



MAINE

CLIMATE COUNCIL

Council Co-Chairs:

**Director Hannah Pingree,
Governor's Office of Policy
Innovation and the Future**

**Commissioner Jerry Reid,
Department of Environmental
Protection**



Mills Administration – Early Climate Actions:

- Joined the U.S. Climate Alliance – a bi-partisan coalition of 25 U.S. States committed to meeting Paris Climate Goals
- Launched electric vehicle rebate & infrastructure programs using VW settlement funds
- Signed legislation to restore net metering to encourage renewable energy for homeowners and small businesses
- Ended the blanket ban on wind power development
- Withdrew Maine from the offshore drilling coalition



RENEWABLE PORTFOLIO STANDARD LD 1494

- Increases RPS to 80 percent by 2030, up from 40 percent, and set a goal of 100% renewable power by 2050

SOLAR & DG LD 1711

- Incentivizes at least 375 MW of distributed generation
- Encourages small scale and community solar projects

OFFSHORE WIND

- Passed legislation to advance Maine's Aqua Ventis - which will be the first floating off-shore wind project in the U.S.
- Joined the federal BOEM Intergovernmental Renewable Energy Task Force with ME, MA and NH and launching Maine Offshore Wind Initiative

HEATING

- Initiative to install 100,000 new heat pumps by 2025 with a focus on low-income residents, in partnership with Efficiency Maine and Maine Housing

EXECUTIVE ORDER 10, Signed September 23, 2019

- Goal is to achieve state **carbon neutrality by 2045**
- Climate Council is tasked with including recommendations on how to achieve neutrality in its Climate Action Plan
- Carbon neutrality can help grow the clean energy economy in Maine and benefit farmers, foresters, and others whose practices and land sequesters carbon



MAINE CLIMATE COUNCIL (LD 1679)

Governor's Bill, sponsored by Senator Woodsome (R)

- Sets reductions in law: 45% reduction in greenhouse gas emissions by 2030, 80% by 2050
- Creates Maine Climate Council to advise the Governor and Legislature on ways to mitigate the causes of, prepare for and adapt to the consequences of climate change
- State Climate Action Plan update due by December 1, 2020

