

Maryland Energy Administration

MISSION

The mission of the Maryland Energy Administration (MEA) is to promote affordable, reliable and cleaner energy for the well-being of all Marylanders.

VISION

For all Maryland entities to have access to and benefit from affordable, clean, reliable, and resilient energy.

KEY GOALS, OBJECTIVES, AND PERFORMANCE MEASURES

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

Obj. 1.1 Reduce per capita peak electricity demand and electricity consumption.

Performance Measures	2018 Act.	2019 Act.	2020 Act.	2021 Act.	2022 Est.	2023 Est.	2024 Est.
Cumulative change in per capita peak demand (kW/person) compared to the 2007 baseline (2.556 kW/person)	-0.3367	-0.0567	-0.0667	-0.1367	-0.0617	-0.0617	-0.0617
Cumulative percent change in per capita peak demand compared to the 2007 baseline (2.556 kW/person)	-13.17%	-2.22%	-2.61%	-5.35%	-2.42%	-2.41%	-2.41%
Cumulative change in per capita electricity consumption compared to the 2007 baseline (12.3773 MWH)	-1.70	-1.89	-2.11	-2.36	-2.56	-2.75	-2.76
Cumulative percent change in per capita electricity consumption compared to the 2007 baseline (12.3773 MWH)	-13.73%	-15.25%	-17.03%	-19.05%	-20.66%	-22.25%	-22.28%
Avoided electricity costs (\$ millions)	1,128	1,255	1,431	1,602	1,738	1,871	1,874

Obj. 1.2 Implement energy efficiency grant programs to help Maryland residents reduce energy usage and lower energy bills.

Performance Measures	2018 Act.	2019 Act.	2020 Act.	2021 Act.	2022 Act.	2023 Est.	2024 Est.
¹ Annual energy savings (million British Thermal Units-MMBTU) from energy efficiency grant programs that benefit low-to-moderate income Maryland residents	14,682	14,710	15,800	19,238	42,987	46,900	58,445
Dollars awarded for energy efficiency grant programs that benefit low-to-moderate income Maryland residents (\$ millions)	N/A	N/A	N/A	N/A	14.3	16.5	19.5
² Annual energy savings (MMBTU) from all other energy efficiency grant programs	168,843	139,531	259,815	300,687	70,145	283,000	446,000
Dollars awarded for all other energy efficiency grant programs (\$ millions)	N/A	N/A	N/A	N/A	6.2	16.3	29.8

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Goal 2. Local governments, non-profits, State agencies and businesses will improve their energy efficiency.

Obj. 2.1 Provide loans through the Lawton Program for cost effective projects that will result in energy savings.

Performance Measures	2018 Act.	2019 Act.	2020 Act.	2021 Act.	2022 Act.	2023 Est.	2024 Est.
³ Annual energy savings from Jane Lawton projects (\$)	197,760	278,524	217,229	175,530	932,102	217,000	740,000
³ Annual energy savings (MMBTUs)	8,104	3,029	4,865	2,365	27,649	4,500	15,800

Goal 3. Increase electricity generation fuel diversity through the increased use of in-state renewable energy.

Obj. 3.1 Support further increases in in-state generation of clean and renewable energy through grants, tax credits, and outreach.

Performance Measures	2018 Act.	2019 Act.	2020 Act.	2021 Act.	2022 Est.	2023 Est.	2024 Est.
Total megawatt hours (MWh) of in-state renewable energy generation	5,168	4,558	4,206	4,716	4,817	5,157	5,646
In-state Renewable Energy Generation by Type							
Solar	1,246	1,459	1,619	1,699	1,797	2,137	2,434
Utility-Scale Solar	397	494	604	663	663	897	956
Small-Scale PV	849	965	1,015	1,036	1,134	1,240	1,478
Geothermal	0	0	0	0	0	0	0
Hydro	2,831	2,188	1,701	2,120	2,120	2,120	2,120
Wind	570	520	546	517	520	520	712
Other	521	391	340	380	380	380	380

Obj. 3.2 Implement energy programs that encourage in-state renewable energy resources.

Performance Measures	2018 Act.	2019 Act.	2020 Act.	2021 Act.	2022 Act.	2023 Est.	2024 Est.
Number of awards issued to Maryland residents, businesses, and local governments to incentivize in-state renewable energy	2,702	3,045	2,913	2,831	4,392	4,140	4,830
Solar photovoltaic technology incentivized (kW)	26,847	38,555	32,645	44,019	67,026	107,700	137,200
Dollars awarded for solar photovoltaic technology (\$ millions)	N/A	N/A	N/A	N/A	11.2	18.1	23.0
Tons of geothermal/ground source heat pump capacity installed in Maryland incentivized by MEA programs	601	909	1,171	879	787	1,210	1,550
Dollars awarded for geothermal heat pumps (\$)	N/A	N/A	N/A	N/A	491,000	760,000	968,000
Biomass (wood and pellet) stove capacity installed in Maryland incentivized by MEA programs (millions BTU/hr)	22	19,300	15,190	8,218	10,773	13,086	16,668
Dollars awarded for biomass stoves (\$)	N/A	N/A	N/A	N/A	156,400	84,000	242,000

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Goal 4. Diversify Maryland's transportation network by encouraging the utilization of zero emission vehicles.

Obj. 4.1 Assist the State in achieving 300,000 zero emission vehicle registrations by 2025 through incentives, marketing, and education.

Performance Measures	2018 Act.	2019 Act.	2020 Act.	2021 Act.	2022 Act.	2023 Est.	2024 Est.
Total Zero Emission Vehicles (ZEV) registered in Maryland	13,207	20,722	25,742	34,841	51,604	68,900	84,599
Number of fleet ZEVs incentivized by MEA	N/A	N/A	N/A	N/A	33	63	54
Dollars awarded for fleet ZEVs (\$ millions)	N/A	N/A	N/A	N/A	3.1	6.5	5.5
Total public electric vehicle charging stations in Maryland	1,325	1,864	2,207	2,769	3,390	4,400	6,000
Electric vehicle charging stations incentivized by MEA	626	1,050	1,135	1,949	2,004	1,900	2,950
Funding provided for EV charging stations incentivized by MEA (\$ millions)	N/A	N/A	N/A	N/A	1.8	1.8	2.8
Hydrogen fueling stations in Maryland	0	0	0	0	0	0	0
Gallons of petroleum displacement attributable to ZEVs (millions)	4.68	7.12	9.68	13.27	20.02	26.73	33.17
Estimated pounds of CO2 equivalent reductions attributable to ZEVs (millions)	N/A	N/A	N/A	273	388	518	643

NOTES

¹ Data for 2020, 2021, and 2022 are estimated.

² Data for 2019, 2020, 2021, and 2022 are estimated.

³ 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.