



Global Warming Solutions Act Implementation Advisory Committee

August 22, 2019

1-3pm



Agenda

- Welcome & Introductions
- Review and approve minutes of the June 27, 2019 IAC meeting
 - Call for vote to approve the minutes
- Decarbonization Study: High Level Update
- IAC Work Group Policy Discussion for Study Consideration, facilitated by Cadmus
 - Buildings
 - Land use and Nature Based Solutions
 - Electricity
 - Transportation
- Brief updates from state agencies
- Wrap up & next steps
- Adjournment

Welcome & Introductions

June 27th Minutes

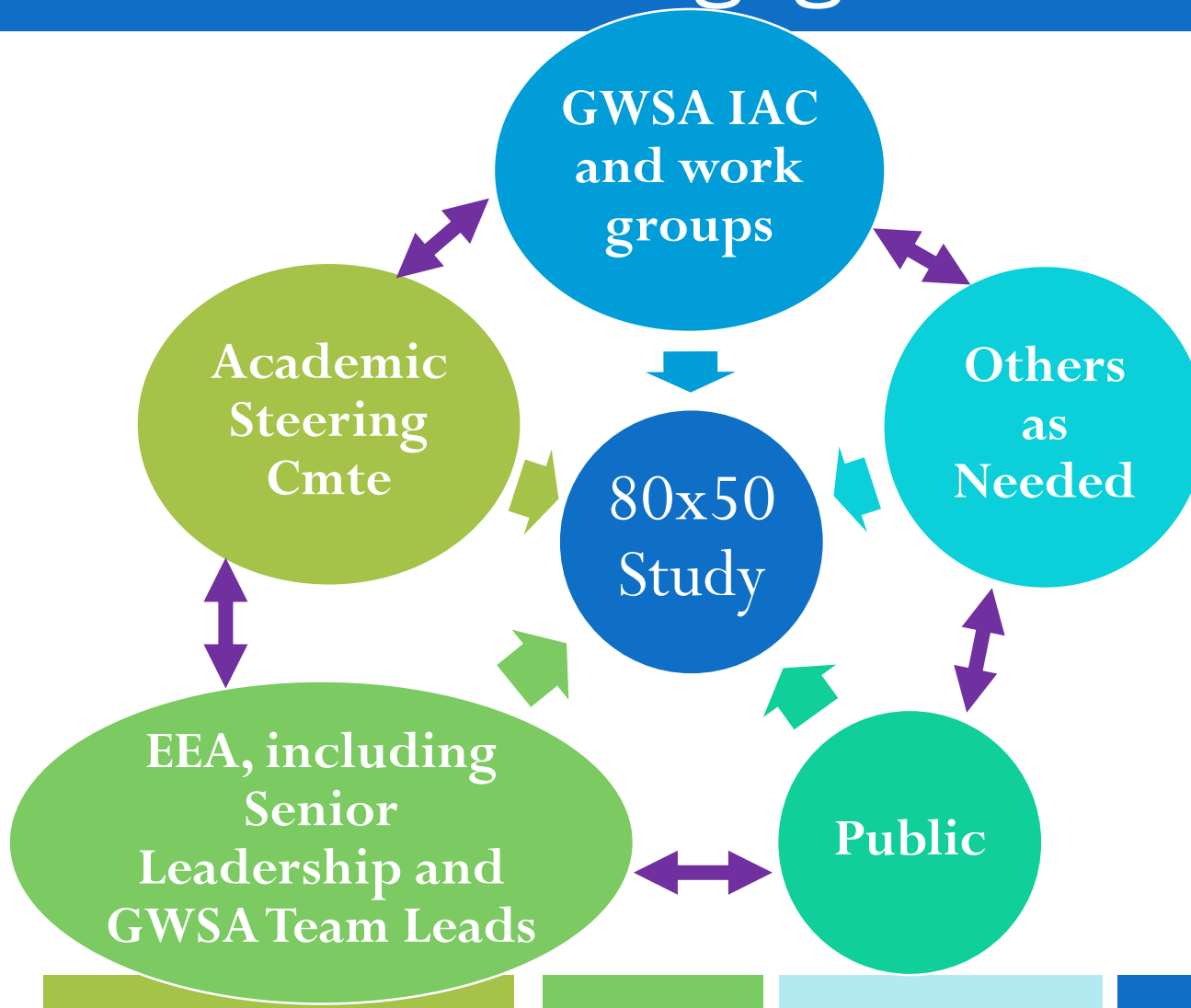
- Review
- Call for vote to approve the minutes