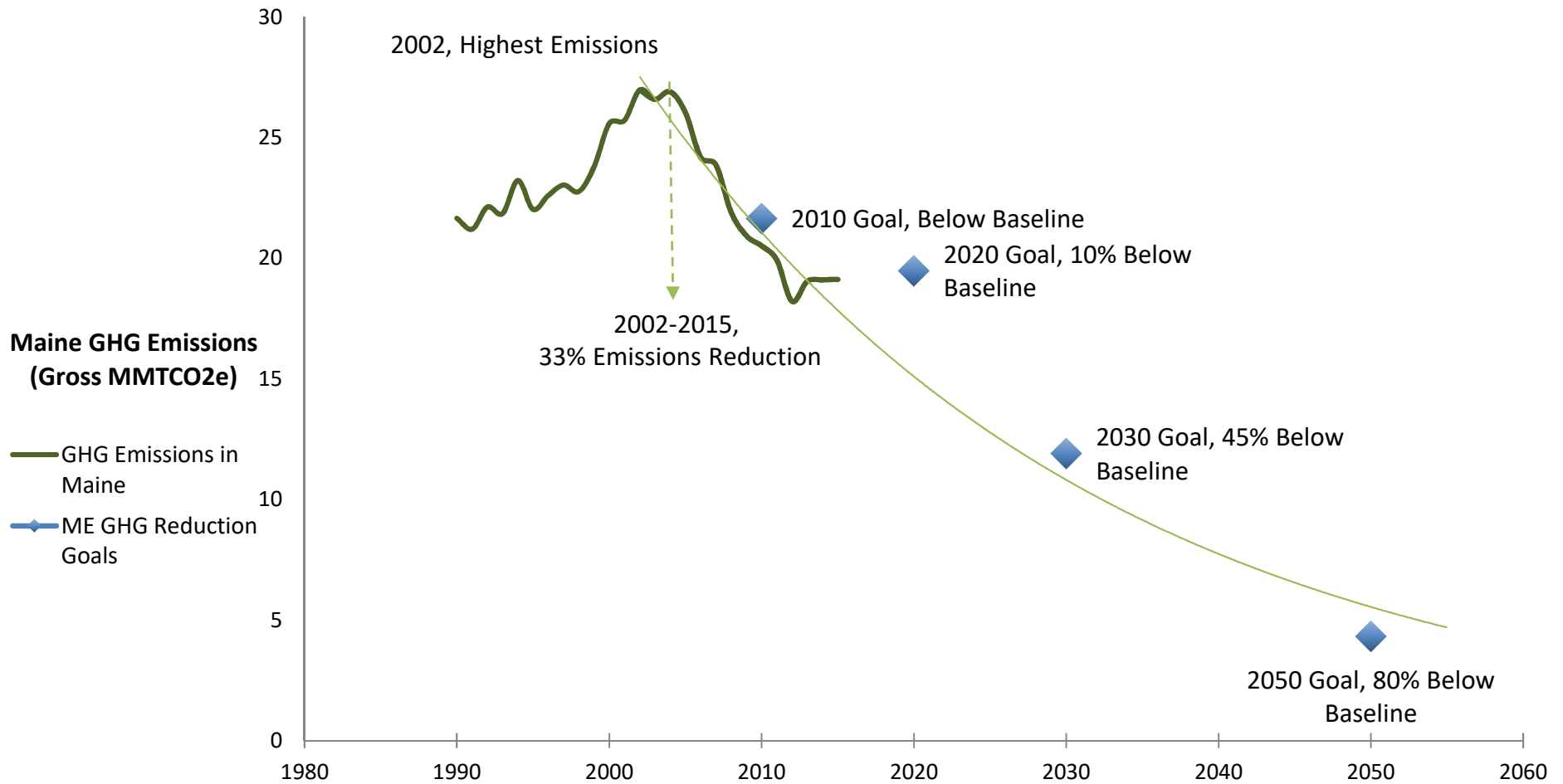


MITIGATION STRATEGIES

- To meet reduction levels:
 - 45% below 1990 gross annual greenhouse gas emissions by 2030
 - 80% below 1990 gross annual greenhouse gas emissions by 2050
 - Net zero by 2045
- Use the latest scientific and technological information
- Analyze technical feasibility and cost-effectiveness of potential solutions
