

Strategy A: Welcome the Future of Transportation to Maine

Action Area	Action	By 2025	Lead Agency	New or Existing Program
Increase electric vehicle (EV) use	Equitable incentives	By 2030, XX % of all vehicle purchases in Maine are EVs	Efficiency Maine Trust	<i>To be filled in</i>
	Statewide EV Roadmap	In 2021, a Statewide EV roadmap has been developed to direct incentive programs, charging infrastructure, and equity outcomes and considerations	Governor’s Energy Office; Efficiency Maine Trust; Department of Transportation	
	EV chargers	EV chargers have been installed in priority areas with guidance from EV roadmap	Efficiency Maine Trust	
	Pilot projects for medium and heavy-duty vehicles, school buses, ferries	Maine has developed a strategy to encourage pilot adoption of electric, hybrid and alternative fuel medium- and heavy-duty vehicles, public transportation, school buses, and ferries	Maine Department of Transportation	
Reduce emissions from current gas and diesel engines	High fuel efficiency vehicle incentives	High fuel efficiency incentives program developed and implemented	Maine Department of Transportation; Efficiency Maine Trust	
	US EPA SmartWay Program	Increased participation in SmartWay program	Maine Department of Transportation; Maine Department of Environmental Protection	

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	Alternative fuels	Biofuels and biodiesel production and use has increased locally	Maine Department of Transportation	
	Federal Fuel Efficiency Standards	Maine supports efforts to improve federal fuel efficiency standards	Governor’s Office of Policy Innovation	
Reduce Vehicle Miles Traveled (VMT)	Broadband	Maine has deployed high speed broadband to 95% of Maine homes by 2025 and 99% by 2030.	ConnectME Authority	
	Encourage state investments in downtowns and village areas	Establish state coordination and strengthen land use policies and state grant programs to encourage development that support the reduction of vehicle miles traveled by XX.		
	Increase public transportation funding to \$5 per capita	Maine has increased public transportation funding to the national median of \$5 per capita.	Maine Department of Transportation	
	Expand GO Maine	GO Maine relaunches to significantly increase shared commuting options	Maine Department of Transportation	

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

Action Area	Action	By 2025	Lead Agency	New or Existing Program
Transition to cleaner heating and cooling systems and efficient appliances	Expand financial incentives and phase in tighter regulations for space heating and water heating	140,000 heat pumps installed in Maine; at least XX installed moderate and low-income households.	Efficiency Maine Trust; Maine Housing	
	Adopt appliance standards	Appliance Standards implemented by 2022		
Weatherize existing buildings	Expand access to weatherization for low- and moderate-income households	By 2025, Maine will have weatherized or done efficiency projects of XX additional homes and businesses with XX low- and moderate- income units served. By 2030, at least XX homes and x number of businesses will be weatherized.	Efficiency Maine Trust; Maine Housing	
Improve the design and construction of new buildings	phase-in modern, energy efficient building codes to reach net zero carbon emissions for new construction by 2035	Develop a long-term building codes plan to phase-in more stringent codes to reach net zero carbon emissions for new construction by 2035	Maine Fire Marshall; Efficiency Maine Trust; Governor’s Energy Office	
	Increase building code compliance	Enhance existing building codes training and expand availability to support education of contractors and code enforcement officials.	Maine Bureau of Building Codes and Standards; Efficiency Maine Trust	

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Action Area	Action	By 2025	Lead Agency	New or Existing Program
Promote climate-friendly building products	Give preference in state procurement to building materials with low-embodied-carbon	Procurement rules for state government to promote climate-friendly building materials	Department of Administration and Financial Services	
	Market climate-friendly Maine forest products	Develop and enhance marketing programs for climate friendly Maine forest products, including mass timber and wood fiber insulation.	Department of Economic and Community Development; Dept of Agriculture, Conservation and Forestry	
“Lead by Example” in publicly funded buildings	Amend state rules and procurement to achieve low embodied carbon, zero emissions, zero energy, and resilience in construction	Procurement rules for state government, affordable housing, and education to promote climate-friendly building materials and incentivize high performance buildings.	Governor’s Office of Policy Innovation and the Future; Governor’s Energy Office	
	Enhanced grant and loan programs to support municipal, school, and housing efficiency programs.			
Institute a Renewable Fuel Standard	Identify economic implications, implementation pathways, experience of other states, overlap and interaction with other fuel/heating equipment policies	Investigate the options for establishing a Renewable Fuels Standard (RFS) for all heating fuels.	Governor’s Energy Office	

