S.9, An Act Creating a Next Generation Roadmap for Massachusetts Climate Policy

- GWSA Updates
- Offshore Wind
- EE Building Code
- Environmental Justice
2050 Decarbonization Roadmap

- Examined 8 economy-wide decarbonization scenarios through 2050
- Provides technologies, implementation options and overall cost
- Summary Report + six technical reports, each detailing analysis and detailed conclusions by sector (energy supply, transportation, buildings, non-energy, land use, economic and health impacts)
- EEA used results of 2050 Roadmap Study analysis to develop cost-effective climate strategy for the current decade
2050 Roadmap: Top-Level Findings

Massachusetts *can* achieve our 2050 climate goals, and if we are smart about our approach and the strategies we select:

- Can do so affordably
- Maintain a thriving economy
- Ensure we bring everyone along, especially our most vulnerable residents
2050 Roadmap: Key Findings

Commonwealth has a range of options, but the most cost-effective, low-risk pathways share core elements:

- A balanced clean energy portfolio anchored by a significant offshore wind resource
- More interstate transmission to allow us to access renewable generation in other states and in Canada
- Widespread electrification of transportation and building heat
- Reduce cost by replacing energy infrastructure at end of service life.
How Do We Get to 2030?

- **New Buildings**: Highly-efficient new construction
- **Existing Buildings**: ~1,000,000 Homes and ~350 million sq-ft of commercial property retrofitted with clean heating, high-efficiency insulation
- **Building Heat**: Fewer residential and commercial gas customers than today

- **Light-Duty**: Over 750,000 new EVs cars & trucks on the road
- **Med. & Heavy**: >2,000 new ZEVs on the road + cleaner diesel fuel blends
- **Miles Travelled**: 15% reduction in light-duty commuter miles traveled

- **Generation**: 6,000 MW of new clean energy built and interconnected
- **Transmission**: First of several new regional transmission lines operational
- **System**: New ISO-NE transmission planning & clean energy markets are ready to add 1GW offshore wind & 500MW of solar every year, plus 2 or 3 more large transmission lines, through 2050
Senate Bill 9: Next Steps
83C Offshore Wind Procurements

• On March 11, 2021, DOER filed the next offshore wind RFP with the DPU for approval
  • Proposals up to 1600 MW
  • New provisions related to diversity, equity, inclusion, and environmental justice
  • Enhanced criteria for economic development

• Pending DPU approval, DOER is working to release final RFP in May, 2021.
Wholesale Market Reform

2020: New England states agreed to pursue structural changes to the wholesale power market and released a joint “Vision Statement” articulating the need for these changes to the public.

Winter 2021: Technical sessions were held by states around four reform areas: System operator governance, wholesale electricity markets, transmission planning, and environmental justice.

Through this process, states have heard from national and international experts:

1. ISO New England must adopt a governance structure that accommodates greater transparency and better reflects states.
2. The region should adopt a technology-neutral forward clean energy market model.
3. The region needs to engage in forward looking, scenario-based long-term transmission planning to meet the energy needs of the future, and siting around this infrastructure must accommodate greater participation from EJ voices.
First-in-the-Nation Commission on Clean Heat

• Baker-Polito Administration will convene a Commission of stakeholders representing a wide range of impacted parties and experts across the built environment.

• Group provide recommendations to the Governor around the future of Clean Heat for the Commonwealth.

• In 2021, Commission to focus on informing a long-term, declining caps on heating fuel emissions (gas, oil, propane) to be established in regulations by MassDEP in 2022.

• In 2022, Commission to focus on development of supporting policies to transition towards Clean Heat and meet the cap.

• Commission will be convened in May/June, supported by an inter-agency Task Force on Clean Heat made up of staff at DOER, MassDEP, DPU, HED, and MassCEC.
Future of Natural Gas Investigation

**October 2020:** DPU issued Order opening investigation into the role of local natural gas distribution companies in the future of the Commonwealth’s energy portfolio.

- As part of the investigation, DPU will assess the role of gas companies in ensuring a low-carbon future and explore strategies that enable the Commonwealth to achieve Net Zero by 2050 while **safeguarding ratepayer interests and securing safe, reliable, and affordable natural gas service.**

- Work will dovetail with Administration’s 2050 Decarbonization Roadmap and the 2030 Clean Energy and Climate Plan.
2022-2024 Energy Efficiency Plan Priorities

Planning underway, to be filed with DPU in October 2021

Align Energy Efficiency with Massachusetts climate goals, including:

• Expanding electrification, weatherization, and deeper efficiency measures
• Strategically phase out fossil fuel heating incentives

Improve Program Equity, through increased investment in workforce development and dedicated strategies to increase participation from:

• Moderate income customers
• Renter/landlords
• Customers with English isolation
• Small businesses
• Environmental Justice communities
Energy Storage

• Launched the Energy Storage Initiative in 2015
• Committed $20 million in Energy Storage Grants
• First-in-the-nation to include an energy storage incentive in the SMART Program and the statewide Energy Efficiency Program.
• Commenced the Clean Peak Energy Standard (CPS)
On December 21, 2020, Massachusetts, Connecticut, Rhode Island, and Washington, D.C. signed a bipartisan Transportation and Climate Initiative Program (TCI-P) MOU committing to a groundbreaking multi-state program that will cap and reduce emissions from transportation by 26% by 2032 while raising $1.8 billion for clean transportation investments.

Invest in equitable, cleaner transportation options, and create significant new employment opportunities

Substantially improve public health across the Commonwealth and New England.
THANK YOU