

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.

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Summary of Maryland Energy Administration

	2020 Actual	2021 Appropriation	2022 Allowance
Number of Authorized Positions	28.00	30.00	30.00
Number of Contractual Positions	9.00	11.00	9.00
Salaries, Wages and Fringe Benefits	3,540,605	3,585,765	3,762,390
Technical and Special Fees	576,936	662,287	593,135
Operating Expenses	35,931,065	45,504,045	61,015,216
Special Fund Expenditure	35,678,471	48,552,883	64,070,396
Federal Fund Expenditure	4,217,806	1,047,873	1,139,306
Reimbursable Fund Expenditure	152,329	151,341	161,039
Total Expenditure	<u>40,048,606</u>	<u>49,752,097</u>	<u>65,370,741</u>

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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	2020 Actual	2021 Appropriation	2022 Allowance
Number of Authorized Positions	28.00	30.00	30.00
Number of Contractual Positions	9.00	11.00	9.00
01 Salaries, Wages and Fringe Benefits	3,540,605	3,585,765	3,762,390
02 Technical and Special Fees	576,936	662,287	593,135
03 Communications	26,990	44,336	46,900
04 Travel	97,928	223,190	116,426
07 Motor Vehicle Operation and Maintenance	1,684	2,406	1,880
08 Contractual Services	715,112	1,155,772	1,352,755
09 Supplies and Materials	23,863	15,000	5,000
10 Equipment - Replacement	0	10,050	30,555
11 Equipment - Additional	2,385	8,500	8,500
12 Grants, Subsidies, and Contributions	32,727	45,000	45,000
13 Fixed Charges	541,589	322,041	327,068
Total Operating Expenses	1,442,278	1,826,295	1,934,084
Total Expenditure	5,559,819	6,074,347	6,289,609
Special Fund Expenditure	4,446,200	4,933,162	4,989,264
Federal Fund Expenditure	961,290	989,844	1,139,306
Reimbursable Fund Expenditure	152,329	151,341	161,039
Total Expenditure	5,559,819	6,074,347	6,289,609
Special Fund Expenditure			
D13301 The Jane E. Lawton Conservation Loan Program	18,543	20,000	20,000
D13302 Energy Overcharge Restitution Trust Fund (EORTF)	0	225,001	0
SWF316 Strategic Energy Investment Fund - RGGI	4,285,332	4,477,760	4,758,864
SWF330 Strategic Energy Investment Fund - Other	142,325	210,401	210,400
Total	4,446,200	4,933,162	4,989,264
Federal Fund Expenditure			
81.041 State Energy Program	925,121	935,765	1,066,806
81.086 Conservation Research and Development	26,169	43,277	62,500
81.090 State Heating Oil and Propane Program	10,000	10,802	10,000
Total	961,290	989,844	1,139,306
Reimbursable Fund Expenditure			
K00A01 Department of Natural Resources	151,632	151,341	161,039
M00F06 MDH - Office of Preparedness and Response	697	0	0
Total	152,329	151,341	161,039

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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	2020 Actual	2021 Appropriation	2022 Allowance
14 Land and Structures	1,528,053	2,050,000	2,200,000
Total Operating Expenses	<u>1,528,053</u>	<u>2,050,000</u>	<u>2,200,000</u>
Total Expenditure	<u><u>1,528,053</u></u>	<u><u>2,050,000</u></u>	<u><u>2,200,000</u></u>
Special Fund Expenditure	<u>1,528,053</u>	<u>2,050,000</u>	<u>2,200,000</u>
Total Expenditure	<u><u>1,528,053</u></u>	<u><u>2,050,000</u></u>	<u><u>2,200,000</u></u>
Special Fund Expenditure			
D13301 The Jane E. Lawton Conservation Loan Program	<u>1,528,053</u>	<u>2,050,000</u>	<u>2,200,000</u>
Total	<u><u>1,528,053</u></u>	<u><u>2,050,000</u></u>	<u><u>2,200,000</u></u>

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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.

Appropriation Statement	2020 Actual	2021 Appropriation	2022 Allowance
08 Contractual Services	196,692	200,000	250,000
12 Grants, Subsidies, and Contributions	5,803,308	6,500,000	6,450,000
Total Operating Expenses	<u>6,000,000</u>	<u>6,700,000</u>	<u>6,700,000</u>
Total Expenditure	<u><u>6,000,000</u></u>	<u><u>6,700,000</u></u>	<u><u>6,700,000</u></u>
Special Fund Expenditure	<u>6,000,000</u>	<u>6,700,000</u>	<u>6,700,000</u>
Total Expenditure	<u><u>6,000,000</u></u>	<u><u>6,700,000</u></u>	<u><u>6,700,000</u></u>
Special Fund Expenditure			
SWF316 Strategic Energy Investment Fund - RGGI	<u>6,000,000</u>	<u>6,700,000</u>	<u>6,700,000</u>
Total	<u><u>6,000,000</u></u>	<u><u>6,700,000</u></u>	<u><u>6,700,000</u></u>

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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.

