

## Maine Won't Wait: A Four-Year Plan for Climate Action Implementation Chart

This Implementation Chart for Maine's Four-Year Climate Action Plan identifies the lead state agencies assigned to each of the specific outcomes assigned to the climate strategies. The agencies will work with partner organizations to implement the actions, and progress will be monitored quarterly by the Maine Climate Council and working groups. The Implementation Chart will continue to be refined and updated.

Action Area	Outcomes	Lead Agency	Additional Information
Equity	Establish a new Equity Subcommittee of the Maine Climate Council to set clear equity outcomes for proposed actions, monitor progress and make recommendations to ensure that programs and benefits reach the intended populations and communities.	Governor's Office of Policy Innovation and the Future	New

### Strategy A: Embrace the Future of Transportation in Maine

Action Area	Outcomes	Lead Agency	Additional Information
1. Accelerate Maine's transition to Electric Vehicles (EVs)	Achieve emissions reductions goals by putting 41,000 light-duty EVs on the road in Maine by 2025, and 219,000 by 2030.	Efficiency Maine Trust	Build on existing EV Accelerator program
	Develop, by 2022, a statewide EV Roadmap to identify necessary policies, programs and regulatory changes needed to meet the state's EV and transportation emissions reductions goals.	Governor's Energy Office; Efficiency Maine Trust; Maine Department of Transportation	New initiative; Expand existing EV charging infrastructure programs

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Action Area	Outcomes	Lead Agency	Additional Information
	Create by 2022 policies, incentives and pilot programs to encourage the adoption of electric, hybrid and alternative fuel medium- and heavy-duty vehicles, public transportation, school buses, and ferries.	Maine Department of Transportation; Department of Education	New
2. Increase fuel efficiency and alternative fuels	Continue to support increased federal fuel efficiency standards.	Governor's Office of Policy Innovation and the Future	Existing federal CAFE and California LEV/ZEV standards
	Significantly increase, by 2024, freight industry participation in EPA's SmartWay program.	Maine Department of Environmental Protection; Maine Department of Transportation	Build on existing US EPA SmartWay program
	Increase by 2024 local biofuel and biodiesel production and use in Maine transportation, especially heavy-duty vehicles	Maine Department of Environmental Protection; Department of Transportation; Department of Agriculture, Conservation and Forestry/Maine Forest Service	Build on Department of Environmental Protection's existing program and Department of Transportation's biofuel pilot
	Establish a time-limited incentive program to encourage drivers to upgrade to higher-efficiency vehicles in the near-term, targeted to low- and moderate-income drivers.	Efficiency Maine Trust; Department of Transportation	Build on existing EV Accelerator program
3. Reduce Vehicle Miles Traveled (VMT)	Reduce light-duty vehicle miles traveled (VMT) over time, achieving	See below	

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	10% reductions by 2025, and 20% by 2030.		
	Reduce heavy duty VMT by 4% by 2030.	See below	
	Deploy high speed broadband to 95% of Maine homes by 2025 and 99% by 2030.	ConnectME Authority	Build on existing ConnectME programs
	By 2024, establish state coordination, strengthen land use policies, and use state grant programs to encourage development that supports the reduction of vehicle miles traveled.	Maine Housing; Department of Agriculture, Conservation, and Forestry; Department of Transportation; Department of Education	Implement Complete Streets policy under the Department of Transportation
	Increase public transportation funding to the national median of \$5 per capita by 2024.	Maine Department of Transportation	Build on existing Department of Transportation 2019 Transit Plan
	Relaunch GO Maine to significantly increase shared public commuting options by 2022.	Maine Department of Transportation; Maine Turnpike Authority	Build on existing GO Maine program

### Strategy B: Modernize Maine's Buildings: Energy Efficient, Smart and Cost-Effective Homes and Businesses

Action Area	Outcomes	Lead Agency	Additional Information
1. Transition to cleaner heating and	Install at least 100,000 heat pumps in Maine by 2025; ensuring that by 2030,	Efficiency Maine Trust; Maine Housing	Build on existing Efficiency Maine incentive programs