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Action Area	Action	By 2025	Lead Agency	New or Existing Program
Phase-down the use of hydrofluorocarbons (HFCs)	Adopt phase-down of HFCs	HFC phase-down regulations adopted in 2021 and implemented by 2022	Department of Environmental Protection	

Strategy C: Drive Innovation to Reduce Carbon Emissions in Maine's Energy and Industrial Sectors

Action Area	Action	By 2025	Lead Agency	New or Existing Program
Ensure adequate affordable clean energy supply	<p>Structure policy to ensure the highest benefits to Maine, to compliment regional markets, and to ensure additional generation is developed in parallel to grid infrastructure.</p> <p>Consider additional procurements not already required in statute for clean energy resources.</p> <p>Prioritize new energy resources to ensure economic benefits to the state, including technologies such as offshore wind, distributed generation and energy storage.</p>	<p>By 2030 Maine will generate 80% of its electricity power from renewable sources.</p> <p>Create new, or expand existing, clean energy procurements based on the results from the Governor’s Energy Office report in 2021 and 2022.</p> <p>Set achievable targets for cost effective deployment of technologies such as offshore wind, distributed generation, energy storage and outline the policies, including opportunities for pilot initiatives, necessary to achieve these results.</p> <p>Undertake analysis and set targets to achieve 100% clean energy earlier</p>	Governor’s Energy Office; Public Utilities Commission	

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		than the 2050 goal in statute.		
Initiate a stakeholder process to modernize Maine’s electric grid	Examine and provide recommendations regarding transformation and planning of Maine’s electric sector to address and facilitate the recommendations of the Maine Climate Council	By 2022, Maine will establish a stakeholder process to examine and provide recommendations regarding transformation, modernization and planning of Maine’s electric sector to address and facilitate the recommendations of the Maine Climate Council.	Governor’s Energy Office; Maine Public Utilities Commission; Office of the Public Advocate; Efficiency Maine Trust, stakeholders	
Accelerate the decarbonization of industrial use and processes	Establish a working group to develop a long-range plan for achieving industrial emission reductions	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	
Encourage highly efficient Combined Heat and Power facilities	Consider the potential for long-term contracts with highly efficient combined heat and power (CHP) production facilities if they achieve significant net carbon reductions compared to the baseline	Conduct further analysis to consider the incentives, including the potential for long-term contracts, for needed to advance additional highly efficient combined heat and power (CHP) production facilities if they achieve significant net carbon reductions compared to the baseline.	Maine Public Utilities Commission	

Strategy D: Build Healthy and Resilient Communities

Action Area	Action	By 2025	Lead Agency	New or Existing Program
Assistance and funding for community resilience	Coordinate assistance across state agencies and with NGOs, university experts and other partners in developing programs and service delivery for communities	Cabinet level leadership and interagency coordination is in place.	Governor’s Office of Policy Innovation and the Future	
	Enhance community assistance and funding.	Community resilience assistance and funding program has XX towns participating.	Governor’s Office of Policy Innovation and the Future	
	Expand municipal guidance for community resilience activities.	Guidance products and assistance help towns prioritize actions based on their climate risks.	Governor’s Office of Policy Innovation and the Future; Department of Agriculture, Conservation, and Forestry; Department of Marine Resources	
Adopt official sea level rise projections.	Adopt official sea level rise projections.	Adopt official sea level rise projections, incorporate those projections into regulations, and require regular updates to ensure the projections utilize the latest data and science.		
Update land use planning and legal tools for resilience	Review and update land use laws, regulations, and tools.	Land use laws, regulations, and tools account for climate impacts and are made useful for climate	Coordination by Governor’s Office of Policy Innovation and the Future across multiple state agencies (DACF,	

