



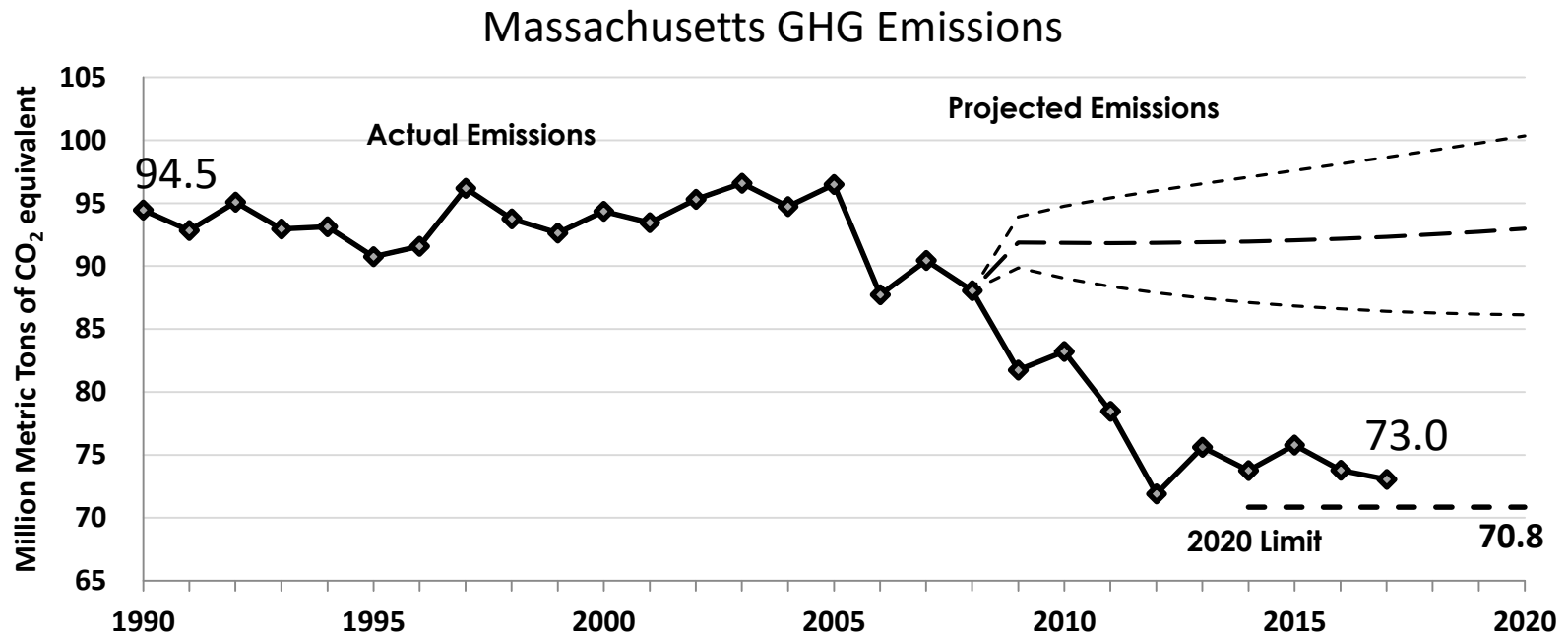
ECOS STEP Panel

Massachusetts Climate Mitigation Updates

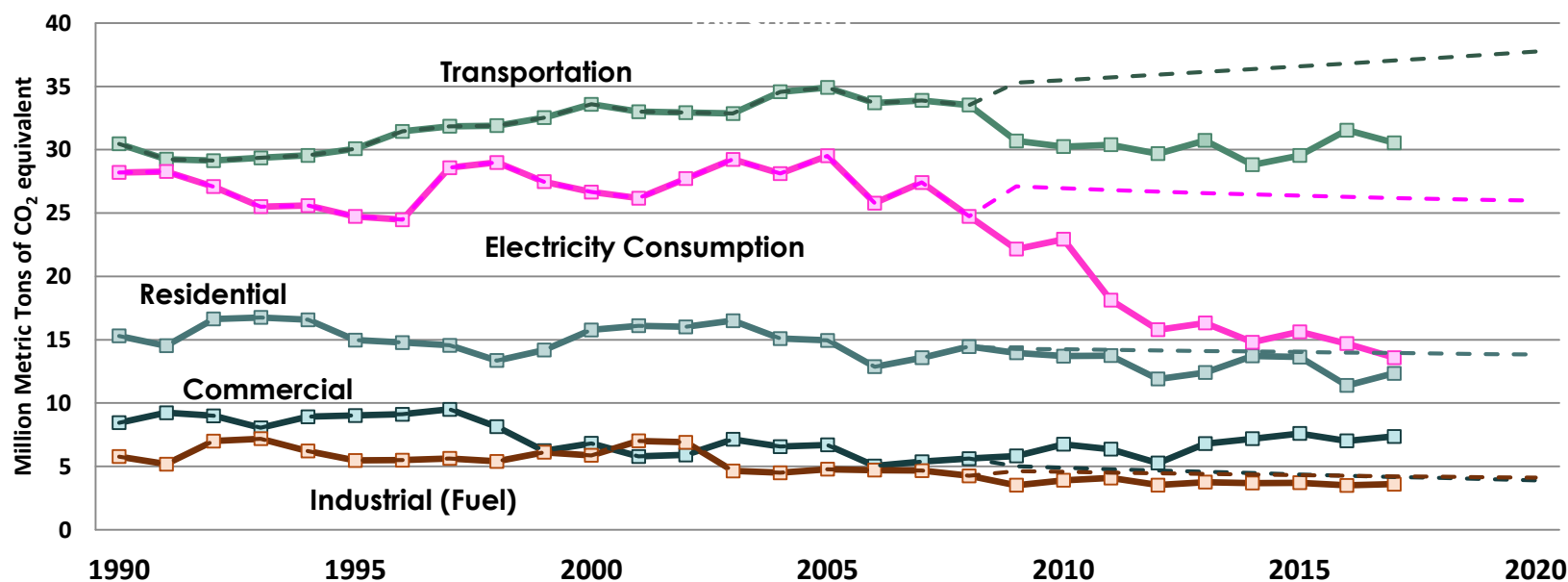
Stephanie Cooper
Deputy Commissioner,
Policy & Planning

JULY 14, 2021

Massachusetts Greenhouse Gas Emissions Inventory



Greenhouse Gas Emissions Trends by Sector



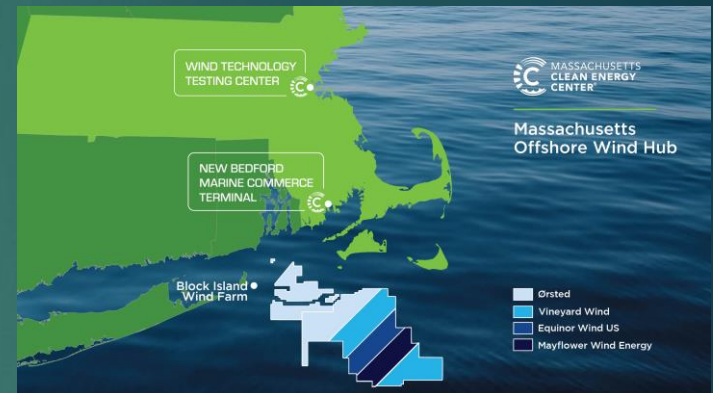
2021 Climate Law: Next Generation Roadmap for Massachusetts Climate Policy

- ▶ Commits Massachusetts to achieve Net Zero emissions in 2050.
- ▶ Updates GHG emissions limits - 50% GHG reduction from 1990 level for 2030 and 75% by 2040.
- ▶ By July 1, 2022, requires adoption of 2025 and 2030 emissions limits and plans to achieve 2030 goal. Directs setting of sublimits for six sectors:
 - ▶ Electric power
 - ▶ Transportation
 - ▶ Commercial and industrial heating/cooling
 - ▶ Residential heating/cooling
 - ▶ Industrial processes
 - ▶ Natural gas distribution and service.



Next Generation Roadmap Highlights

- ▶ Opt-in Building Code for “Net-Zero” buildings
- ▶ Clean Energy Utility Requirements
 - ▶ Increasing renewable energy portfolio
 - ▶ Securing 2,400 more megawatts of wind power
- ▶ Energy Efficiency Standards for Household Appliances
- ▶ More Solar Incentives
- ▶ Electric Vehicles & Charging Station Targets
- ▶ Clean Energy Workforce Development



Environmental Justice

- ▶ New Climate Law codifies EJ population and Environmental Burdens definitions; establishes EJ Council.
- ▶ EJ requirements for state environmental review (Massachusetts Environmental Policy Act)
 - ▶ Enhanced Public Participation
 - ▶ Language translation and access
 - ▶ Enhanced Project Evaluation
 - ▶ For projects within 1 mile of an EJ population or 5 miles for air quality impacts



Environmental Justice: Cumulative Impact Assessment

- ▶ Cumulative Impact Assessment for Environmental Review:
 - ▶ Required of “any existing unfair or inequitable environmental burden” on EJ populations from “any prior or current private, industrial, commercial, state, or municipal operation or project that has damaged the environment”
- ▶ Cumulative Impact Assessment for Air Quality Permits:
 - ▶ MassDEP developing for certain air quality permits. New Climate Law requires regulations to be proposed by Fall 2022.