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cooling systems and efficient appliances	130,000 homes are using between 1-2 heat pumps and an additional 115,000 homes are using a whole-home heat pump system. Install at least 15,000 new heat pumps in income-eligible households by 2025.		
	Implement Maine Appliance Standards requirements by 2022.	Governor's Energy Office; Efficiency Maine Trust	Legislation needed
2. Accelerate efficiency improvements to existing buildings	Double the current pace of home weatherization so that at least 17,500 additional homes and businesses are weatherized by 2025, including at least 1,000 low-income units.	Efficiency Maine Trust; Maine Housing	Build on existing Efficiency Maine and MaineHousing weatherization programs
	Weatherize at least 35,000 homes and businesses by 2030.	Efficiency Maine Trust; Maine Housing	Build on existing Efficiency Maine and MaineHousing weatherization programs
3. Advance the design and construction of new buildings	By 2024, develop a long-term plan to phase-in modern, energy efficient building codes to reach net zero carbon emissions for new construction in Maine by 2035.	Maine Fire Marshall; Efficiency Maine Trust; Governor's Energy Office	New
	Enhance existing training on building codes and expand these programs to support ongoing education of contractors and code enforcement officials.	Maine Bureau of Building Codes and Standards; Efficiency Maine Trust	Build on Maine Bureau of Building Codes and Standards training and certification for Code Enforcement Officers; expand Efficiency Maine Trust training for contractors

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Action Area	Outcomes	Lead Agency	Additional Information
4. Promote climate-friendly building products	Develop and enhance innovation support, incentives, building codes, and marketing programs to increase the use of efficient and climate-friendly Maine forest products, including mass timber and wood fiber insulation.	Department of Economic and Community Development; Department of Agriculture, Conservation and Forestry	Build on existing efforts
5. "Lead by Example" in publicly funded buildings	Use procurement rules and coordinated planning efforts for state government to promote high efficiency lighting, heating and cooling; climate-friendly construction materials; and renewable energy use for reduced operating costs and emissions reductions. The state will produce a "Lead by Example" plan for state government by February 2021.	Governor's Office of Policy Innovation and the Future; Governor's Energy Office	New
	Enhance grant and loan programs to support efficiency and renewable energy programs in municipal, tribal, school, and public housing construction and improvements. Provide recognition programs for those projects making outstanding efforts.	Efficiency Maine Trust; Department of Education; MaineHousing	Enhance existing and create new
6. Renewable Fuels Standard (RFS)	Investigate options for establishing a Renewable Fuels Standard (RFS) for heating fuels.	Governor's Energy Office; Department of Economic and Community Development;	New

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		Department of Agriculture, Conservation and Forestry	
7. Replace hydrofluorocarbons (HFCs) with climate-friendly alternatives	Adopt HFC phase-down regulations in 2021 to be implemented by 2022.	Department of Environmental Protection	Legislation needed

**Strategy C: Reduce Carbon Emissions in Maine's Energy and Industrial Sectors through Clean Energy Innovation**

Action Area	Outcomes	Lead Agency	Additional Information
1. Ensure adequate affordable clean energy supply	Achieve, by 2030, an electricity grid where 80% of Maine's usage comes from renewable generation.	Governor's Energy Office; Public Utilities Commission	Utilization and expansion of existing programs, as well as development of new initiatives.
	Set achievable targets for cost-effective deployment of technologies such as offshore wind, distributed generation, and energy storage, and outline the policies, including opportunities for pilot initiatives, necessary to achieve these results.	Governor's Energy Office	Utilization and expansion of existing programs, as well as development of new initiatives.
2. Initiate a stakeholder process to transform Maine's electric power sector	Establish a comprehensive stakeholder process in 2021 to examine the transformation of Maine's electric sector and facilitate other recommendations of the Maine Climate Council.	Governor's Energy Office; Maine Public Utilities Commission; Office of the Public Advocate; Efficiency Maine Trust; stakeholders	New

