Maryland Energy Administration

MISSION

The mission of the Maryland Energy Administration 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	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Est.	2020 Est.	2021 Est.
Cumulative change in per capita peak demand (kW/person) compared to the 2007 baseline (0.0026 MW/person)	-0.1925	-0.1688	-0.3467	-0.3367	-0.3367	-0.3367	-0.3367
Cumulative percent change in per capita peak demand compared to the 2007 baseline (0.0026 MW/person)	-7.53%	-6.60%	-13.56%	-13.17%	-13.17%	-13.17%	-13.17%
Cumulative change in per capita electricity consumption compared to the 2007 baseline (12.3773 MWH)	-1.41	-1.63	-1.85	-1.70	-1.81	-1.94	-2.07
Cumulative percent change in per capita electricity consumption compared to the 2007 baseline (12.3773 MWH)	-11.43%	-13.19%	-14.92%	-13.71%	-14.65%	-15.64%	-16.71%
Avoided electricity costs ($ millions)	935	1,079	1,224	1,128	1,213	1,311	1,407

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

Performance Measures	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.
Annual energy savings (million British Thermal Units-MMBTU) from energy efficiency grant programs that benefit low-to-moderate income Maryland residents	32,945	42,710	35,761	10,778	17,880	12,500	23,200
Annual energy savings (MMBTU) from all other energy efficiency grant programs	37,630	234,792	312,751	168,843	139,531	230,000	159,500

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	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.
[1] Annual energy savings from Jane Lawton projects ($)	297,558	160,803	12,950	197,760	378,156	157,690	157,690
[1] Annual energy savings (MMBTUs)	6,193	22,731	348	8,104	6,549	5,420	5,420

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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	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Est.	2020 Est.	2021 Est.
Megawatt hours (MWh) of commercial-scale renewable energy generated in-state (millions)	3.132	3.195	3.877	4.887	3.976	4.004	4.088
Megawatt hours (MWh) of residential and small commercial renewable energy generated in-state	148,655	296,938	462,948	506,432	581,432	690,632	799,832

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

Performance Measures	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.
Number of awards issued to Maryland residents, businesses, and local governments to incentivize in-state renewable energy	3,053	2,939	2,519	2,702	3,045	2,630	3,600
Solar photovoltaic technology incentivized (kW)	19,810	14,919	17,595	26,847	38,555	31,000	38,000
Tons of geothermal/ground source heat pump capacity installed in Maryland incentivized by MEA programs	2,731	2,451	1,783	601	909	730	1,000
Biomass (wood and pellet) stove capacity installed in Maryland incentivized by MEA programs (millions BTU/hr)	49.110	35.300	23.160	21.733	19.300	14.200	14.200
Wind capacity installed incentivized by MEA programs (kW)	0	9	0	0	0	0	0
Solar thermal capacity incentivized by MEA programs (in square feet)	35,190	3,882	3,990	2,686	141	110	150

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	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.
Total number of Electric Vehicles (EV) registered in state	5,464	6,788	9,369	13,207	20,722	32,119	49,785
Total number of Hybrids registered in state	79,513	82,598	87,415	91,267	96,334	101,151	106,208
Public electric vehicle charging outlets	631	922	1,134	1,325	1,864	2,423	3,150
Gallons of petroleum displacement (millions) attributable to EVs	1.79	2.57	3.55	4.68	7.12	9.61	12.97

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.