- Emphasize clean energy economy plan and opportunities for good job creation and how to ensure impacts on Maine's people and communities are considered



MAINE GREENHOUSE GAS (GHG) EMISSIONS AND REDUCTIONS GOALS



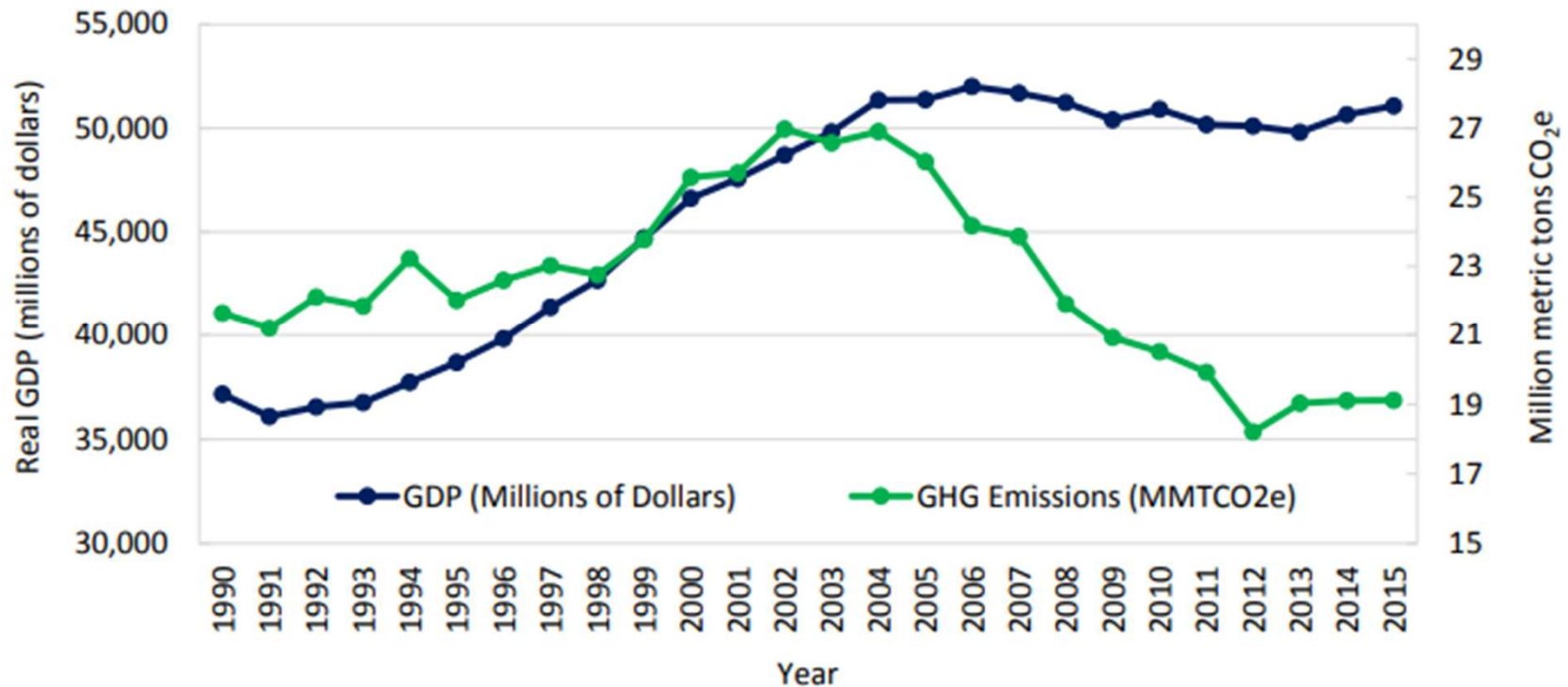
Timeline for GHG Emissions Inventories & GHG Reduction Goals Based on a 1990 Baseline Level