MassDEP Climate Mitigation Programs

- ▶ Low Emission Vehicle Program
- ▶ Electric Power Sector
 - ▶ Regional GHG Initiative "RGGI"
 - ▶ State Power Plant Auction
 - ▶ Clean Energy Standard
- ▶ Natural Gas Infrastructure
- ▶ Refrigerants



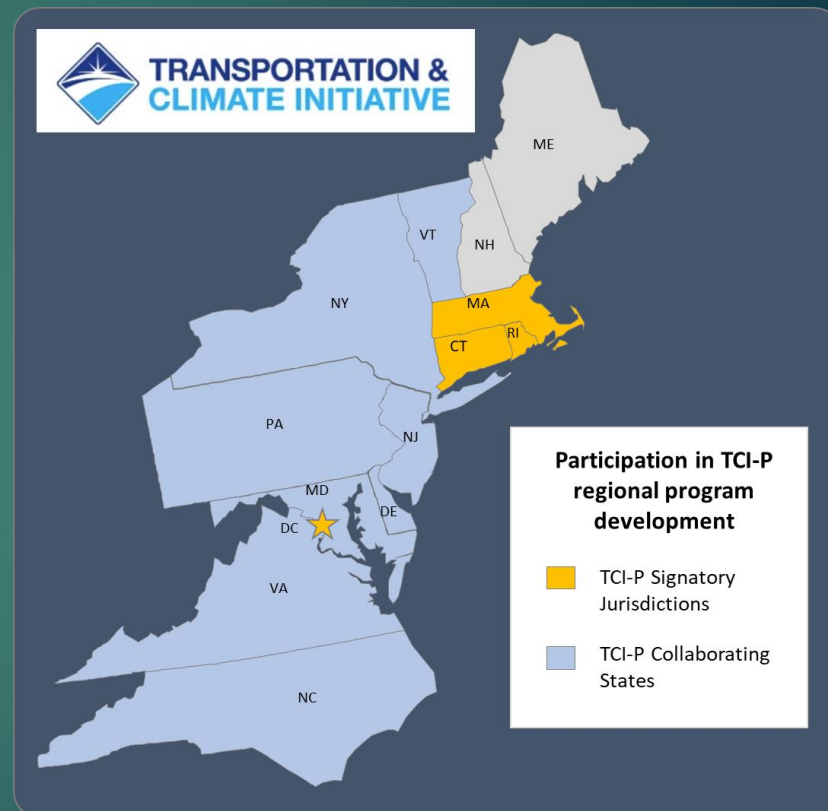
2030 Climate Plan: MassDEP Priorities



- ▶ Adopt California's vehicle rules
- ▶ Adjust power sector regulations for consistency with 2030 emissions limit
- ▶ Develop a long-term declining cap on heating fuels, informed by future advisory commission.
- ▶ Update GHG emissions inventory and 1990 Baseline
- ▶ Explore options for reducing commuting Vehicle Miles Traveled by 15%
- ▶ Pursue a regional low carbon fuel standard

Transportation & Climate Initiative Program (TCI-P)

- ▶ Transportation is 40% of emissions in the region
- ▶ Cap & Invest - Transportation sector GHG limit declines over time.
- ▶ State Fuel Suppliers will be required to obtain allowances through auctions to cover carbon emissions.
- ▶ Proceeds invested in clean transportation
 - ▶ Prioritize overburdened & underserved communities



Resources

- ▶ MA Decarbonization Roadmap
<https://www.mass.gov/info-details/ma-decarbonization-roadmap>
- ▶ Clean Energy and Climate Plan for 2030
<https://www.mass.gov/info-details/massachusetts-clean-energy-and-climate-plan-for-2030>
- ▶ MassDEP's Climate Work
<https://www.mass.gov/guides/massdeps-climate-work>
- ▶ Contact: Stephanie Cooper, Deputy Commissioner
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