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Action Area	Action	By 2025	Lead Agency	New or Existing Program
		resilience planning (including nature-based solutions, GHG mitigation, and sequestration).	DOT, Maine Housing, DMR, DEP)	
	Expand stormwater management monitoring and assistance.		Department of Environmental Protection	
	Modernize the regulatory review process.	Regulatory agencies are providing comprehensive, accurate and timely review of land and water resources and permitting of projects	Department of Environmental Protection; Department of Agriculture Conservation and Forestry; Department of Marine Resources	
	Develop guidance on 1) how to get people out of harm's way; and 2) how to manage in-migration to Maine from severely climate impacted parts of the country.	Maine will have guidance for equitably locating or relocating development out of harm's way; and on anticipating and managing growth, development, and economic opportunity as people migrate to Maine seeking safety from climate change impacts.	Maine Climate Council; Governor's Office of Policy Innovation and the Future	
Public health monitoring, education, and prevention	Expand air quality monitoring.	Monitor for harmful air quality (allergens, particulate matter, ozone)	Department of Environmental Protection; Maine Center for Disease Control	
	Expand water quality monitoring.	Monitor for vibrios, HABs, and emerging threats in big lakes, public surface water supply, and coastal waters.	Department of Environmental Protection; Department of Marine Resources	

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Action Area	Action	By 2025	Lead Agency	New or Existing Program
	Expand vector-borne disease monitoring.	Monitor for vector-borne disease districts at the regional level.	Maine Center for Disease Control	
	Expand public health education related to climate change impacts.	Regular, clear, consistent messaging about climate health impacts and resources.	Maine Center for Disease Control	
	Source water protection via land use tools		Maine Department of Environmental Protection	
	Prevent combined sewer overflow (CSO) discharges	Assess and prioritize infrastructure improvements to reduce CSO discharges.	Maine Department of Environmental Protection	
	Flood prone public and private drinking water wells	Identify and assess risk of all public and private drinking water wells located near floodplains.	Maine Center for Disease Control, Maine Department of Environmental Protection,	

Strategy E: Invest in Climate-Ready Infrastructure

Action Area	Action	By 2025	Lead Agency	New or Existing Program
Infrastructure vulnerability assessment & climate-ready design guidance	Conduct a statewide climate vulnerability assessment for infrastructure.	Complete vulnerability assessment of climate risk for major infrastructure classes.	Department of Transportation; Maine Department of Environmental Protection	
	Develop and adopt siting, materials, and design standards for climate-ready infrastructure. Update regularly.	Design guidance for infrastructure that takes climate change impacts, project lifespan, and nature-based solutions in account.	Department of Transportation; Maine Department of Environmental Protection; Department of Agriculture, Conservation and Forestry	

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State Infrastructure Adaptation Fund & predevelopment assistance	Launch an Infrastructure Adaptation Fund.	Maine will have an active Infrastructure Adaptation Fund (that has leveraged \$XX federal and private dollars); emphasize areas where climate risk overlaps with social and economic vulnerability (e.g. working waterfronts)	Governor’s Office of Policy Innovation and the Future; Department of Administration and Financial Services; Maine Emergency Management; partnership across state and local governments	
	Launch a predevelopment assistance program to make state and local infrastructure projects shovel-ready.	Predevelopment assistance is active and has a pipeline of XX projects.	Governor’s Office of Policy Innovation and the Future; Department of Administration and Financial Services; Maine Emergency Management; partnership across state and local governments	

Strategy F: Protect Maine’s natural and working lands and waters and Promote Natural Climate Solutions

Action Area	Action	By 2025	Lead Agency	New or Existing Program
Protect Maine’s natural and working lands and waters	Increase permanent protection of forest land and farmland; and protect, conserve and restore areas of high biodiversity value and areas that support land, aquatic, and coastal habitat connectivity and ecosystem health and climate change resilience	By 2030, conserve at least XX% of natural and working lands that would otherwise be developed. By 2030, conserve at least XX% of Maine’s coastal and marine ecosystems and habitats.	Department of Agriculture, Conservation and Forestry, Department of Marine Resources, Dept of Inland Fisheries and Wildlife	
	Continue and update climate-friendly public land management practices to	Update relevant state policies and environmental review	Department of Agriculture, Conservation and Forestry, Department	

