

# 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	2014 Act.	2015 Act.	2016 Act.	2017 Est.	2018 Est.	2019 Est.	2020 Est.
Cumulative change in per capita peak demand (kW/person) compared to the 2007 baseline (0.0026 MW)	-0.4887	-0.1925	-0.1688	-0.3467	-0.3509	-0.3779	-0.3900
Cumulative percent change in per capita peak demand compared to the 2007 baseline (0.0026 MW)	-19.11%	-7.53%	-6.60%	-13.60%	-13.73%	-14.78%	-15.25%
Cumulative change in per capita electricity consumption compared to the 2007 baseline (12.3773 MWH)	1.46	1.41	1.63	1.85	2.49	2.61	2.70
Cumulative percent change in per capita electricity consumption compared to the 2007 baseline (12.3773 MWH)	-11.82%	-11.43%	-13.19%	-14.92%	-20.16%	-21.06%	-21.78%
Avoided electricity costs (\$ millions)	962	935	1,079	1,230	1,669	1,752	1,821

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

Performance Measures	2014 Act.	2015 Act.	2016 Act.	2017 Act.	2018 Est.	2019 Est.	2020 Est.
Annual energy savings (million British Thermal Units-MMBTU) from energy efficiency grant programs that benefit low-to-moderate income Maryland residents	N/A	32,945	35,069	36,084	10,778	10,778	7,545
Annual energy savings (MMBTU) from all other energy efficiency grant programs	N/A	37,630	234,792	312,751	168,843	430,000	530,000

### Goal 2. State agencies will reduce energy consumption.

#### Obj. 2.1 Fund projects through the State Agency Loan Program (SALP) that will provide at least \$92,300 of savings in energy-related expenditures each year, over the life of the project.

Performance Measures	2014 Act.	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Est.	2020 Est.
Annual savings from SALP projects (\$)	167,913	74,536	301,987	178,949	63,989	92,300	92,300
Annual energy savings (MMBTUs)	8,434	3,774	10,916	7,469	2,659	2,860	2,860

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## Goal 3. Local governments, non-profits and businesses will improve their energy efficiency.

**Obj. 3.1** Provide loans through the Jane E. Lawton Conservation Loan Program that will result in \$85,000 in energy cost savings annually, over the life of the project.

Performance Measures	2014 Act.	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Est.	2020 Est.
Annual energy savings from Jane Lawton projects (\$)	49,738	297,558	160,803	12,950	197,760	85,000	85,000
Annual energy savings (MMBTUs)	1,793	6,193	22,731	348	8,104	2,700	2,700

## Goal 4. Increase electricity generation fuel diversity through the increased use of in-state renewable energy.

**Obj. 4.1** 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	2014 Act.	2015 Act.	2016 Act.	2017 Act.	2018 Est.	2019 Est.	2020 Est.
Megawatt hours (MWh) of commercial-scale renewable energy generated in-state (millions)	3.066	3.132	3.195	3.877	3.911	4.247	4.906
Megawatt hours (MWh) of residential and small commercial renewable energy generated in-state	72,563	148,655	296,938	462,948	537,948	612,948	687,948

**Obj. 4.2** Implement energy programs that encourage in-state renewable energy resources.

Performance Measures	2014 Act.	2015 Act.	2016 Act.	2017 Act.	2018 Est.	2019 Est.	2020 Est.
Number of awards issued to Maryland residents, businesses, and local governments to incentivize in-state renewable energy	N/A	3,053	2,993	2,519	2,722	1,721	2,705
Solar photovoltaic technology incentivized (kW)	N/A	19,810	16,079	17,595	28,448	30,800	30,000
Tons of geothermal/ground source heat pump capacity installed in Maryland incentivized by MEA programs	N/A	2,731	2,436	1,783	601	300	550
Biomass (wood and pellet) stove capacity installed in Maryland incentivized by MEA programs (millions BTU/hr.)	N/A	49.110	35.500	23.160	21.733	11.000	11.000
Wind capacity installed incentivized by MEA programs (kW)	N/A	0	9	0	0	0	0
Solar thermal capacity incentivized by MEA programs (in square feet)	N/A	35,190	3,990	3,990	2,686	5,000	5,000

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**Goal 5. Diversify Maryland's transportation network by encouraging the utilization of electric vehicles.**

**Obj. 5.1** Achieve 60,000 electric vehicle registrations by 2020 through incentives, marketing, and education.

<b>Performance Measures</b>	<b>2014 Act.</b>	<b>2015 Act.</b>	<b>2016 Act.</b>	<b>2017 Act.</b>	<b>2018 Act.</b>	<b>2019 Est.</b>	<b>2020 Est.</b>
Total number of Electric Vehicles (EV) registered in state	3,178	5,464	6,788	9,369	13,207	15,788	18,369
Total number of Hybrids registered in state	77,454	79,513	82,598	87,415	91,267	95,275	99,283
Public electric vehicle charging outlets	593	631	922	1,134	1,325	1,795	2,431
Gallons of petroleum displacement (millions) attributable to EVs	1.04	1.79	2.57	3.55	4.68	5.59	6.51