

Maryland Energy Administration

MISSION

The mission of the Maryland Energy Administration (MEA) is to promote affordable, reliable and cleaner energy for the wellbeing 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	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.	2022 Est.
Cumulative change in per capita peak demand (kW/person) compared to the 2007 baseline (2.556 kW/person)	-0.1688	-0.3467	-0.3367	-0.4167	-0.4050	-0.3835	-0.3835
Cumulative percent change in per capita peak demand compared to the 2007 baseline (2.556 kW/person)	-6.60%	-13.56%	-13.17%	-16.30%	-15.85%	-15.00%	-15.00%
Cumulative change in per capita electricity consumption compared to the 2007 baseline (12.3773 MWH)	-1.63	-1.85	-1.70	-1.89	-1.95	-1.80	-1.80
Cumulative percent change in per capita electricity consumption compared to the 2007 baseline (12.3773 MWH)	-13.17%	-14.95%	-13.73%	-15.25%	-15.75%	-14.54%	-14.54%
Avoided electricity costs (\$ millions)	1,079	1,224	1,128	1,255	1,296	1,193	1,193

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

Performance Measures	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Act.	2021 Est.	2022 Est.
Annual energy savings (million British Thermal Units-MMBTU) from energy efficiency grant programs that benefit low-to-moderate income Maryland residents	42,710	35,761	14,618	17,880	15,800	17,703	18,287
Annual energy savings (MMBTU) from all other energy efficiency grant programs	234,792	312,751	168,843	139,531	259,815	233,580	260,600

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	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Act.	2021 Est.	2022 Est.
¹ Annual energy savings from Jane Lawton projects (\$)	160,803	12,950	197,760	378,156	217,229	177,307	177,307
¹ Annual energy savings (MMBTUs)	22,731	348	8,104	6,549	4,865	6,527	6,527

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

Obj. 3.1 In support of the State's Renewable Portfolio Standard (RPS), increase the in-state generation of clean, renewable energy by six million megawatt-hours (MWH) by 2020 through grants, tax credits, education, and outreach.

Performance Measures	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.	2022 Est.
Megawatt hours (MWh) of commercial-scale renewable energy generated in-state (millions)	3.195	3.877	4.887	4.169	4.192	4.318	4.519
Megawatt hours (MWh) of residential and small commercial renewable energy generated in-state	296,938	462,948	506,432	581,164	593,162	641,162	713,162

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

Performance Measures	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Act.	2021 Est.	2022 Est.
Number of awards issued to Maryland residents, businesses, and local governments to incentivize in-state renewable energy	2,939	2,519	2,702	3,045	2,913	2,800	2,200
Solar photovoltaic technology incentivized (kW)	14,919	17,595	26,847	38,555	32,645	30,000	28,000
Tons of geothermal/ground source heat pump capacity installed in Maryland incentivized by MEA programs	2,451	1,783	601	909	1,171	900	750
Biomass (wood and pellet) stove capacity installed in Maryland incentivized by MEA programs (millions BTU/hr)	35.300	23.160	21.733	19.300	15.190	13.000	11.000
Wind capacity installed incentivized by MEA programs (kW)	9	0	0	0	0	0	0
Solar thermal capacity incentivized by MEA programs (in square feet)	3,882	3,990	2,686	141	51	0	0

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

Obj. 4.1 Achieve 60,000 electric vehicle registrations by 2020 through incentives, marketing, and education.

Performance Measures	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Act.	2021 Est.	2022 Est.
Total number of Electric Vehicles (EV) registered in state	6,788	9,369	13,207	20,722	25,742	31,129	36,514
Total number of Hybrids registered in state	82,598	87,415	91,267	96,334	100,452	104,401	108,375
Public electric vehicle charging outlets	922	1,134	1,325	1,864	2,207	2,350	2,600
Gallons of petroleum displacement (millions) attributable to EVs	2.57	3.55	4.68	7.12	9.68	11.70	13.73

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.