Decarbonization Study Update

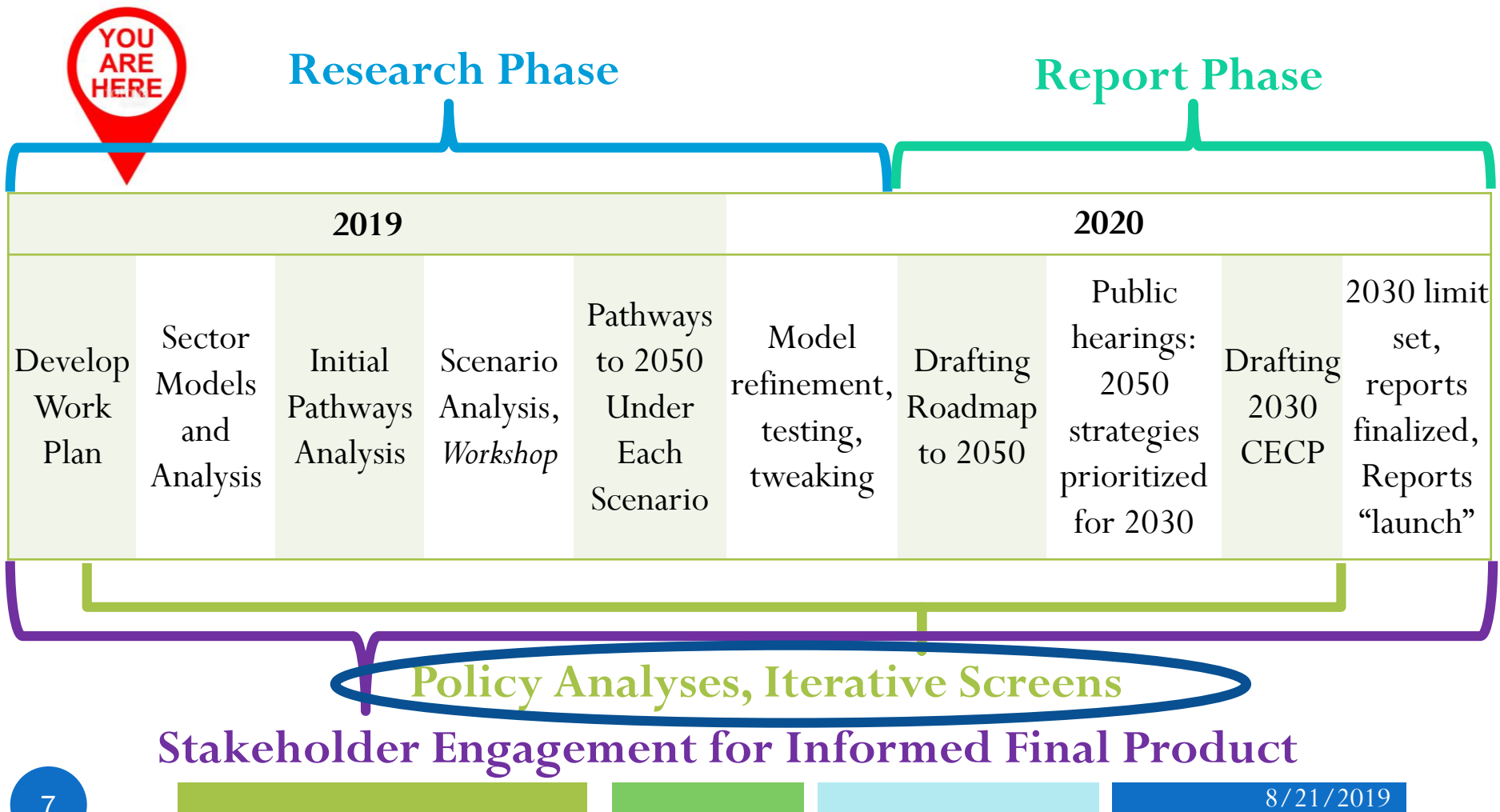
Reminder: Goals of the effort:

- To identify the strategies, policies, and implementation pathways for MA to achieve at least 80% GHG reductions by 2050, and to develop a portfolio of actions that inform, support, and achieve a 2030 emissions limit. The study will dive deeply into five sectors (buildings, transportation, electricity, land use, and non-energy) and characterize impacts of policy implementation, including:
 - economic costs and benefits
 - public health impacts
 - changes to climate change resilience and the landscape
 - socioeconomic equity, including explicit consideration of environmental justice (EJ) communities

Stakeholders Engaged

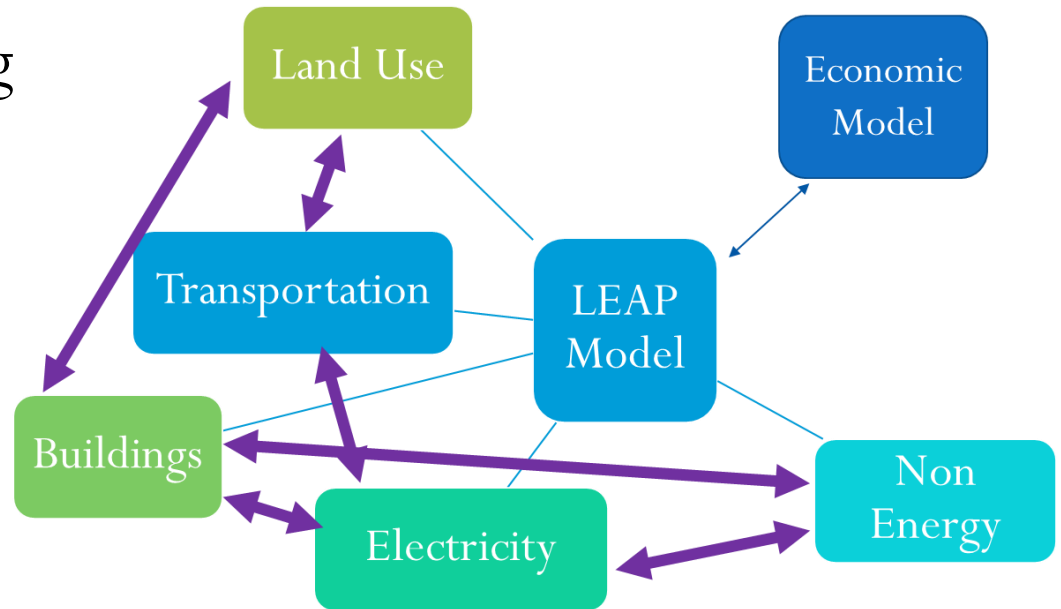


Project Timing:



Outlook for the next few months

- ‘Finalize’ workplan
- Begin sector modeling
 - Rough depiction:
- Continue stakeholder engagement, particularly around equity and environmental justice
- Policy analysis
- Prepare initial pathways in advance of scenarios



IAC Work Groups Next Steps

- If it is helpful for 80x50, Claire can help administratively organize work group meetings.

Buildings:

Cammy Peterson, MAPC (Chair)

Electricity

David Ismay, CLF (Chair)

Land use/Nature Based Solutions

Steve Long, TNC (Chair)

Transportation

Sarah Simon, E2 (Co-Chair)

Dan Gatti, UCS (Co-Chair)

IAC Work Group Policy Discussion

- Goal of this discussion:
 - IAC has the chance to recommend policies for consideration in the 80x50 study
 - 80x50 study/consultants can review policies early and build policy considerations into the models
- This is the first of these types of discussions, not the last
- Hope to leave today with a list of policies that the IAC recommends for consideration
- Have recommendations from four work groups
 - Buildings
 - Electricity
 - Land use and Nature Based Solutions
 - Transportation

Review of Policy Screening Criteria (from GWSA/Exec Order 569)

- Technologically feasible within desired timeframe
- GHG reduction estimates
- Cost
- Equitable distribution of impacts, benefits specifically for EJ communities or low-income residents
- Diversify energy sources
- Consider minimizing leakage of GHG emissions outside of MA
- Improve adaptive capacity of built and natural environments
- *Additional considerations: State influence on implementation, Policy feasibility, Jobs, Revenue Generation*

IAC Buildings Work Group Vision

The year is 2050, and the IAC is holding one of its last meetings. The GWSA 2050 target has been achieved, and the Committee will be disbanded soon. How did we get here (Buildings!)?

