing LMI households.

Heat Pump Deployment

Building heat is NH's largest untapped efficiency opportunity. Hybrid heat pumps cut bills without straining the winter grid.

Possible Bills:

- Heat Optimization Act — require NHSaves to create programs pairing electric heat pumps with fossil backup on a single thermostat to limit winter peak grid stress and save consumers money.
- Geothermal Access Act — require NHSaves rebate parity between ground source and air source heat pumps. Direct the DOE to prioritize geothermal deployment in use of the REF fund programs.

⏰ Peak-Smart Efficiency

NH's cost exposure is worst on winter peak mornings. Efficiency programs must target those hours — not just annual consumption.

Possible Bills:

- Peak-Hour Efficiency Targeting Act — require NHSaves to prioritize measures that reduce both winter electric demand during peak hours and summer cooling peak hours.
- Clean Energy Workforce Act — expand CTE and apprenticeship programs in weatherization, heat pumps, and grid trades

Efficiency and heat pump programs must be designed around NH's grid — targeting winter peak hours, not just annual kWh

MESSAGING GUIDE

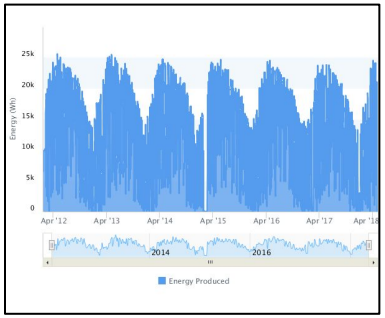
How to Talk About Energy

PILLAR	AT THE DOOR	WHEN THEY SAY "RENEWABLES COST MORE"	THE CLOSE
🌞 **Generate Local Energy**	*"NH sends billions of dollars out of state to pay for fossil fuels every year. Local renewables keep that money here — in our towns, for our neighbors."*	*"The data shows the opposite. It's gas prices — not solar — that spiked your bill in 2022. We need to reduce our exposure to the global energy shocks that are happening more often."*	*"Every NH family deserves the right to have affordable, abundant, clean energy."*
⚡ **Grid Efficiency**	*"The electric grid is already overbuilt, and if we make it smarter we can get more out of the grid we've already paid for. We can make energy cheaper and cleaner."*	*"Grid upgrades raise only bills when utilities build more than needed. If we use the grid we already have, at times it's not being used, we all save money."*	*"A grid that works smarter is a grid that costs less — and makes NH more resilient when the next storm hits."*
💡 **Use Less Energy**	*"Weatherizing a home saves money every single month — especially when foreign powers attack each other or block the Straight of Hormuz. The cheapest energy is the energy you never use.*	*"Efficiency doesn't drive up rates — it drives down bills. Fewer peak-hour kilowatts means less we don't need to build out the grid as much."*	*"Making homes more efficient is the one energy investment that creates local NH jobs, lowers bills immediately, and insulates us from geopolitical energy price shocks."*

CLEAN ENERGY NH

Your Voice in All Energy Matters







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