efficiency MAINE

Efficiency Maine Advisory for Local Governments

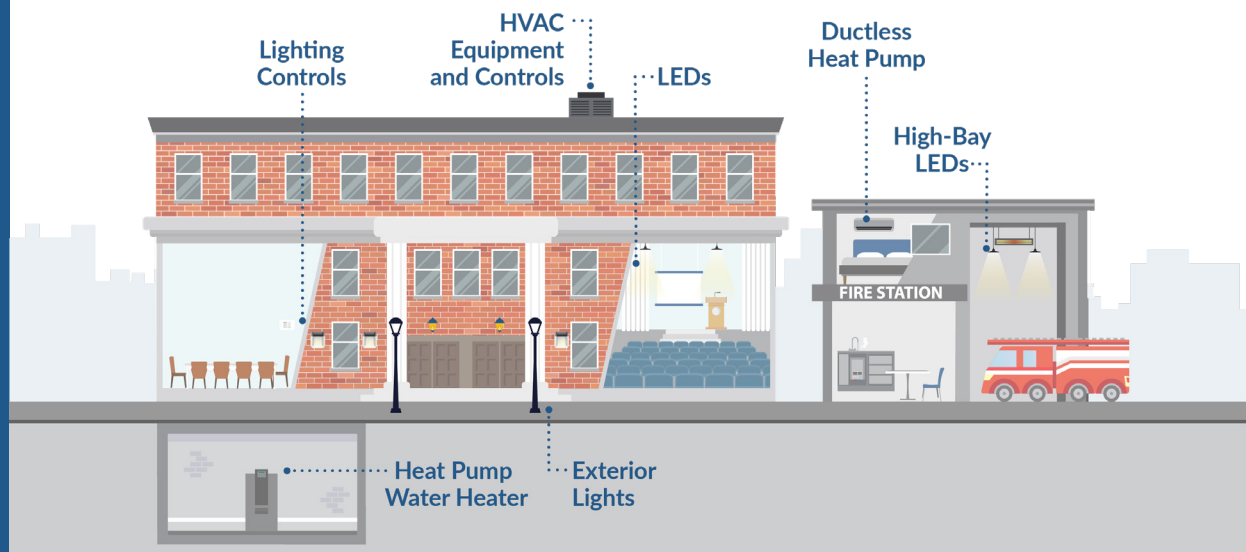
Energy Efficiency Opportunities

As Maine moves beyond the pandemic restrictions, local governments face once-in-a-generation investment choices: how can towns and counties deploy new federal and state funds in a way that will lower the local tax burden, cut carbon pollution, and make public buildings more comfortable, productive and resilient? The answer is easy: **invest in energy efficiency.**

Just over 10 years ago, Maine's municipalities received millions in federal stimulus funds to make energy upgrades in schools, fire and police stations, town offices, athletic centers, public works garages, gyms, parks, and streetlights. They used the funds to insulate basement foundations, put up LED lights, and install modern heating systems. Recent developments in building materials and heating, ventilation and air conditioning (HVAC), and electric vehicles offer affordable opportunities to lower operating costs while reducing greenhouse gas emissions.

This document provides examples of energy efficiency projects commonly installed by local governments in Maine and links to resources where you can get more information on this subject. We encourage municipal officials to consider these types of projects when making budget decisions for the use of federal and state infrastructure programs, and to consult with legal counsels to determine if such projects will meet the applicable eligibility requirements.

Efficiency Maine offers rebates for energy projects that include upgrading to high-performance heat pumps and variable refrigerant flow HVAC systems, wastewater treatment upgrades, electric vehicles, lighting and more. Stretch your funding further by visiting efficiencymaine.com, or call us at 866-376-2463, to see what rebates we are offering and learn about next steps. (Note: Efficiency Maine rebate amounts are subject to change without notice.).



Examples of Municipal Heat Pump Projects

MUNICIPALITY	LOCATION	EQUIPMENT	UNITS	MATERIAL COST	TOTAL COST	EFFICIENCY MAINE INCENTIVE*
Alfred	Town Hall	Single Zone Heat Pump *9,000 Btu/hr*	2	$4,905	$9,225	$3,200
Belmont	Fire House	Single Zone Heat Pump *15,000 Btu/hr*	1	$4,075	$5,115	$1,600
Belmont	Town Office	Single Zone Heat Pump *15,000 Btu/hr*	3	$11,904	$14,244	$4,800
Medway	Fire Department	Single Zone Heat Pump *15,000 Btu/hr*	2	$5,400	$7,600	$3,200
Norridgewock	Town Office	Single Zone Heat Pump *15,000 Btu/hr and 9,000 Btu/hr*	3	$8,875	$11,750	$4,800
Richmond	Public Works	Single Zone Heat Pump *9,000 Btu/hr*	2	$5,341	$6,541	$3,200

* Not representative of current program incentives. Visit https://www.efficiencymaine.com/at-work/ci-incentive-program/ for the most up-to-date incentive amounts

Examples of Municipal Variable Refrigerant Flow (VRF) Projects

MUNICIPALITY	LOCATION	EFFICIENCY MAINE INCENTIVE*	PROJECT COST	SQUARE FEET SERVED	COST PER SQUARE FOOT	COOLING CAPACITY	PREVIOUS HEATING FUEL
Bangor	Bangor School Department	$44,370	$98,575	7,395 ft^2	$13.33	153,300 *Btu/hour*	Oil
Fryeburg	Fryeburg Academy Student Union	$37,960	$93,391	11,680 ft^2	$8.10	138,000 *Btu/hour*	New Construction
Poland	Regional School Unit (RSU) 16	$8,700	$19,329	1,450 ft^2	$12.33	69,000 *Btu/hour*	Oil
Southwest Harbor	Public Library	$22,516	$65,128	5,629 ft^2	$11.57	138,000 *Btu/hour*	Oil
Brunswick	Brunswick Elementary School	$217,860	$347,950	67,033 ft^2	$5.19	120,000 *Btu/hour*	New Construction

* Not representative of current program incentives. Visit https://www.efficiencymaine.com/docs/Heating-and-Cooling-Measures-and-Incentives.pdf for the most up-to-date incentive amounts.