Appropriation Statement	2020 Actual	2021 Appropriation	2022 Allowance
08 Contractual Services	111,100	180,000	300,000
12 Grants, Subsidies, and Contributions	7,064,826	4,878,029	7,200,000
Total Operating Expenses	<u>7,175,926</u>	<u>5,058,029</u>	<u>7,500,000</u>
Total Expenditure	<u><u>7,175,926</u></u>	<u><u>5,058,029</u></u>	<u><u>7,500,000</u></u>
Special Fund Expenditure	3,919,410	5,000,000	7,500,000
Federal Fund Expenditure	3,256,516	58,029	0
Total Expenditure	<u><u>7,175,926</u></u>	<u><u>5,058,029</u></u>	<u><u>7,500,000</u></u>
Special Fund Expenditure			
SWF316 Strategic Energy Investment Fund - RGGI	3,121,373	5,000,000	4,500,000
SWF330 Strategic Energy Investment Fund - Other	798,037	0	3,000,000
Total	<u>3,919,410</u>	<u>5,000,000</u>	<u>7,500,000</u>
Federal Fund Expenditure			
81.041 State Energy Program	3,062,400	0	0
81.119 State Energy Program Special Projects	194,116	58,029	0
Total	<u>3,256,516</u>	<u>58,029</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.

Appropriation Statement	2020 Actual	2021 Appropriation	2022 Allowance
04 Travel	949	0	0
08 Contractual Services	914,577	1,335,000	600,000
09 Supplies and Materials	1,441	0	0
12 Grants, Subsidies, and Contributions	18,867,841	28,534,721	42,081,132
Total Operating Expenses	<u>19,784,808</u>	<u>29,869,721</u>	<u>42,681,132</u>
Total Expenditure	<u><u>19,784,808</u></u>	<u><u>29,869,721</u></u>	<u><u>42,681,132</u></u>
Special Fund Expenditure	<u>19,784,808</u>	<u>29,869,721</u>	<u>42,681,132</u>
Total Expenditure	<u><u>19,784,808</u></u>	<u><u>29,869,721</u></u>	<u><u>42,681,132</u></u>
Special Fund Expenditure			
D13349 Offshore Wind Business Development Fund	3,000,000	3,750,000	3,100,000
SWF316 Strategic Energy Investment Fund - RGGI	4,790,805	9,050,000	5,200,000
SWF330 Strategic Energy Investment Fund - Other	11,994,003	17,069,721	34,381,132
Total	<u>19,784,808</u>	<u>29,869,721</u>	<u>42,681,132</u>

3 Year Position Summary

Classification Title	FY 2020 Positions	FY 2020 Expenditures	FY 2021 Positions	FY 2021 Appropriation	FY 2022 Positions	FY 2022 Allowance
D13 - Maryland Energy Administration						
D13A1301 - General Administration						
Admin Officer III	1.00	57,185	0.00	0	0.00	0
Administrator I	0.00	0	1.00	64,349	1.00	64,349
Administrator II	2.00	170,418	4.00	247,604	3.00	193,069
Administrator III	5.00	274,189	4.00	269,036	4.00	266,347
Administrator IV	3.00	136,030	5.00	406,699	6.00	483,453
Administrator V	5.00	420,124	5.00	469,841	4.00	376,284
Administrator VI	0.00	0	0.00	0	1.00	99,808
Asst Attorney General VI	3.00	275,073	3.00	290,090	3.00	290,090
Asst Attorney General VIII	1.00	115,041	1.00	121,321	1.00	123,663
Exec Aide I	1.00	88,714	0.00	0	0.00	0
Exec Aide III	1.00	111,617	2.00	205,218	2.00	205,218
Exec Aide V	4.00	405,565	4.00	475,155	4.00	472,813
Exec Aide VIII	1.00	142,992	1.00	150,045	1.00	150,045
Spec Asst III Exec Dept	1.00	67,961	0.00	0	0.00	0
Total D13A1301	28.00	2,264,909	30.00	2,699,358	30.00	2,725,139