

Maryland Energy Administration

MISSION

The mission of the Maryland Energy Administration (MEA) is to promote clean, affordable, reliable energy and energy-related greenhouse gas emission reductions to benefit Marylanders in a just and equitable manner.

VISION

The Maryland Energy Administration will advance impactful energy policies and programs to help achieve Maryland's clean energy and greenhouse gas reduction goals.

KEY GOALS, OBJECTIVES, AND PERFORMANCE MEASURES

Goal 1. Increase Maryland's energy efficiency and energy conservation.

Obj. 1.1 Implement energy efficiency grant programs to help Maryland residents reduce energy usage and lower energy bills.

Performance Measures	2019 Act.	2020 Act.	2021 Act.	2022 Act.	2023 Est.	2024 Est.	2025 Est.
Annual energy savings (million British Thermal Units-MMBTU) from energy efficiency grant programs that benefit low-to-moderate income Maryland residents	5,890	5,753	19,238	42,987	58,331	34,740	19,140
Dollars awarded for energy efficiency grant programs that benefit low-to-moderate income Maryland residents (\$ millions)	N/A	N/A	N/A	\$ 14.34	\$ 19.37	\$ 19.50	\$ 11.24
Annual energy savings (MMBTU) from all other energy efficiency grant programs	139,531	259,815	300,687	70,145	50,865	140,600	81,120
Dollars awarded for all other energy efficiency grant programs (\$ millions)	N/A	N/A	N/A	\$ 6.21	\$ 3.22	\$ 24.50	\$ 12.75
Anticipated CO2 equivalent (metric tons) avoided per year from energy efficiency programs that benefit low-to-moderate income Maryland residents	N/A	N/A	N/A	N/A	4,008	2,345	1,351
Anticipated CO2 equivalent (metric tons) avoided per year from all other energy efficiency programs	N/A	N/A	N/A	N/A	3,949	12,615	7,280

Obj. 1.2 Provide loans through the Lawton Program for cost effective projects that will result in energy savings and greenhouse gas emission reductions.

Performance Measures	2019 Act.	2020 Act.	2021 Act.	2022 Act.	2023 Act.	2024 Est.	2025 Est.
¹ Annual energy savings (MMBTUs)	3,029	4,865	2,365	27,649	6,100	13,393	9,566
Anticipated CO2 equivalent (metric tons) avoided per year from Jane Lawton projects	N/A	N/A	N/A	N/A	553	1,208	863

Maryland Energy Administration

Goal 2. Help Maryland achieve the goal of 100% clean energy by 2035

Obj. 2.1 Support Maryland's goal to generate 100% clean energy through grants, tax credits, and outreach.

Performance Measures (Calendar Year)	2019 Act.	2020 Act.	2021 Act.	2022 Act.	2023 Est.	2024 Est.	2025 Est.
Total in-state renewable energy generation (thousand megawatt hours)	4,558	4,101	4,666	4,429	4,761	5,637	5,990
In-state Renewable Energy Generation by Type							
Solar	1,459	1,521	1,657	1,863	2,175	2,871	3,224
Utility-Scale Solar	494	527	632	762	992	1,602	1,865
Small-Scale PV	965	994	1,025	1,101	1,183	1,269	1,359
Geothermal	0	0	0	0	0	0	0
Hydro	2,188	1,697	2,117	1,772	1,770	1,950	1,950
Wind	520	546	517	498	520	520	520
Other	391	337	375	296	296	296	296
Other Sources of Maryland electricity generation by Type	35,732	32,923	34,594	33,968	33,979	33,979	32,332
Coal	5,722	3,360	5,174	4,639	4,639	4,639	2,992
Petroleum	67	70	73	140	140	140	140
Natural Gas	14,605	14,092	13,977	14,084	14,000	14,000	14,000
Nuclear	15,013	15,081	14,994	14,811	14,900	14,900	14,900
Other non-renewable	325	320	376	294	300	300	300

Maryland Energy Administration

Obj. 2.2 Implement energy programs that encourage in-state renewable energy resources.

Performance Measures	2019 Act.	2020 Act.	2021 Act.	2022 Act.	2023 Act.	2024 Est.	2025 Est.
Number of awards issued to Maryland residents, businesses, and local governments to incentivize in-state renewable energy	3,045	2,913	2,831	4,392	5,473	5,500	5,500
Solar photovoltaic technology incentivized (kW)	38,555	32,645	44,019	67,026	131,424	114,600	210,000
Dollars awarded for solar photovoltaic technology (\$ millions)	N/A	N/A	N/A	\$ 11.23	\$ 21.40	\$ 35.40	\$ 98.50
Tons of geothermal/ground source heat pump capacity installed in Maryland incentivized by MEA programs	909	1,171	879	787	920	1,110	1,110
Dollars awarded for geothermal heat pumps (\$)	N/A	N/A	N/A	\$ 491,000	\$ 578,500	\$ 675,000	\$ 675,000
Biomass (wood and pellet) stove capacity installed in Maryland incentivized by MEA programs (millions BTU/hr)	19	15.190	8.218	10.773	9.020	9.000	0.00
Dollars awarded for biomass stoves (\$)	N/A	N/A	N/A	\$ 156,400	\$ 129,100	\$ 125,000	\$ -
Anticipated CO2 equivalent (metric tons) avoided per year for awards for in-state renewable energy projects incentivized by MEA energy programs	N/A	N/A	N/A	N/A	52769	44500	82835
² Number of battery storage projects incentivized	N/A	N/A	164	155	154	150	150
² Financial incentives for battery storage projects (\$)	N/A	N/A	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000

Maryland Energy Administration

Goal 3. Diversify Maryland's transportation network by encouraging the utilization of zero emission vehicles.

Obj. 3.1 Assist the State in achieving 300,000 zero emission vehicle registrations by 2025 through incentives, marketing, and education.

Performance Measures	2019 Act.	2020 Act.	2021 Act.	2022 Act.	2023 Act.	2024 Est.	2025 Est.
Total Zero Emission Vehicles (ZEV) registered in Maryland	20,722	25,742	34,841	51,604	75,861	96,000	109,500
Number of fleet ZEVs incentivized by MEA	N/A	N/A	N/A	33	37	40	100
Dollars awarded for fleet ZEVs (\$ millions)	N/A	N/A	N/A	\$ 3.08	\$ 3.21	\$ 4.00	\$ 10.00
Total public electric vehicle charging ports in Maryland	1,864	2,207	2,769	3,390	4,340	4,750	5,370
Electric vehicle charging stations incentivized by MEA	1,050	1,135	1,949	2,004	1,897	2,950	2,950
Funding provided for EV charging stations incentivized by MEA (\$ millions)	N/A	N/A	N/A	\$ 1.80	\$ 1.80	\$ 2.80	\$ 2.80
Hydrogen fueling stations in Maryland	0	0	0	0	0	0	0
Gallons of petroleum displacement attributable to ZEVs (millions)	7.12	9.68	13.27	20.02	30.12	30.98	35.36
Estimated pounds of CO2 equivalent reductions attributable to ZEVs (millions)	N/A	N/A	273	388	713	833	951

NOTES

¹ Due to the merger of the State Agency Loan Program (SALP) into the Jane E. Lawton Conservation Loan Program, SALP-related savings are reported in the 2019 data.

² This metric is reported on a calendar year basis. 2023 data is estimated.