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3. Accelerate emissions reductions of industrial uses and processes	Launch an Industrial Task Force to collaboratively partner with industry and stakeholders to consider innovations and incentives to manage industrial emissions through 2030 and reduce total emissions by 2050.	Efficiency Maine Trust; Governor's Energy Office; Maine Department of Environmental Protection	New
4. Encourage highly efficient Combined Heat and Power facilities	Analyze policies, including the potential for long-term contracts, needed to advance new highly-efficient combined heat and power (CHP) production facilities that achieve significant net greenhouse gas reductions.	Maine Public Utilities Commission	New analysis; Existing authority at the PUC

### Strategy D: Grow Maine's Clean Energy Economy and Protect Our Natural Resource Industries

Action Area	Outcomes	Lead Agency	Additional Information
1. Support the ability of Maine's natural resource economies to adapt to climate change impacts and take advantage of new market opportunities.	Grow Maine's forest products industry through bioproduct innovation, supporting economic growth and sustainable forest management and preservation of working lands.	Department of Agriculture, Conservation and Forestry; Department of Economic and Community Development	Enhance existing and develop new
	Establish the University of Maine as the coordinating hub for state applied research on forestry, agriculture, and natural land-related climate concerns, including research and development	Department of Agriculture, Conservation and Forestry; Department of Economic and Community Development; with University of Maine	Build on existing efforts

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	of climate-friendly bio-based wood market innovation, and research around climate-friendly agricultural practices.		
	Increase the amount of food consumed in Maine from state food producers from 10% to 20% by 2025; and 30% by 2030 through local food system development.	Department of Agriculture, Conservation and Forestry; Department of Economic and Community Development	Build on existing efforts
	Launch the Maine Seafood Business Council by 2022.	Department of Marine Resources in collaboration with Department of Economic and Community Development and local/regional with economic development providers	New
2. Clean energy jobs and businesses in Maine	Launch a workforce initiative by 2022, that establishes ongoing stakeholder coordination between industry, educational and training organizations to support current and future workforce needs.	Governor's Energy Office	New Initiative; Will build on existing resources, including those within the Maine Department of Labor, as well as any current stakeholder engagement efforts underway
	Establish programs and partnerships by 2022, for cleantech innovation support to encourage the creation of clean energy and climate solutions.	Governor's Energy Office; Governor's Office of Policy Innovation and the Future	Coordinate with and build on existing entrepreneurial support systems in Maine, and work with other state agencies, such as Maine Department of Economic and Community Development



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Shovel-Ready infrastructure projects	Develop a list of climate-related infrastructure projects in early 2021 to utilize for near-term economic recovery, and track over the long term to identify backlogs	Governor's Office of Policy Innovation and the Future; Department of Transportation; Maine Emergency Management Agency	

### Strategy E: Protect Maine's Environment and Working Lands and Waters, Promote Natural Climate Solutions and Increase Carbon Sequestration

Action Area	Outcomes	Lead Agency	Additional Information
1. Protect natural and working lands and waters	Increase by 2030, the total acreage of conserved lands in the state to 30% through voluntary, focused purchases of land and working forest or farm conservation easements.  To keep important Maine forest and farms as working lands and forest cover, and identify coastal areas for protection, partner with stakeholders starting in 2021 to develop additional targets for conservation.	Department of Agriculture, Conservation and Forestry; Department of Marine Resources; Department of Inland Fisheries and Wildlife; Department of Environmental Protection	Existing programs, including Land For Maine's Future; Department of Marine Resources, Coastwise programs; DEP Culvert programs; DIFW Beginning With Habitat
	Focus conservation on high biodiversity areas to support land and water connectivity and ecosystem health.	Department of Agriculture, Conservation and Forestry; Department of Marine Resources; Department of Inland Fisheries and Wildlife; Department of Environmental Protection	Existing programs

