



GWSA Implementation Advisory Committee (IAC) Meeting

September 29th, 2023

Executive Office of Energy & Environmental Affairs



Agenda

1. Review of Meeting Minutes
2. Updates and Introductions
3. Climate Pollution Reduction Grant (CPRG) Development of Priority Measures
4. IAC Work Group Updates
5. Public Comments



Climate Pollution Reduction Grant Development of Priority Measures

Presentation to GWSA IAC

September 29, 2023



What is CPRG?

A two-phase federal funding opportunity administered by US EPA:

- Phase I (Planning) awards to states \$3M in formula funding for decarbonization planning
 - Priority Climate Action Plan due March 2024
 - Comprehensive Climate Action Plan due March 2025
- Phase II (Implementation) is a competitive process which draws on Phase I to award up to \$500M grants for a specific implementation project.
 - Notice of Funding Opportunity (NOFO) to be released September 2023
 - Implementation Grant Proposal due April 2024



Why Is the CPRG Significant?

- A way to ground the policy commitments of the Clean Energy and Climate Plans (CECPs) in quantifiable GHG-reduction and EJ impact measures, allowing us to prioritize which ones to implement first
- A way to plan how federal funding can help Massachusetts achieve its climate goals and which federal opportunities will yield the most GHG emission reduction impact
- A way to pick 1-2 projects to support with significant implementation funding



How Can the CPRG Help to Prioritize Decarbonization Investments and Policies?

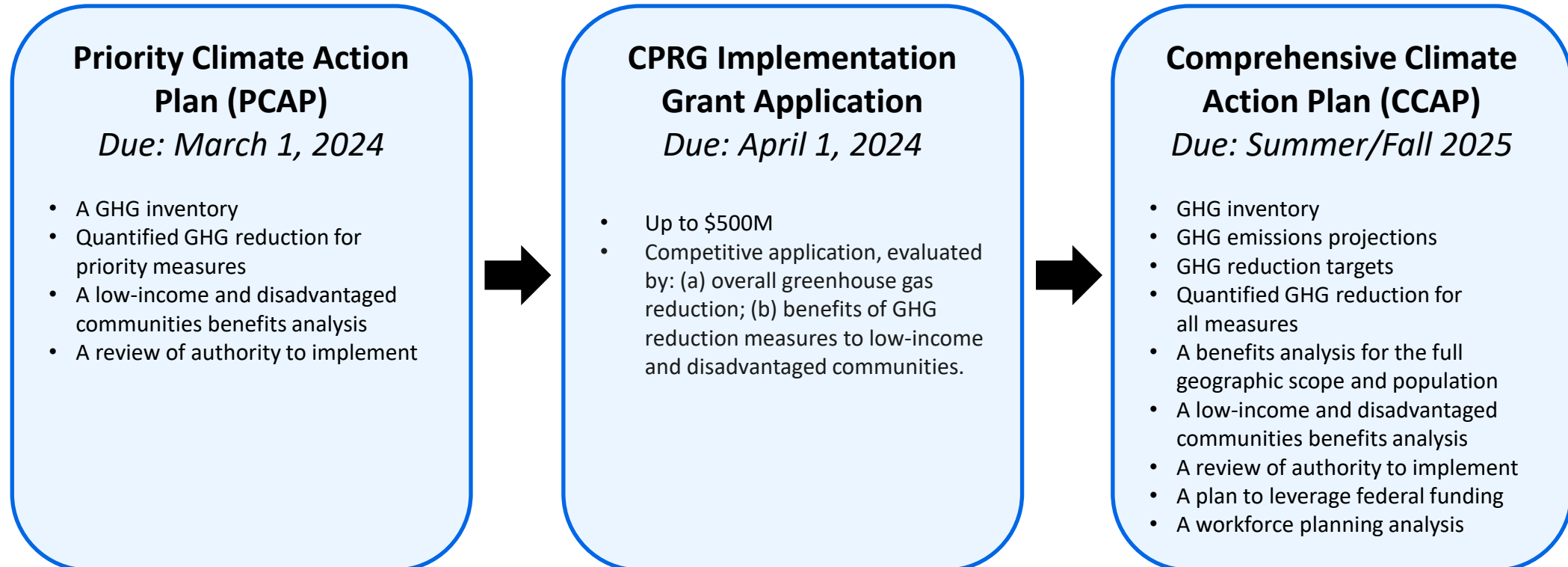
Key Questions to Guide Decarbonization Investment