Exponential fit line is rough fit showing approximate path emissions reductions might take to meet targets

Source: Maine DEP, 2018 GHG Progress Report



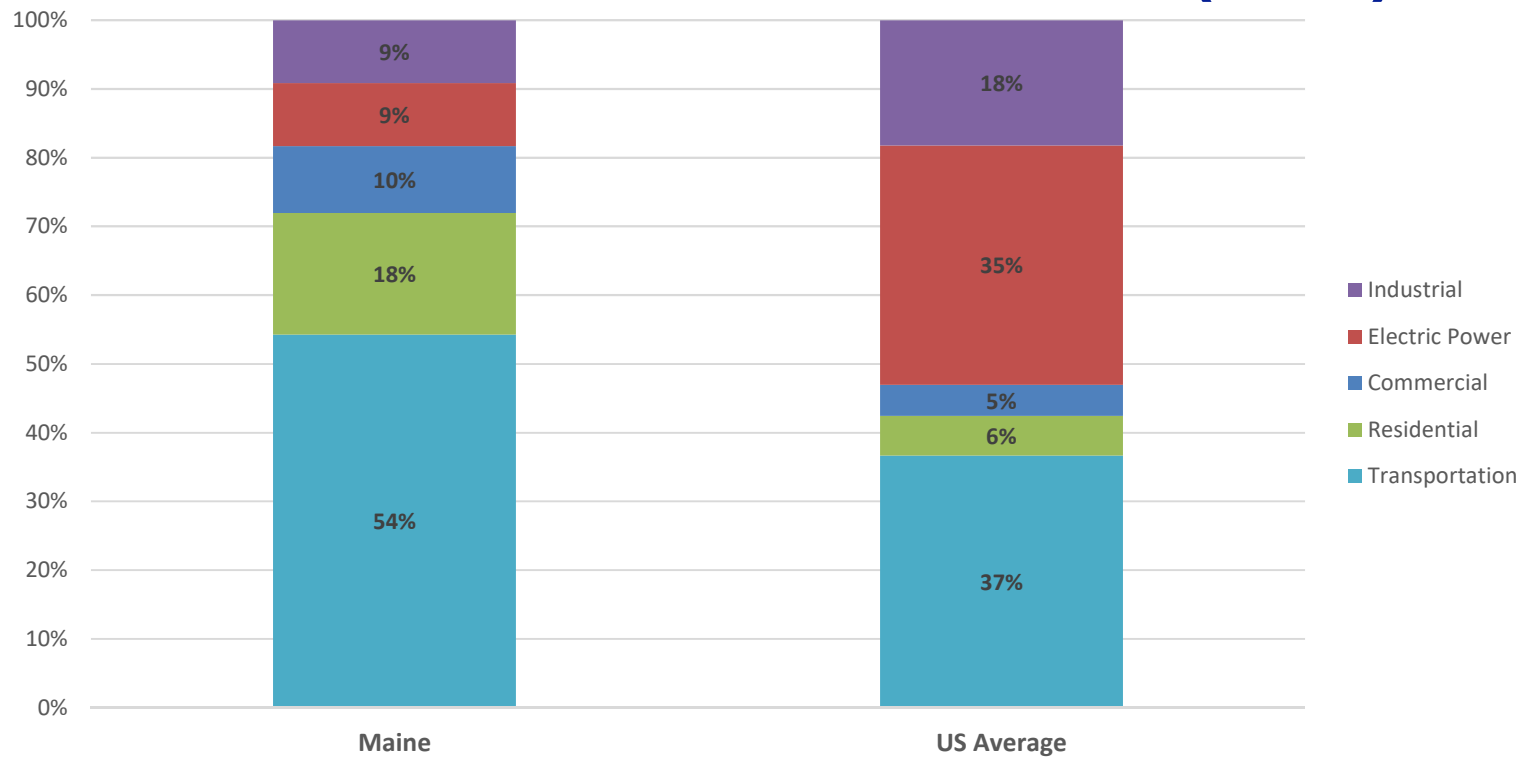
TOTAL GREENHOUSE GAS EMISSIONS AND REAL GROSS DOMESTIC PRODUCT (GDP)