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	incorporate current climate science, support landscape and species resiliency, and ensure appropriate renewable energy project siting	processes to incorporate current climate science and land management priorities	of Marine Resources, Department of Environmental Protection	
	Revise scoring criteria for state and federal land conservation funding sources to incorporate climate mitigation and resiliency goals into grant criteria and project selection.	Revise scoring criteria to incorporate climate change mitigation and resiliency goals into grant criteria and project selection	Department of Agriculture, Conservation and Forestry, DMR, Department of Inland Fisheries and Wildlife, DEP	
	Address land taxation to incentivize climate-friendly land management practices and forest management and conserve parcels with high biodiversity value		Department of Agriculture, Conservation and Forestry, Maine Revenue Services; Department of Inland Fisheries and Wildlife	
Increase carbon sequestration from natural and working lands and waters	Support the development of state or regional carbon sequestration programs targeting forest and agricultural lands and practices		Department of Agriculture, Conservation and Forestry	
	Explore the opportunity for formal blue carbon sequestration incentives or carbon permit program to encourage blue carbon habitat conservation and restoration	Conduct a comprehensive, coast-wide inventory of coastal and marine “blue carbon” resources to inform baseline estimates of current storage and sequestration and track changes in sequestration and emissions from blue carbon habitats over time.	Department of Marine Resources	

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Provide information, technical assistance, and outreach to land-based, coastal, and marine stakeholders	Natural Land Assistance: Increase technical service provider capacity to DIFW’s Beginning with habitat Program and DACF’s Natural Areas Program to support towns, land trusts, land managers and land owners in their efforts to protect native species and land and water vulnerable to climate change and to address climate-related threats such as invasive species.	Increase state technical assistance capacity for land-based and coastal and marine stakeholders	Department of Agriculture, Conservation and Forestry, Department of Inland Fisheries and Wildlife	
	Create a Coastal and Marine Information Exchange to provide accessible, relevant, information and decision support to facilitate climate mitigation and adaptation in Maine’s coastal communities and industries.	Establish a Coastal and Marine Information Exchange, in collaboration with coastal and marine stakeholder partners	Department of Marine Resources	
Improve monitoring to understand and manage the response to climate change	Develop a model for gathering data and a system for disseminating them widely so public and private sector decision makers can respond constructively to climate change impacts.	Establish a coordinating hub with State and non-State partners for key climate change research and monitoring work to facilitate state-wide collaboration		
	Develop and implement a coordinated funding strategy that leverages federal, state,	Establish a coordinated, comprehensive coastal	Department of Marine Resources, DEP	

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	foundation, and private sources towards an integrated coastal and marine ecosystem monitoring system.	and marine monitoring system		
	Continue to invest in the University of Maine research facilities in their efforts to become a globally recognized hub for climate-friendly bio-based wood market innovation, including Cross Laminated Timber (CLT), cellulosic insulation, pyrolysis oil, nanocellulosic materials, advanced biofuels, and bioplastics		University of Maine	
	Promote research, development and planning efforts supporting the growth and stability of Maine food systems	Research and development to support planning for the growth and stability of Maine food systems	Department of Agriculture, Conservation and Forestry	
	Characterize, map, and track marine and coastal habitats, species (including economically important, at-risk, and invasive species), and water quality to inform climate adaptive, ecosystem-based management; planning; and conservation and restoration priorities.	Produce widely accessible, actionable, decision-relevant data on marine and coastal habitats, species, and water quality	Department of Marine Resources, Department of Agriculture, Conservation and Forestry, DEP, DIFW	
	Improve tracking of economic and social conditions in Maine’s coastal communities.	Report indicators of economic and social conditions in coastal	DECD, Department of Marine Resources	

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		communities relevant to planning for climate change impacts		
	Conduct a comprehensive, coast-wide inventory of coastal and marine blue carbon resources to inform baseline estimates of current storage and sequestration. Track changes in sequestration and emissions from blue carbon habitats over time.	Produce a coast-wide inventory of coastal and marine blue carbon resources	Department of Marine Resources, DEP	
	Determine the role that strategic management of seaweed aquaculture plays in long term carbon burial and in reducing coastal acidification impacts.	Produce best practices for managing seaweed aquaculture to enhance long-term carbon burial and reducing coastal acidification	Department of Marine Resources, DEP	
	Enhance and coordinate tracking and modeling of future changes to the extent of intertidal habitats and beaches including tidal marshes, mudflats, dunes, and beaches as well as to subtidal habitats, including their flora and fauna.	Produce more detailed modeling of future coastal environment conditions and ecosystems in response to climate change and sea level rise	MGS, Department of Marine Resources, DEP	
	Implement forecasts for key environmental parameters at spatial and temporal scales that are relevant to business planning, operations, and management of Maine’s fisheries and aquaculture sectors.	Provide to stakeholders via the Coastal and Marine Information Exchange and Maine Seafood Business Council	Department of Marine Resources	