- What is the GHG emissions reduction potential of particular climate measures within each sector?
- Which climate measures provide the most benefit (co-pollutants, workforce, etc.)?
- Which climate measures provide the most benefit to environmental justice populations?
- For each climate measure, how much investment is necessary?
- For each climate measure, what are the sources of state and federal funding available over the next decade?



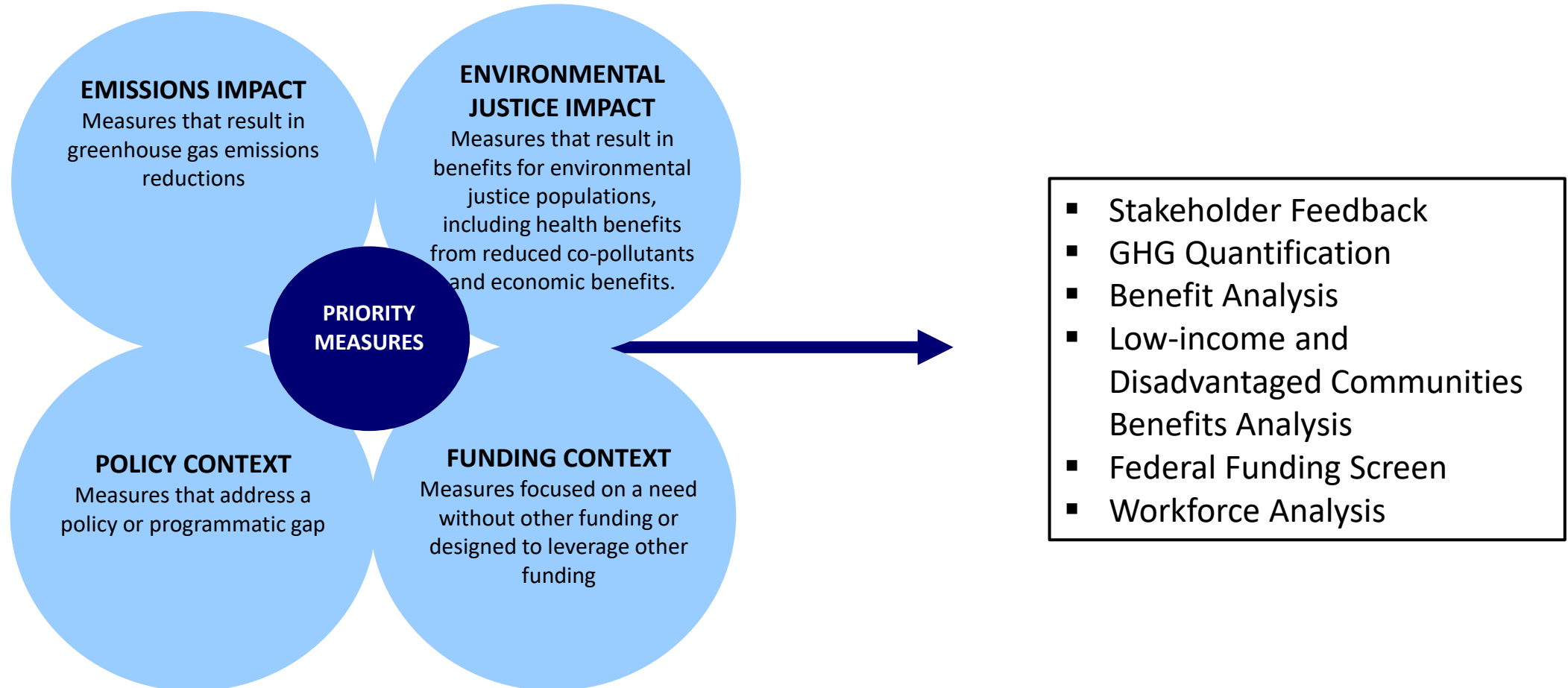
Priority Measures & CPRG Timeline

Priority Measures: *"A focused list of near-term, high-priority, implementation-ready measures to reduce GHG pollution."*





