

Maryland Energy Administration

MISSION

The mission of the Maryland Energy Administration (MEA) is to promote clean, affordable, reliable energy and energy-related greenhouse gas emission reductions to benefit Marylanders in a just and equitable manner.

VISION

The Maryland Energy Administration will advance impactful energy policies and programs to help achieve Maryland's clean energy and greenhouse gas reduction goals.

KEY GOALS, OBJECTIVES, AND PERFORMANCE MEASURES

Goal 1. Increase Maryland's energy efficiency and energy conservation.

Obj. 1.1 Implement energy efficiency grant programs to help Maryland residents reduce energy usage and lower energy bills.

| Performance Measures | 2020 Act. | 2021 Act. | 2022 Act. | 2023 Act. | 2024 Est. | 2025 Est. | 2026 Est. |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Annual energy savings (million British Thermal Units-MMBTU) from energy efficiency grant programs that benefit low-to-moderate income Maryland residents | 5,753 | 19,238 | 42,987 | 58,331 | 20,916 | 17,616 | 17,616 |
| Dollars awarded for energy efficiency grant programs that benefit low-to-moderate income Maryland residents (\$ millions) | N/A | N/A | \$ 14.34 | \$ 19.37 | \$ 19.37 | \$ 11.20 | \$ 11.20 |
| Annual energy savings (MMBTU) from all other energy efficiency grant programs | 259,815 | 300,687 | 70,145 | 50,865 | 101,729 | 63,233 | 63,233 |
| Dollars awarded for all other energy efficiency grant programs (\$ millions) | N/A | N/A | \$ 6.21 | \$ 3.22 | \$ 28.30 | \$ 13.25 | \$ 13.25 |
| Anticipated CO2 equivalent (metric tons) avoided per year from energy efficiency programs that benefit low-to-moderate income Maryland residents | N/A | N/A | N/A | 4,008 | 3,971 | 2,307 | 2,307 |
| Anticipated CO2 equivalent (metric tons) avoided per year from all other energy efficiency programs | N/A | N/A | N/A | 3,949 | 5,160 | 9,333 | 9,333 |

Obj. 1.2 Provide loans through the Lawton Program for cost effective projects that will result in energy savings and greenhouse gas emission reductions.

| Performance Measures | 2020 Act. | 2021 Act. | 2022 Act. | 2023 Act. | 2024 Act. | 2025 Est. | 2026 Est. |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Annual energy savings (MMBTUs) | 4,865 | 2,365 | 27,649 | 6,100 | 5,551 | 5,474 | 5,474 |
| Anticipated CO2 equivalent (metric tons) avoided per year from Jane Lawton projects | N/A | N/A | N/A | 553 | 551 | 688 | 688 |

Maryland Energy Administration

Goal 2. Help Maryland achieve the goal of 100% clean energy by 2035

Obj. 2.1 Support Maryland's goal to generate 100% clean energy through grants, tax credits, and outreach.

| Performance Measures (Calendar Year) | 2020 Act. | 2021 Act. | 2022 Act. | 2023 Act. | 2024 Est. | 2025 Est. | 2026 Est. |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total in-state renewable energy generation (thousand megawatt hours) | 4,101 | 4,666 | 4,429 | 4,761 | 5,391 | 5,896 | 6,877 |
| In-state Renewable Energy Generation by Type | | | | | | | |
| Solar | 1,521 | 1,657 | 1,863 | 2,175 | 2,687 | 3,192 | 4,173 |
| Utility-Scale Solar | 527 | 632 | 762 | 992 | 1,162 | 1,535 | 2,392 |
| Small-Scale PV | 994 | 1,025 | 1,101 | 1,183 | 1,525 | 1,657 | 1,781 |
| Geothermal | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hydro | 1,697 | 2,117 | 1,772 | 1,770 | 1,863 | 1,863 | 1,863 |
| Wind | 546 | 517 | 498 | 520 | 511 | 511 | 511 |
| Other | 337 | 375 | 296 | 296 | 330 | 330 | 330 |
| Other Sources of Maryland electricity generation by Type | | | | | | | |
| Coal | 3,360 | 5,174 | 4,639 | 4,639 | 1,380 | 1,051 | 1,051 |
| Petroleum | 70 | 73 | 140 | 140 | 63 | 63 | 63 |
| Natural Gas | 14,092 | 13,977 | 14,084 | 14,000 | 14,425 | 14,574 | 14,574 |
| Nuclear | 15,081 | 14,994 | 14,811 | 14,900 | 14,900 | 14,900 | 14,900 |
| Other non-renewable | 320 | 376 | 294 | 300 | 300 | 300 | 300 |