Strategy G: Protect Maine’s Natural Resource Industries and Grow Our Clean Energy Economy

Action Area	Action	By 2025	Lead Agency	New or Existing Program
Support Maine’s natural resource economies ability to adapt to climate change impacts and opportunities.	Establish a Maine Seafood Business Council to provide Maine’s seafood harvesters, shoreside businesses, and working waterfronts with access to information and tools that can support operational decisions, capital investments and long-range planning to implement climate adaptation and mitigation strategies.	By 2022, establish a Maine Seafood Business Council	Dept Marine Resources in in collaboration with Dept. Economic and Community Development and local/regional with economic development providers	
	Evaluate and implement ways to expand local and direct marketing opportunities for sustainably produced Maine seafood		Dept Marine Resources in in collaboration with Dept. Economic and Community Development and economic development providers	
	Support the growing aquaculture sector as a means to increase Maine seafood production, provide important economic opportunities for coastal communities and harness potential acidification mitigation		Dept Marine Resources in in collaboration with Dept. Economic and Community Development and economic development providers	

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	and other environmental services			
	Develop technical assistance, financing tools and policy strategies to help fishing and aquaculture businesses plan for and transition activities in a changing ocean ecosystem.		Dept Marine Resources in collaboration with Dept. Economic and Community Development and economic development providers	
	Evaluate and implement ways in which Maine’s fishery and aquaculture laws and regulations can provide the opportunity to address environmental change and emerging fisheries		Dept of Marine Resources with Dept of Environmental Protection and Department of Agriculture, Conservation and Forestry	
	Support to adopt carbon-friendly and resilient land management practices for timber management and soil health, encouraging high quality on-the-ground performance by loggers, facilitating the use of low-impact timber harvesting equipment, and providing assistance to prepare for emerging land management threats, such as pests, diseases and invasive species.	Maine grows its forest products industry from XX B to XXB, meeting goals for industry growth and ensuring well-managed forested lands stay forested.	Department of Agriculture, Conservation and Forestry in collaboration with Dept. Economic and Community Development	

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	Provide funding to support the use of agricultural and forestry mitigation and adaptation practices; incentivize infrastructure and technology upgrades to support the adoption of those practices including on-farm renewable energy use and other strategies to reduce fossil-fuel usage		Department of Agriculture, Conservation and Forestry, DIFW, Dept. Economic and Community Development	
	Provide financial support to strengthen Maine’s food systems, so that more food can be produced and processed locally, distributed efficiently, and priced affordably.	Maine’s local food system development increases the amount of food consumed from Maine farmers and harvesters from XX% to XX%	Department of Agriculture, Conservation and Forestry, Dept. Economic and Community Development	
Grow clean energy jobs and businesses in Maine through innovation, business support, and increased workforce education and training	(Clean Energy Economy Plan)	TBD goal to increase current clean energy workforce	Governor’s Energy Office	
Prepare shovel-ready infrastructure projects to revitalize Maine’s economy		By 2020, Maine has identified a pipeline of shovel-ready infrastructure projects.		

Strategy H: Support Increased Education for Maine People about Climate Change Impacts and Action Opportunities

Action Area	Action	By 2025	Lead Agency	New or Existing Program
Increase communication about climate change impacts and opportunities to engage in solutions	Multiple, diverse and ongoing communications will be required from both the state and trusted leaders and organizations to ensure information about climate, Maine’s climate actions, and available programs and resources.	Effective communications should start with the launch of the plan and continue.	Governor’s Office of Policy Innovation and the Future	
Increase public education on climate science and clean energy education pathways		Maine will increase education opportunities related to climate change in our public education systems.	Department of Education	
Establish a 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.	Maine Commission for Community Service; Governor’s Office of Policy Innovation and the Future, Efficiency Maine	
Highlight leadership on climate issues among Maine businesses and organizations		Launch Governor’s Climate Leadership Council in 2021 to increase private sector ambition toward voluntary climate actions	Governor’s Office of Policy Innovation and the Future	