

# 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.
<sup>1</sup> 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
<sup>2</sup> 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.
<sup>3</sup> Annual energy savings from Jane Lawton projects (\$)	12,950	197,760	278,524	217,229	175,530	197,471	246,838
<sup>3</sup> 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.

<b>Performance Measures</b>	<b>2017 Act.</b>	<b>2018 Act.</b>	<b>2019 Act.</b>	<b>2020 Act.</b>	<b>2021 Act.</b>	<b>2022 Est.</b>	<b>2023 Est.</b>
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

<sup>1</sup> Data for 2019, 2020, and 2021 are estimated.

<sup>2</sup> Data for 2018, 2019, 2020, and 2021 are estimated.

<sup>3</sup> 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.

# Maryland Energy Administration

## Summary of Maryland Energy Administration

	<b>2021 Actual</b>	<b>2022 Appropriation</b>	<b>2023 Allowance</b>
Number of Authorized Positions	30.00	30.00	31.00
Number of Contractual Positions	11.00	11.00	10.00
Salaries, Wages and Fringe Benefits	3,953,653	3,829,445	4,173,139
Technical and Special Fees	551,642	593,135	693,298
Operating Expenses	30,060,707	89,580,216	69,657,949
Special Fund Expenditure	33,285,184	92,682,740	73,178,296
Federal Fund Expenditure	1,126,470	1,156,177	1,180,051
Reimbursable Fund Expenditure	154,348	163,879	166,039
Total Expenditure	<u>34,566,002</u>	<u>94,002,796</u>	<u>74,524,386</u>

# Maryland Energy Administration

## D13A13.01 General Administration

### Program Description

The Maryland Energy Administration (MEA) advises the Governor on issues, policies and changes in the various segments of the energy market. MEA prepares the State to respond to changing dynamics of the energy industry. This program provides administrative support for MEA programs, including review of utility electricity efficiency and demand reduction programs.

Appropriation Statement	2021 Actual	2022 Appropriation	2023 Allowance
Number of Authorized Positions	30.00	30.00	31.00
Number of Contractual Positions	11.00	11.00	10.00
01 Salaries, Wages and Fringe Benefits	3,953,653	3,829,445	4,173,139
02 Technical and Special Fees	551,642	593,135	693,298
03 Communications	28,629	46,900	31,900
04 Travel	5,114	116,426	106,370
07 Motor Vehicle Operation and Maintenance	477	1,880	1,880
08 Contractual Services	781,630	1,352,755	756,289
09 Supplies and Materials	2,710	5,000	5,000
10 Equipment - Replacement	19,104	30,555	28,750
11 Equipment - Additional	3,956	8,500	7,000
12 Grants, Subsidies, and Contributions	35,061	45,000	45,000
13 Fixed Charges	276,679	327,068	345,914
Total Operating Expenses	1,153,360	1,934,084	1,328,103
Total Expenditure	5,658,655	6,356,664	6,194,540
Special Fund Expenditure	4,479,650	5,036,608	4,848,450
Federal Fund Expenditure	1,024,657	1,156,177	1,180,051
Reimbursable Fund Expenditure	154,348	163,879	166,039
Total Expenditure	5,658,655	6,356,664	6,194,540
<b>Special Fund Expenditure</b>			
D13301 The Jane E. Lawton Conservation Loan Program	20,215	20,189	20,000
SWF316 Strategic Energy Investment Fund - RGGI	4,246,742	4,804,026	4,828,450
SWF330 Strategic Energy Investment Fund - Other	212,693	212,393	0
Total	4,479,650	5,036,608	4,848,450
<b>Federal Fund Expenditure</b>			
81.041 State Energy Program	955,079	1,082,606	1,099,890
81.086 Conservation Research and Development	58,698	63,424	70,010
81.090 State Heating Oil and Propane Program	10,880	10,147	10,151
Total	1,024,657	1,156,177	1,180,051
<b>Reimbursable Fund Expenditure</b>			
K00A01 Department of Natural Resources	154,348	163,879	166,039
Total	154,348	163,879	166,039

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## D13A13.02 The Jane E. Lawton Conservation Loan Program

### Program Description

The Jane E. Lawton Conservation Loan Program is a self-sustaining program which provides financial assistance in the form of loans to schools, businesses, state agencies, local governments, and non-profit organizations. Loans made through these programs are for the purpose of making energy conservation improvements.

### Appropriation Statement

	<b>2021 Actual</b>	<b>2022 Appropriation</b>	<b>2023 Allowance</b>
14 Land and Structures	1,600,000	2,200,000	1,750,000
Total Operating Expenses	1,600,000	2,200,000	1,750,000
Total Expenditure	1,600,000	2,200,000	1,750,000
Special Fund Expenditure	1,600,000	2,200,000	1,750,000
Total Expenditure	1,600,000	2,200,000	1,750,000
<b>Special Fund Expenditure</b>			
D13301 The Jane E. Lawton Conservation Loan Program	1,600,000	2,200,000	1,750,000
Total	1,600,000	2,200,000	1,750,000

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## D13A13.06 Energy Efficiency and Conservation Programs, Low and Moderate Income Residential Sector

### Program Description

Funding in this program is used for energy efficiency and conservation programs, projects, or activities, and demand response programs targeted to the low income residential sector at no cost to the participants and the moderate income residential sector with minimal cost to the participants.