Examples of Wastewater Treatment Projects

MUNICIPALITY	LOCATION	EQUIPMENT INSTALLED	TOTAL COST	EFFICIENCY MAINE INCENTIVE*	ENERGY SAVINGS
Augusta	Greater Augusta Utility District *Augusta Wastewater Treatment Plant*	High-efficiency blowers and pumps	$120,627	$60,220	• 244,242 kWh/year • 50 kW
Bangor	Bangor Water District *Essex Street Water Storage Tank*	Passive water mixing system	$140,000	$49,500	• 49,000 kWh/year • 11 kW
Lewiston/Auburn	Lewiston/Auburn *Water Pollution Control Authority (LAWPCA)*	Two 230 kW Liebherr co-generation engines	$817,000	$330,000	• 2.9 million kWh/year • 168 kW
Portland	Portland Water District *Sebago Lake Water Treatment Facility*	UV disinfection system, ozone generation system, HVAC upgrades, high-efficiency lighting	$1,907,670	$300,000	• 2.4 million kWh/year • 239 kW
Portland	Portland Water District *East End Wastewater Treatment Facility*	High-efficiency blowers	$415,880	$203,337	• 726,000 kWh/year • 158 kW

* Not representative of current program incentives. Visit https://www.efficiencymaine.com/at-work/commercial-industrial-custom-program/ for the most up-to-date incentive amounts.

Examples of Municipal Electric Vehicle Projects

Charging Stations

MUNICIPALITY	EQUIPMENT INSTALLED	TOTAL COST	EFFICIENCY MAINE INCENTIVE*
City of Auburn	Two single port, non-networked wall mounted level 2 chargers	$8,399	$4,200
City of Augusta	One dual port, networked pedestal level 2 charger	$25,778	$5,000
City of Bangor	One dual port, networked pedestal level 2 charger	$13,357	$5,000
Town of Fort Kent	One dual port, non-networked wall mounted level 2 charger	$7,629	$5,760
City of Portland	One dual port pedestal, networked level 2 charger	$22,304	$5,000
Town of Thomaston	Two single port, non-networked level 2 chargers	$6,492	$2,500

* Not representative of current program incentives. Visit https://www.efficiencymaine.com/opportunities/ for current EV charger funding opportunities.

Examples of Municipal Electric Vehicle Projects

Electric Vehicles

MUNICIPALITY	NUMBER OF VEHICLES	MODEL	EFFICIENCY MAINE INCENTIVE*
City of Auburn	1	Nissan LEAF	$7,500
City of Bangor (Community Connector)	2	Chrysler Pacifica PHEV *(wheelchair-accessible)*	$10,000
Town of Fairfield	3	Hyundai Kona	$36,000
Town of Oakland	2	Hyundai Kona	$24,000
Town of Raymond	1	Chevrolet Bolt	$12,000
RSU 16 (Poland/Minot/Mechanic Falls)	2	Hyundai Kona	$24,000

* Not representative of current program incentives. Visit https://www.efficiencymaine.com/electric-vehicle-rebates/ for the most up-to-date incentive amounts.

Examples of School Lighting Projects

SCHOOL NAME	DISTRICT	ANNUAL KWH SAVINGS	ANNUAL ENERGY COST SAVINGS	TOTAL COST	EFFICIENCY MAINE INCENTIVE*
Brewer High School	Brewer	21,699 kWh	$3,255	$13,077	$6,510
Lake Region Vocational Center	Lake Region	32,359 kWh	$4,854	$9,070	$7,256
Limestone	Limestone	129,975 kWh	$19,496	$84,619	$38,957
Millinocket - Granite Street School	Millinocket	47,668 kWh	$7,150	$29,526	$14,300
Phippsburg Elementary School	RSU 1	8,037 kWh	$1,206	$3,953	$2,411
Songo Locks Elementary School	Lake Region	7,122 kWh	$1,068	$2,917	$2,137
St. John Valley Technology Center	MSAD 33	46,163 kWh	$6,924	$32,975	$13,041
Washburn High School	MSAD 45	67,184 kWh	$10,078	$41,278	$19,976

* Not representative of prescriptive program incentives. Visit https://www.efficiencymaine.com/docs/Lighting-Solutions-and-Incentives.pdf for most up-to-date incentive amounts.

Links to helpful resources

U.S. Department of the Treasury Guidance on use of American Rescue Plan (ARP) COVID State and Local Fiscal Recovery Funds:

- Treasury Coronavirus State and Local Fiscal Recovery Funds FAQ (As of May 10, 2021) Assistance for State, Local, and Tribal Governments
- Maine Municipal Association American Rescue Plan Updates
- The Maine Jobs & Recovery Plan
- Efficiency Maine Commercial and Industrial (C&I) Prescriptive Incentive Program
- Efficiency Maine Electric Vehicle Rebate Program
- Electric Vehicle Resources for Fleets and Installation of Charging Infrastructure
- Efficiency Maine Qualified Partner Locator
- National Renewable Energy Laboratory - Data and Tools
  - Buildings
  - Energy Analysis
  - Water
- A Guide to Zero Energy and Zero Energy Ready K-12 Schools