

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	2017 Act.	2018 Act.	2019 Act.	2020 Act.	2021 Est.	2022 Est.	2023 Est.
Cumulative change in per capita peak demand (kW/person) compared to the 2007 baseline (2.556 kW/person)	-0.3467	-0.3367	-0.4167	-0.4233	-0.3835	-0.3750	-0.3700
Cumulative percent change in per capita peak demand compared to the 2007 baseline (2.556 kW/person)	-13.56%	-13.17%	-16.30%	-16.56%	-15.00%	-14.67%	-14.48%
Cumulative change in per capita electricity consumption compared to the 2007 baseline (12.3773 MWH)	-1.85	-1.70	-1.89	-2.11	-2.09	-2.04	-1.93
Cumulative percent change in per capita electricity consumption compared to the 2007 baseline (12.3773 MWH)	-14.95%	-13.73%	-15.25%	-17.03%	-16.86%	-16.45%	-15.62%
Avoided electricity costs (\$ millions)	1,224	1,128	1,255	1,431	1,417	1,383	1,313

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

Performance Measures	2017 Act.	2018 Act.	2019 Act.	2020 Act.	2021 Act.	2022 Est.	2023 Est.
¹ Annual energy savings (million British Thermal Units-MMBTU) from energy efficiency grant programs that benefit low-to-moderate income Maryland residents	35,761	14,682	17,880	15,800	19,238	43,064	36,996
² Annual energy savings (MMBTU) from all other energy efficiency grant programs	265,374	168,843	139,531	259,815	300,687	480,943	322,188

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

Obj. 2.1 Provide loans through the Jane E. Lawton Conservation Loan Program that will result in \$157,000 in energy cost savings annually, over the life of the project.

Performance Measures	2017 Act.	2018 Act.	2019 Act.	2020 Act.	2021 Act.	2022 Est.	2023 Est.
³ Annual energy savings from Jane Lawton projects (\$)	12,950	197,760	278,524	217,229	175,530	197,471	246,838
³ Annual energy savings (MMBTUs)	348	8,104	3,029	4,865	2,365	2,661	3,326

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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	2017 Act.	2018 Act.	2019 Act.	2020 Act.	2021 Est.	2022 Est.	2023 Est.
Total megawatt hours (MWh) of in-state renewable energy generation	4,064	5,168	4,558	4,206	4,831	4,987	5,142
In-state Renewable Energy Generation by Type							
Solar	1,002	1,246	1,459	1,619	1,774	1,930	2,085
Utility-Scale Solar	267	397	494	604	660	717	773
Small-Scale PV	735	849	965	1,015	1,114	1,213	1,312
Geothermal	0	0	0	0	0	0	0
Hydro	1,965	2,831	2,188	1,701	2,171	2,171	2,171
Wind	561	570	520	546	546	546	546
Other	536	521	391	340	340	340	340

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

Performance Measures	2017 Act.	2018 Act.	2019 Act.	2020 Act.	2021 Act.	2022 Est.	2023 Est.
Number of awards issued to Maryland residents, businesses, and local governments to incentivize in-state renewable energy	3,017	2,702	3,045	2,913	2,831	2,789	2,302
Solar photovoltaic technology incentivized (kW)	21,413	26,847	38,555	32,645	44,019	53,478	31,564
Tons of geothermal/ground source heat pump capacity installed in Maryland incentivized by MEA programs	2,181	601	909	1,171	879	866	789
Biomass (wood and pellet) stove capacity installed in Maryland incentivized by MEA programs (millions BTU/hr)	25.824	21.733	19.300	15.190	8.218	8.100	7.300
Wind capacity installed incentivized by MEA programs (kW)	0	0	0	0	0	0	0
Solar thermal capacity incentivized by MEA programs (in square feet)	4,864	2,686	141	51	0	0	0

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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	2017 Act.	2018 Act.	2019 Act.	2020 Act.	2021 Act.	2022 Est.	2023 Est.
Total Zero Emission Vehicles (ZEV) registered in Maryland	9,369	13,207	20,722	25,742	34,841	43,079	51,650
Total public electric vehicle charging stations in Maryland	1,134	1,325	1,864	2,207	2,769	3,331	3,893
Electric vehicle charging stations incentivized by MEA	326	626	1,050	1,135	1,949	2,759	3,569
Hydrogen fueling stations in Maryland	0	0	0	0	0	0	0
Gallons of petroleum displacement attributable to ZEVs (millions)	3.55	4.68	7.12	9.68	13.27	16.41	19.68
Estimated pounds of CO2 equivalent reductions attributable to ZEVs (millions)	N/A	N/A	N/A	N/A	272.65	337.12	404.19

NOTES

¹ Data for 2019, 2020, and 2021 are estimated.

² Data for 2018, 2019, 2020, and 2021 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.