- Through comprehensive overhaul of the Massachusetts State Building Code, which resulted in dramatically reduced emissions and improved resiliency....AND...
- Mandatory GHG Emissions Reduction Limits on all building types, sizes, and scales within the Building Sector statewide that declined predictably and rigorously to achieve marked GHG reductions by 2030 and enable the deeper energy efficiency retrofits and ultra-low-carbon new construction to take place in subsequent years

IAC Buildings Work Group Policies for Discussion

1. Set Mandatory Emissions Reduction Limits on Building Sector Statewide by 2020
2. Make the Building Code 2050-Compliant
3. Require Expanded, Detailed Building Performance and Emissions Reporting, Benchmarking, and Improvements
4. Require a Cross-Sectional Focus

IAC Electricity Work Group Vision

The year is 2050, and the IAC is holding one of its last meetings. The GWSA 2050 target has been achieved, and the Committee will be disbanded soon. How did we get here (electricity)?

- In 2020, the states took bold, coordinated action to overhaul the regional electricity system and their own distribution networks to facilitate a new goal: delivering ultra-low carbon electricity at least-cost at levels, and on pace, sufficient to support widespread electrification economy-wide.

IAC Electricity Work Group Policies for Discussion

1. Promote consistent GHG accounting methods within MA and among New England states.
2. Conduct a strategic review and alignment of the RPS, APS, CES, and CPS regarding the participation in each of biomass, landfill gas, and MSW "waste-to-energy" electricity generators.
3. Conduct a strategic assessment of the role of Municipal Light Plants (MLPs) in meeting the state's GWSA obligations.
4. Ensure the state's Electricity Distribution Company (EDC)-maintained and operated electricity distribution system is transformed as needed to actively support and further statewide deep decarbonization efforts
5. Ensure the New England electricity system's markets and planning processes are transformed as needed to actively support and further statewide deep decarbonization efforts.

IAC Land use and Nature Based Solutions Work Group Vision

The year is 2050, and the IAC is holding one of its last meetings. The GWSA 2050 target has been achieved, and the Committee will be disbanded soon. How did we get here (land use/NBS)?

- we conserved, enhanced and restored the power of nature to reduce and remove carbon emissions and meet our Global Warming Solutions Act goals. We couldn't have met our goal without these natural climate solutions – no other technology can remove those unavoidable, or historic, carbon emissions from the atmosphere.

IAC Land use and Nature Based Solutions Work Group Policies for Discussion

1. Avoid conversion of forests – especially resilient, interior forests – to other land uses
2. Invest in the restoration, maintenance, migration, and protection of blue carbon systems (salt marshes and eelgrass beds) through funding, strengthening coastal wetland protection, and enabling salt marsh migration with land conservation and/or limited development/land use in the coastal zone
3. Continue, and greatly expand, urban tree planting and stewardship programs, such as Greening the Gateway Cities, ReGreen Springfield, and tree planting efforts within metro Boston
5. Improve Forest Management
6. Increase the carbon sequestration potential of soils

IAC Land use and Nature Based Solutions Work Group Policies for Discussion

4. Make the value of forest carbon visible and quantifiable in state policies

7. Reward municipalities that use Smart Growth and other climate-friendly actions

IAC Transportation Work Group Vision

The year is 2050, and the IAC is holding one of its last meetings. The GWSA 2050 target has been achieved, and the Committee will be disbanded soon. How did we get here (transportation)?

- We changed the cultural attitudes about mobility with decarbonized transportation equipment, by reducing VMT, trips and number of vehicles, and by supporting multi-passenger modes with improved transit and ridesharing apps...AND...
- We implemented equitable roadway pricing, which generated revenue for significant investments in public transit and reduced the use of single- and low-occupancy vehicles...AND...
- We encouraged telecommuting while pricing gasoline more accurately, as a coordinated action.

IAC Transportation Work Group Policies for Discussion

1. Reduce GHGs from vehicles
2. Invest in mass transit and promote alternatives to driving
3. Price transportation externalities
4. Integrate transportation and land use planning

State Agency Updates

Wrap up/Next Steps

- Slides will be posted
- Meeting minutes will be assembled
- Policy recommendations next steps
- Next meeting: TBD in Fall
- Work Group Chairs and composition: Reach out to Claire
 - Claire.Miziolek@mass.gov

Thank you!