Source: Maine Department of Environmental Protection



PERCENTAGE OF EMISSIONS BY SECTOR FOR US AND MAINE (2016)



Source: EIA, SEDS Database



ADAPTATION STRATEGIES

- Focus on how to improve resiliency of Maine's communities, people, and industries to climate impacts
- Prioritize the welfare of Maine citizens - especially the most vulnerable communities
- Foster the value of the State's natural resources and natural resource industries and their ability to support resilience
- Encourage diversity, inclusion and equity of all Maine communities and people
- Build upon existing good work happening in communities
- Encourage investments that mitigate risk
- Utilize the most recent science and technical information and measure progress

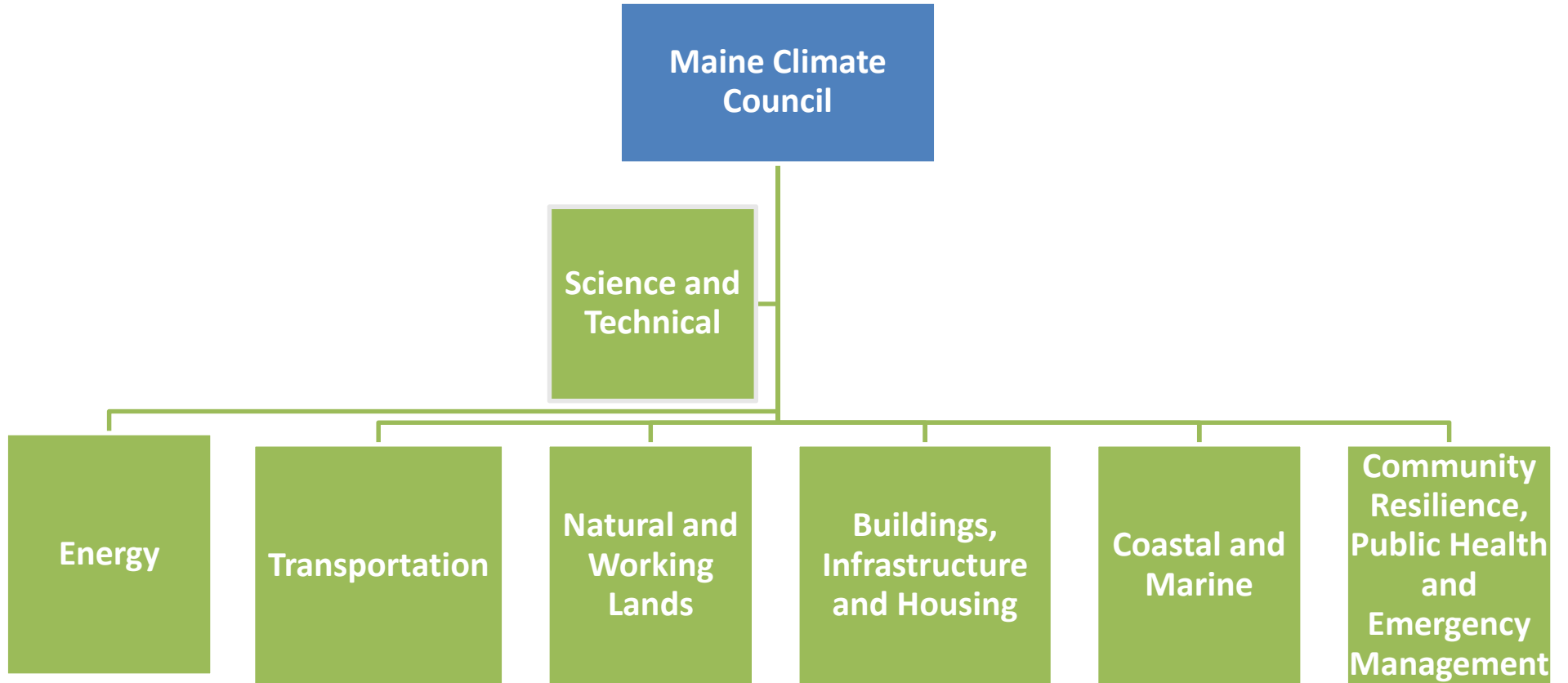


TIMELINE

- Council kick-off September 26, 2019
- Working groups develop, model, and recommend strategies from October 2019 until summer 2020
- Summer/Fall 2020 - Maine Climate Council considers and prioritizes strategies for Action Plan
- State Climate Action Plan delivered December 1, 2020 and plan is updated every 4 years
- Council and working groups continue to meet to monitor progress
- DEP reports on state greenhouse gas emissions every 2 years



ORGANIZATION CHART



ROLES AND RESPONSIBILITIES

MAINE CLIMATE COUNCIL

- 39 members: 35 appointed by the Governor for 3 year terms; 4 legislative members appointed by legislative leadership for 2 year terms
- Council will approve strategies to be included in the Climate Action Plan by December 1, 2020 and update the plan every 4 years thereafter
- Council members may serve on one working group
- A steering committee of the co-chairs of the council, and the chairs of the subcommittees and the working groups will help guide the staffing, timeline and workflow of the council and working groups



ROLES AND RESPONSIBILITIES SCIENTIFIC AND TECHNICAL SUBCOMMITTEE

- Identify, monitor, study and report relevant data, findings and recommendations on how climate change is impacting Maine
- Highlight critical scientific data and knowledge gaps
- Provide sea level rise projections and maps that indicate the areas of the State that may be most affected by storm surges, ocean and river flooding and extreme weather, based on the latest data and science
- Advise on methodologies and science for land and ocean based opportunities for carbon sequestration



ROLES AND RESPONSIBILITIES WORKING GROUPS

- To develop and recommend mitigation and adaptation actions to the council
- Groups include legislators, representatives of scientific and academic institutions, affected and involved businesses, nonprofit organizations and foundations, youth, and leaders from federal, state and local governments and agencies
- All working groups will solicit stakeholder input; consider costs and benefits including impacts on low-income, elderly and rural residents and other vulnerable communities; advise on economic and workforce benefits and challenges; and recommend funding and financing mechanisms for strategies



WORKING GROUP CO-CHAIRS

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| SCIENTIFIC AND TECHNICAL | Ivan Fernandez, University of Maine & Robert G. Marvinney, Maine Dept of Agriculture, Conservation, and Forestry |
| TRANSPORTATION | Joyce Taylor, Maine Dept of Transportation & Sarah Cushman, Cushman Transportation Consulting, LLC |
| COASTAL AND MARINE | Kathleen Leyden, Maine Dept. of Marine Resources & Heather Leslie, Darling Marine Center, University of Maine |
| COMMUNITY RESILIENCE, PUBLIC HEALTH AND EMERGENCY MANAGEMENT | Dr. Nariv Shah, Centers for Disease Control, Maine HHS, & Anne Fuchs, Maine Emergency Management Agency & Judith Cooper East, Washington County Council of Governments |
| BUILDINGS, INFRASTRUCTURE AND HOUSING | Michael Stoddard, Efficiency Maine & Kathleen Meil, Maine Conservation Voters |
| ENERGY | Dan Burgess, Governor's Energy Office & Ken Colburn, retired energy consultant |
| NATURAL AND WORKING LANDS | Amanda Beal, Maine Dept of Agriculture, Conservation, and Forestry & Tom Abello, Governor's Office |



Next Steps

- Kick-off meeting materials will be available online via the DEP website and our YouTube link
- Working group meetings will start in October with briefings, and remote participation will be possible
- Working groups will meet monthly, meetings will be open to the public/press
- Hearing from Maine people is crucial and opportunities for public input will happen throughout the process through working group meetings, online, and via stakeholder meetings
- Direct questions and comments and press inquiries to the co-chairs and lead staff (Sarah Curran and Cassandra Rose) via email at: maineclimatecouncil@maine.gov



MAINE CLIMATE COUNCIL

THANK YOU!



MAINE

CLIMATE COUNCIL

Kick-off Meeting
September 26, 2019