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Action Area	Outcomes	Lead Agency	Additional Information
	Revise scoring criteria for state conservation funding to incorporate climate mitigation and resiliency goals.	Department of Agriculture, Conservation and Forestry; Maine Revenue Services; Department of Inland Fisheries and Wildlife	Existing programs
	Develop policies by 2022 to ensure renewable energy project siting is streamlined and transparent while seeking to minimize impacts on natural and working lands and engaging key stakeholders.	Governor's Energy Office; Maine Department of Environmental Protection; Department of Agriculture, Conservation and Forestry; Department of Marine Resources, Department of Inland Fisheries and Wildlife	New
2. Develop new incentives to increase carbon storage	Maine Department of Environmental Protection will conduct a comprehensive, state-wide inventory of carbon stocks on land and in coastal areas (including blue carbon) by 2023 to provide baseline estimates for state carbon sequestration, allowing monitoring of sequestration over time to meet the state's carbon neutrality goal.	Department of Environmental Protection; Department of Agriculture, Conservation and Forestry; Department of Marine Resources	New
	Establish by 2021, a stakeholder process to develop a voluntary, incentive-based forest carbon program (practice and/or inventory based) for	Department of Environmental Protection; Governor's Energy Office; Department of Agriculture, Conservation and Forestry; in collaboration with external partners	New

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	woodland owners of 10 to 10,000 acres and forest practitioners.		
	Engage in regional discussions to consider multi-state carbon programs that could support Maine's working lands and natural resource industries, and state carbon neutrality goals.	Department of Agriculture, Conservation and Forestry; Department of Marine Resources; Governor's Office of Policy Innovation and the Future	New
	Increase the amount of financial incentives available for climate friendly land management practices that sequester carbon and support climate change resilience.	Department of Agriculture, Conservation and Forestry	Expand existing
	Update the Open Space Current Use Taxation Program and maintain the Tree Growth Tax Law.	Department of Agriculture, Conservation and Forestry; Maine Revenue Services; Department of Inland Fisheries and Wildlife	Existing
3. Expand outreach to offer information, technical assistance	Increase technical service provider capacity by 2024 to deliver data, expert guidance, and support for climate solutions to communities, landowners, farmers, loggers, and foresters at the Department of Agriculture, Conservation and Forestry Maine Forest Service, Department of Inland Fisheries and Wildlife, the	Department of Agriculture, Conservation and Forestry/Maine Forest Service; Department of Inland Fisheries and Wildlife; Department of Marine Resources; University of Maine	Expand existing

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	Department of Marine Resources and the University of Maine.		
	Launch the Coastal and Marine Information Exchange by 2024	Coordination by Governor's Office of Policy Innovation and the Future in collaboration with multiple state agencies, including Department of Agriculture, Conservation and Forestry; Department of Marine Resources; Department of Environmental Protection; Department of Inland Fisheries and Wildlife; and with outside stakeholders	New
4. Improve monitoring to understand and manage the response to climate change	Establish a "coordinating hub" with state and non-state partners for key climate change research and monitoring work to facilitate state-wide collaboration by 2024.	Coordination by Governor's Office of Policy Innovation and the Future in collaboration with multiple state agencies, including Department of Agriculture, Conservation and Forestry; Department of Marine Resources; Department of Environmental Protection; Department of Inland Fisheries and Wildlife; and with outside stakeholders	New, build on existing
	Create the framework and begin pilot stage of a coordinated, comprehensive monitoring system by 2024.	Coordination by Governor's Office of Policy Innovation and the Future across multiple state agencies and with outside stakeholders	New

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Action Area	Outcomes	Lead Agency	Additional Information
	Incorporate climate research and climate change related technology into Maine's research and development priorities such as those developed by the Maine Innovation Economy Advisory Board and the Maine Technology Institute.	Department of Economic and Community Development	New