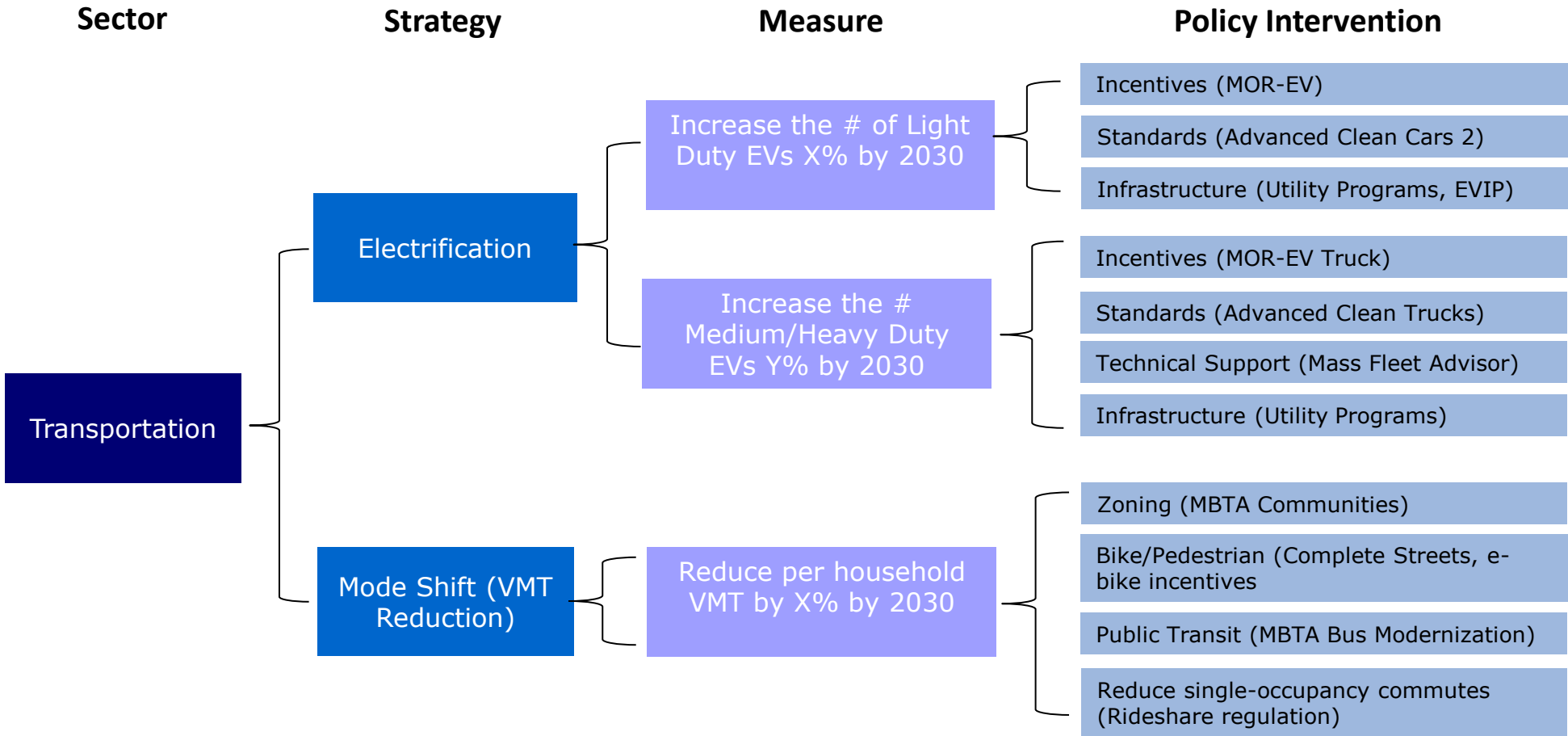
CPRG Priority Measure Development Process





We can make our CECP policy measures “actionable” for CPRG purposes by decomposing them into the core analytic goals modeled in the CECP.