<b>Appropriation Statement</b>		<b>2021 Actual</b>	<b>2022 Appropriation</b>	<b>2023 Allowance</b>
08	Contractual Services	199,988	250,000	700,000
12	Grants, Subsidies, and Contributions	6,500,000	14,500,000	16,300,000
	Total Operating Expenses	<u>6,699,988</u>	<u>14,750,000</u>	<u>17,000,000</u>
	Total Expenditure	<u><u>6,699,988</u></u>	<u><u>14,750,000</u></u>	<u><u>17,000,000</u></u>
	Special Fund Expenditure	<u>6,699,988</u>	<u>14,750,000</u>	<u>17,000,000</u>
	Total Expenditure	<u><u>6,699,988</u></u>	<u><u>14,750,000</u></u>	<u><u>17,000,000</u></u>
<b>Special Fund Expenditure</b>				
SWF316	Strategic Energy Investment Fund - RGGI	<u>6,699,988</u>	<u>14,750,000</u>	<u>17,000,000</u>
	Total	<u><u>6,699,988</u></u>	<u><u>14,750,000</u></u>	<u><u>17,000,000</u></u>

# Maryland Energy Administration

## D13A13.07 Energy Efficiency and Conservation Programs, All Other Sectors

### Program Description

Funding in this program is used for energy efficiency and conservation programs, projects, or activities, and demand response programs.

<b>Appropriation Statement</b>		<b>2021 Actual</b>	<b>2022 Appropriation</b>	<b>2023 Allowance</b>
08	Contractual Services	25,000	300,000	500,000
12	Grants, Subsidies, and Contributions	3,992,527	11,500,000	7,975,000
	Total Operating Expenses	<u>4,017,527</u>	<u>11,800,000</u>	<u>8,475,000</u>
	Total Expenditure	<u>4,017,527</u>	<u>11,800,000</u>	<u>8,475,000</u>
	Special Fund Expenditure	3,915,714	11,800,000	8,475,000
	Federal Fund Expenditure	<u>101,813</u>	<u>0</u>	<u>0</u>
	Total Expenditure	<u>4,017,527</u>	<u>11,800,000</u>	<u>8,475,000</u>
<b>Special Fund Expenditure</b>				
SWF316	Strategic Energy Investment Fund - RGGI	3,915,714	8,800,000	8,475,000
SWF330	Strategic Energy Investment Fund - Other	<u>0</u>	<u>3,000,000</u>	<u>0</u>
	Total	<u>3,915,714</u>	<u>11,800,000</u>	<u>8,475,000</u>
<b>Federal Fund Expenditure</b>				
81.119	State Energy Program Special Projects	<u>101,813</u>	<u>0</u>	<u>0</u>
	Total	<u>101,813</u>	<u>0</u>	<u>0</u>



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## D13A13.08 Renewable and Clean Energy Programs and Initiatives

### Program Description

Funding in the program is used for renewable and clean energy initiatives, energy-related public education and outreach, and climate change programs.

<b>Appropriation Statement</b>		<b>2021 Actual</b>	<b>2022 Appropriation</b>	<b>2023 Allowance</b>
04	Travel	3,223	0	0
08	Contractual Services	515,883	4,075,000	5,450,000
12	Grants, Subsidies, and Contributions	16,070,726	54,821,132	35,654,846
	Total Operating Expenses	<u>16,589,832</u>	<u>58,896,132</u>	<u>41,104,846</u>
	Total Expenditure	<u>16,589,832</u>	<u>58,896,132</u>	<u>41,104,846</u>
	Special Fund Expenditure	<u>16,589,832</u>	<u>58,896,132</u>	<u>41,104,846</u>
	Total Expenditure	<u>16,589,832</u>	<u>58,896,132</u>	<u>41,104,846</u>
<b>Special Fund Expenditure</b>				
D13349	Offshore Wind Business Development Fund	1,425,000	3,100,000	2,500,000
SWF316	Strategic Energy Investment Fund - RGGI	5,496,755	21,415,000	19,400,000
SWF330	Strategic Energy Investment Fund - Other	9,668,077	34,381,132	19,204,846
	Total	<u>16,589,832</u>	<u>58,896,132</u>	<u>41,104,846</u>

### 3 Year Position Summary

Classification Title	FY 2021 Positions	FY 2021 Expenditures	FY 2022 Positions	FY 2022 Appropriation	FY 2023 Positions	FY 2023 Allowance
<b>D13 - Maryland Energy Administration</b>						
<b>D13A1301 - General Administration</b>						
Administrator I	1.00	64,985	1.00	65,636	1.00	70,826
Administrator II	4.00	200,059	3.00	196,932	4.00	267,166
Administrator III	4.00	270,248	4.00	271,677	4.00	271,677
Administrator IV	5.00	482,300	6.00	493,124	5.00	405,794
Administrator V	4.00	380,002	4.00	383,813	4.00	380,139
Administrator VI	1.00	100,794	1.00	101,805	1.00	101,805
Asst Attorney General VI	3.00	292,956	3.00	295,894	3.00	295,894
Asst Attorney General VIII	1.00	122,519	1.00	126,137	1.00	126,137
Exec Aide III	2.00	207,246	2.00	209,324	3.00	306,685
Exec Aide V	4.00	459,890	4.00	482,272	4.00	502,561
Exec Aide VIII	1.00	152,287	1.00	153,046	1.00	153,046
<b>Total D13A1301</b>	<b>30.00</b>	<b>2,733,286</b>	<b>30.00</b>	<b>2,779,660</b>	<b>31.00</b>	<b>2,881,730</b>