**Strategy F: Build Healthy and Resilient Communities**

Action Area	Outcomes	Lead Agency	Additional Information
1. Empower local and regional community resilience efforts	Provide state leadership for robust technical assistance and funding to communities by 2024 to support local and regional climate resilience initiatives.	Governor's Office of Policy Innovation and the Future in coordination with Department of Agriculture, Conservation and Forestry; Department of Marine Resources; Department of Environmental Protection; Department of Inland Fisheries and Wildlife; Department of Transportation; Department of Economic and Community Development; and with stakeholders	New, build on existing

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2. Adopt official sea level rise projections.	Incorporate official state sea level rise projections into regulations by 2022 and require regular updates to ensure the projections utilize the latest scientific data.	Maine Department of Environmental Protection with Maine Climate Council Science and Technical Subcommittee	New
3. Update land use planning and legal tools for resilience	Develop and implement updated land use regulations, laws, and practices by 2024 in order to enhance community resilience to flooding and other climate impacts.	Coordination by Governor's Office of Policy Innovation and the Future across state agencies including Department of Agriculture, Conservation, and Forestry; Maine Housing; Department of Marine Resources; Department of Environmental Protection	Update existing
	By 2024, Maine will have convened stake-holder processes to make specific recommendations for changes in state regulations on the following land use issues: clean energy siting; land use practices; community flood risk reduction; and anticipating growth.	Coordination by Governor's Office of Policy Innovation and the Future and Governor's Energy Office across state agencies including Department of Agriculture, Conservation, and Forestry; Maine Housing; Department of Marine Resources; Department of Environmental Protection	New

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4. Public health monitoring, education, and prevention	Develop and implement more robust public health monitoring, education, and prevention practices by 2024 to achieve better health outcomes against climate change impacts.	Department of Environmental Protection; Maine Center for Disease Control; Department of Agriculture, Conservation and Forestry; and with municipalities and Maine Rural Water Association	New and update existing

**Strategy G: Invest in Climate-Ready Infrastructure**

Action Area	Outcomes	Lead Agency	Additional Information
1. Assess climate vulnerability and provide climate-ready design guidance	Complete a statewide infrastructure vulnerability assessment by 2023, as well as develop and implement design standards for resilience in infrastructure projects.	Department of Transportation; Department of Environmental Protection; Department of Agriculture, Conservation and Forestry; Department of Marine Resources; Land Use Planning Commission; Maine Emergency Management Agency; Maine Drinking Water Program; and other agencies and non-governmental partners	Build on existing

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2. State Infrastructure Adaptation Fund & predevelopment assistance	Launch a State Infrastructure Adaptation Fund and pre-development assistance program in 2021, designed to leverage federal recovery support in the short-term, and in the long-term to address the significant and ongoing infrastructure adaptation needs of the future.	Governor's Office of Policy Innovation and the Future in coordination with Department of Administration and Financial Services; Maine Emergency Management Agency; partnership across state and local governments	New

### Strategy H: Engage with Maine People and Communities about Climate Impacts and Program Opportunities

Action Area	Outcomes	Lead Agency	Additional Information
1. Raise awareness about climate change impacts and opportunities	Launch a multifaceted, ongoing communications effort in 2021 based on the Climate Action Plan to raise public awareness and understanding about climate change in Maine, the state's climate response actions, and climate-related programs and opportunities.	Governor's Office of Policy Innovation and the Future	New, build on existing
2. Increase public education related to climate and energy	Develop enhanced educational opportunities for climate science and clean energy careers in Maine public schools to meet increasing interest from students	Department of Education; Governor's Energy Office; Department of Labor	Expand existing



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	and educators. Launch a process in 2021 to engage key stakeholders including students, older youth, educators, and state leaders in next steps.		
3. Start the “Maine Climate Corps” for climate-related workforce development	Partner with service-learning organization and non-profit organizations to launch a Maine Climate Corps program by 2023.	Volunteer Maine, the state service commission	New
4. Recognize climate leadership by Maine businesses and organizations	Launch the Governor’s Climate Leadership Council in 2021 to increase private sector commitment toward voluntary climate actions.	Governor’s Office of Policy Innovation and the Future	New