For example...



(Examples of what we need to do in accordance with emissions reductions).

(Examples of what we said we’d do to get there)



We can make our CECP policy measures “actionable” for CPRG purposes by decomposing them into the core analytic goals modeled in the CECP.

Assign **GHG reductions** and **EJ benefits** to these measures individually, so that we can prioritize implementation



Sector	Strategy	Measure	Policy Intervention	Implementation Action
Transportation	Electrification	Increase the # of Light Duty EVs X% by 2030	Incentives (MOR-EV)	Where do we need to add resources to fill gaps or build upon existing policy interventions? Key Considerations Include: <ul style="list-style-type: none">Market segment with greatest emissions (i.e. LD emits more on a gross basis but MD/HD emit more on a per unit basis)Market segment with greatest EJ impactMD/HD most often diesel with co-pollutantsMarket segment least covered by existing policy interventions
			Standards (Advanced Clean Cars 2)	
			Infrastructure (Utility Programs, EVIP)	
		Increase the # Medium/Heavy Duty EVs Y% by 2030	Incentives (MOR-EV Truck)	
	Standards (Advanced Clean Trucks)			
	Technical Support (Mass Fleet Advisor)			
	Mode Shift (VMT Reduction)	Reduce per household VMT by X% by 2030	Infrastructure (Utility Programs)	
			Zoning (MBTA Communities)	
			Bike/Pedestrian (Complete Streets, e-bike incentives)	
			Public Transit (MBTA Bus Modernization)	
			Reduce single-occupancy commutes (Rideshare regulation)	



Preliminary Concepts for Priority Measures for Transportation (~37% of MA Emissions)

- Electrify Medium and Heavy-Duty Vehicles:
 - **Potential Implementation Idea:** Narrow focus to medium and heavy-duty electrification by prioritizing the electrification of municipal garbage trucks or delivery vehicles (diesel-powered, registered in MA), concentrating on fleets active among EJ populations. Target enabling factors, including truck charging economies, to maximize impact of current Advanced Clean Truck (ACT) Standards.
- Electrify Light Duty Vehicles:
 - **Potential Implementation Idea:** Make additional progress in passenger vehicle electrification by enhancing EV incentives.



Preliminary Concepts for Priority Measures for Buildings (~35% of MA Emissions)

- Electrify Building Heating and Cooling:
 - **Potential Implementation Idea:** Use CPRG Implementation funding as a pool of funds to encourage uptake of building-sector tax credits, extending the impact of the CPRG funds over the building sector.
 - **Potential Implementation Idea:** Create a Cities of the Future Decarbonization Project that would focus multiple interventions in 2-3 neighborhoods to incrementally retire fossil fuel infrastructure, modernize electrical infrastructure, and transition buildings (and potentially transportation) to all-electric operation.
 - **Potential Implementation Idea:** Develop the model for statewide school decarbonization (buildings, fleets, land, curriculum), with a focus on schools in Gateway Cities.



Other Sectors: Power, Natural & Working Lands, Waste

- Challenge: Identify measures that preserve and enhance forestation or other natural sequestration techniques while also providing significant benefits to environmental justice populations.
- Challenge: Identify opportunities that are incremental to ongoing grid modernization and renewable energy procurement processes.



