

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	2021 Act.	2022 Act.	2023 Act.	2024 Act.	2025 Act.	2026 Est.	2027 Est.
Annual energy savings (million British Thermal Units-MMBTU) from energy efficiency grant programs that benefit low-to-moderate income Maryland residents	19,238	42,987	58,331	20,916	12,055	20,000	20,000
Dollars awarded for energy efficiency grant programs that benefit low-to-moderate income Maryland residents (\$ millions)	\$ 6.00	\$ 14.34	\$ 19.37	\$ 19.37	\$ 23.45	\$ 17.20	\$ 17.20
Annual energy savings (MMBTU) from all other energy efficiency grant programs	300,687	70,145	50,865	101,729	161,222	160,000	160,000
Dollars awarded for all other energy efficiency grant programs (\$ millions)	\$ 1.65	\$ 6.21	\$ 3.22	\$ 28.30	\$ 16.68	\$ 31.40	\$ 31.40
Anticipated CO2 equivalent (metric tons) avoided per year from energy efficiency programs that benefit low-to-moderate income Maryland residents	1,350	2,825	4,008	3,971	735	4,000	4,000
Anticipated CO2 equivalent (metric tons) avoided per year from all other energy efficiency programs	3,149	7,272	3,949	5,160	7,394	5,000	5,000

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	2021 Act.	2022 Act.	2023 Act.	2024 Act.	2025 Act.	2026 Est.	2027 Est.
Annual energy savings (MMBTUs)	2,365	4,620	6,100	2,766	2,509	3,800	3,800
Anticipated CO2 equivalent (metric tons) avoided per year from Jane Lawton projects	N/A	412	553	234	448	500	500

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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)	2021 Act.	2022 Act.	2023 Act.	2024 Act.	2025 Est.	2026 Est.	2027 Est.
Total in-state Clean Energy generation (thousand megawatt hours)	19,660	19,392	19,959	20,151	20,387	21,573	21,687
In-state Clean Energy Generation by Type							
Solar	1,657	1,997	2,325	2,636	2,969	4,264	4,434
Utility-Scale Solar	632	714	943	1,111	1,266	2,392	2,392
Small-Scale PV	1,025	1,283	1,382	1,525	1,703	1,872	2,042
Geothermal	0	0	0	0	0	0	0
Hydro	2,117	1,780	1,849	1,853	1,767	1,699	1,631
Wind	517	498	482	558	553	575	650
Nuclear	14,994	14,811	14,984	14,767	14,777	14,723	14,669
Other	375	306	319	337	321	312	303
Other Sources of Maryland electricity generation by Type	19,600	19,026	17,421	17,188	16,100	15,361	15,553
Coal	5,174	4,639	1,709	2,466	930	0	0
Petroleum	73	143	64	204	209	243	277
Natural Gas	13,977	13,950	15,336	14,179	14,639	14,804	14,970
Other non-renewable	376	294	312	339	322	314	306

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

Performance Measures	2021 Act.	2022 Act.	2023 Act.	2024 Act.	2025 Act.	2026 Est.	2027 Est.
Number of awards issued to Maryland residents, businesses, and local governments to incentivize in-state renewable energy	2,831	4,392	5,473	7,495	8,912	8,912	8,912
Solar photovoltaic technology incentivized (kW)	44,019	67,026	131,424	91,255	116,291	131,948	131,948
Dollars awarded for solar photovoltaic technology (\$ millions)	\$ 8.00	\$ 11.23	\$ 21.40	\$ 24.53	\$ 59.80	\$ 63.51	\$ 63.51
Tons of geothermal/ground source heat pump capacity installed in Maryland incentivized by MEA programs	879	787	920	895	913	913	913
Dollars awarded for geothermal heat pumps (\$)	\$ 534,500	\$ 477,000	\$ 555,000	\$ 537,000	\$ 545,747	\$ 545,747	\$ 545,747
Anticipated CO2 equivalent (metric tons) avoided per year for awards for in-state renewable energy projects incentivized by MEA energy programs	51,043	24,868	52,769	73,292	80,712	80,712	80,712
Number of battery storage projects incentivized	3	1	0	12	7	400	400
Financial incentives for battery storage projects (\$)	\$ 750,000	\$ 750,000	0	\$ 7,855,900	\$ 3,157,970	\$ 4,500,000	\$ 4,500,000

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	2021 Act.	2022 Act.	2023 Act.	2024 Act.	2025 Act.	2026 Est.	2027 Est.
Total Zero Emission Vehicles (ZEV) registered in Maryland	34,841	51,604	75,861	103,400	141,784	163,960	163,960
Number of fleet ZEVs incentivized by MEA	N/A	33	37	56	162	88	88
Dollars awarded for fleet ZEVs (\$ millions)	N/A	\$ 3.08	\$ 3.21	\$ 8.60	\$ 21.07	\$ 13.20	\$ 13.20
Number of Medium-Duty & Heavy-Duty ZEVs incentivized by MEA	N/A	N/A	N/A	N/A	162	88	88
Total public electric vehicle charging ports in Maryland	2,769	3,390	4,340	5,370	5,328	6,243	6,838
Electric vehicle charging stations incentivized by MEA	1,878	2,118	1,897	2,887	2,818	2,800	250
Funding provided for EV charging stations incentivized by MEA (\$ millions)	\$ 1.80	\$ 1.80	\$ 1.80	\$ 2.50	\$ 14.30	\$ 14.00	\$ 14.00
Hydrogen fueling stations in Maryland	0	0	0	0	0	0	0
Gallons of petroleum displacement attributable to ZEVs (millions)	13.27	20.02	30.12	41.30	57.44	66.49	81.22
Estimated pounds of CO2 equivalent reductions attributable to ZEVs (millions)	273	388	713	1,293	1,448	1,921	2,182