Maryland Energy Administration

Obj. 2.2 Implement energy programs that encourage in-state renewable energy resources.

| Performance Measures | 2020 Act. | 2021 Act. | 2022 Act. | 2023 Act. | 2024 Act. | 2025 Est. | 2026 Est. |
|---|-----------|------------|------------|------------|------------|--------------|--------------|
| Number of awards issued to Maryland residents, businesses, and local governments to incentivize in-state renewable energy | 2,913 | 2,831 | 4,392 | 5,473 | 7,495 | 9,456 | 9,456 |
| Solar photovoltaic technology incentivized (kW) | 32,645 | 44,019 | 67,026 | 131,424 | 91,255 | 285,797 | 285,797 |
| Dollars awarded for solar photovoltaic technology (\$ millions) | N/A | N/A | \$ 11.23 | \$ 21.40 | \$ 24.53 | \$ 54.70 | \$ 54.70 |
| Tons of geothermal/ground source heat pump capacity installed in Maryland incentivized by MEA programs | 1,171 | 879 | 787 | 920 | 898 | 2,919 | 2,919 |
| Dollars awarded for geothermal heat pumps (\$) | N/A | N/A | \$ 491,000 | \$ 578,500 | \$ 537,000 | \$ 1,800,000 | \$ 1,800,000 |
| Biomass (wood and pellet) stove capacity installed in Maryland incentivized by MEA programs (millions BTU/hr) | 15.190 | 8.218 | 10.773 | 9.020 | 5.220 | N/A | N/A |
| Dollars awarded for biomass stoves (\$) | N/A | N/A | \$ 156,400 | \$ 129,100 | \$ 76,900 | N/A | N/A |
| Anticipated CO2 equivalent (metric tons) avoided per year for awards for in-state renewable energy projects incentivized by MEA energy programs | N/A | N/A | N/A | 52,769 | 73,292 | 155,773 | 155,773 |
| Number of battery storage projects incentivized | N/A | 164 | 155 | 0 | 0 | 0 | 0 |
| Financial incentives for battery storage projects (\$) | N/A | \$ 750,000 | \$ 750,000 | 0 | 0 | 0 | 0 |

Goal 3. Diversify Maryland's transportation network by encouraging the utilization of zero emission vehicles.

Obj. 3.1 Assist the State in achieving 300,000 zero emission vehicle registrations by 2025 through incentives, marketing, and education.

| Performance Measures | 2020 Act. | 2021 Act. | 2022 Act. | 2023 Act. | 2024 Act. | 2025 Est. | 2026 Est. |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total Zero Emission Vehicles (ZEV) registered in Maryland | 25,742 | 34,841 | 51,604 | 75,861 | 103,400 | 146,652 | 146,652 |
| Number of fleet ZEVs incentivized by MEA | N/A | N/A | 33 | 37 | 56 | 60 | 60 |
| Dollars awarded for fleet ZEVs (\$ millions) | N/A | N/A | \$ 3.08 | \$ 3.21 | \$ 8.60 | \$ 10.00 | \$ 10.00 |
| Total public electric vehicle charging ports in Maryland | 2,207 | 2,769 | 3,390 | 4,340 | 5,370 | 6,000 | 6,000 |
| Electric vehicle charging stations incentivized by MEA | 1,135 | 1,949 | 2,004 | 1,897 | 2,887 | 3,497 | 3,497 |
| Funding provided for EV charging stations incentivized by MEA (\$ millions) | N/A | N/A | \$ 1.80 | \$ 1.80 | \$ 2.50 | \$ 13.50 | \$ 13.50 |
| Hydrogen fueling stations in Maryland | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gallons of petroleum displacement attributable to ZEVs (millions) | 9.68 | 13.27 | 20.02 | 30.12 | 41.30 | 48.00 | 48.00 |
| Estimated pounds of CO2 equivalent reductions attributable to ZEVs (millions) | N/A | 273 | 388 | 713 | 1,293 | 1,500 | 1,500 |