Next Steps

- Continue to refine set of Priority Measures
- Solicit feedback from stakeholders in September and October
- Initiate analytic work in October



Contact and Follow Up

We look forward to engagement over the coming months around the following:

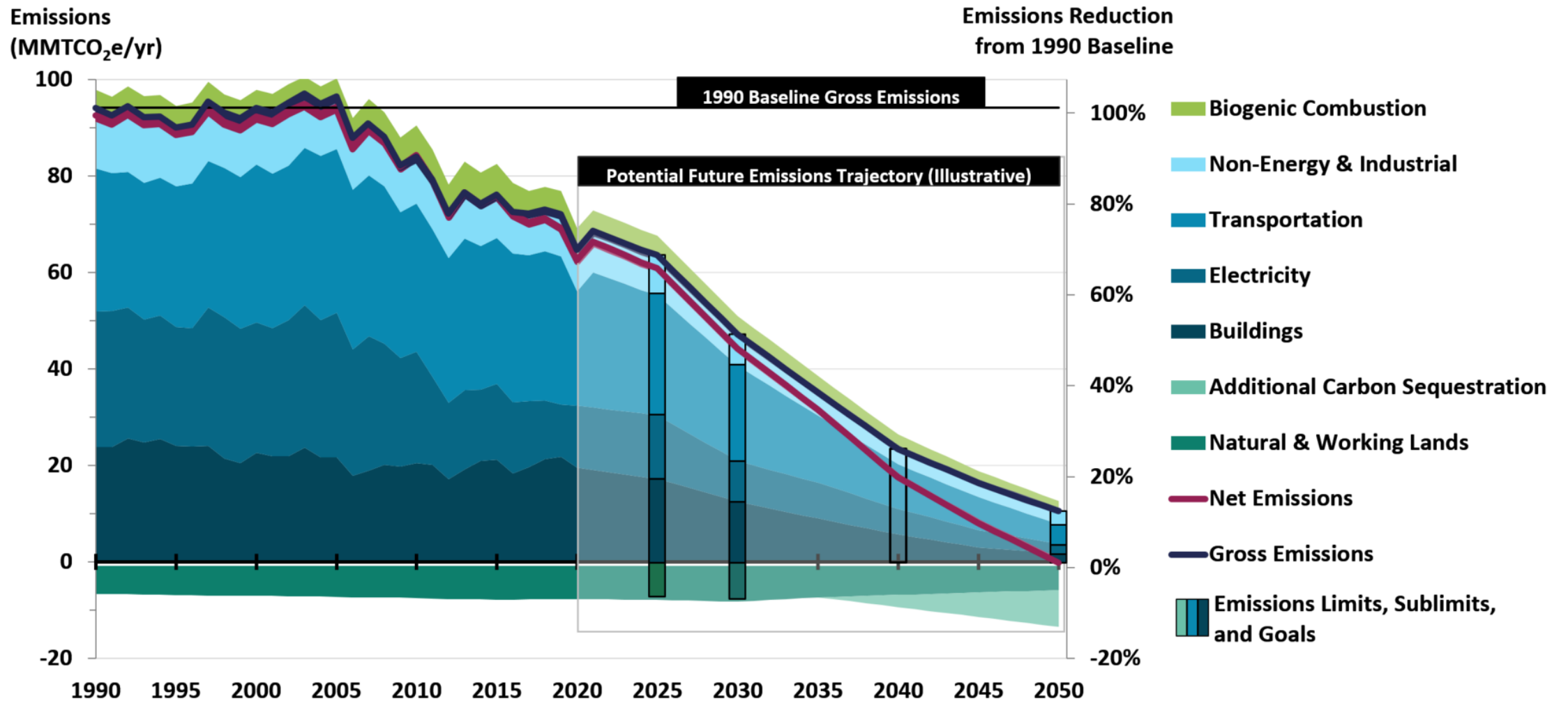
- Identification of Priority Measures
- Categories and metrics to include in a quantification of benefits
- Categories and metrics to include in a quantification of benefits for environmental justice populations
- Review of Priority Measures Results

Thank you! For questions please contact:

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A Reminder of the Task Ahead





IAC Work Group Updates



Public Comments