

Presented by:

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Maryland's Climate Pollution Reduction Plan

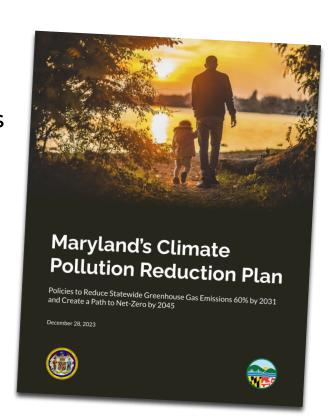


What is the Climate Pollution Reduction Plan?

MDE's final plan to:

- Reduce statewide greenhouse gas emissions
 60% by 2031 (from 2006 levels)
- Set the state on a path to achieve net-zero emissions by 2045
- Create net economic benefits for Maryland

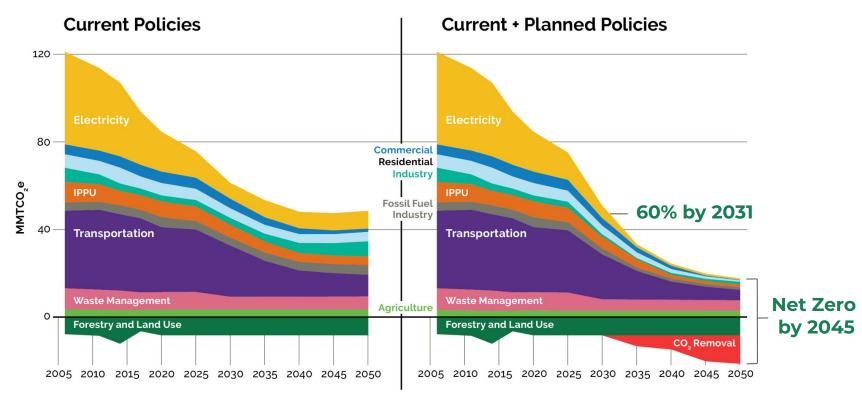
The full plan is available at mde.maryland.gov





Achieving the State's Goals

42 policies that, if fully implemented, will achieve Maryland's goals





Maryland has Already Come so Far



Maryland once had the worst air quality east of the Mississippi River

8 coal-fired power plants in 2006 (2 left today)

Countless cases of respiratory illness and

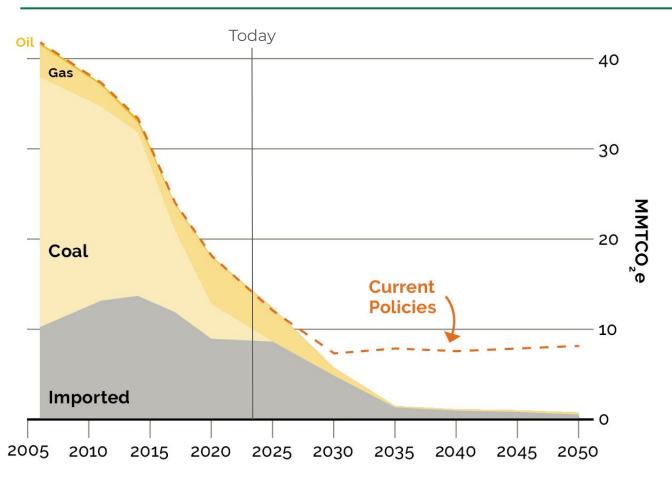


From the Dirtiest Air to the Cleanest

In 2022, Maryland met all national air quality standards for the first time since the Clean Air Act was established over 50 years ago



Greatest Improvements from the Electricity Sector



Emissions from electricity generation plummeted since 2006

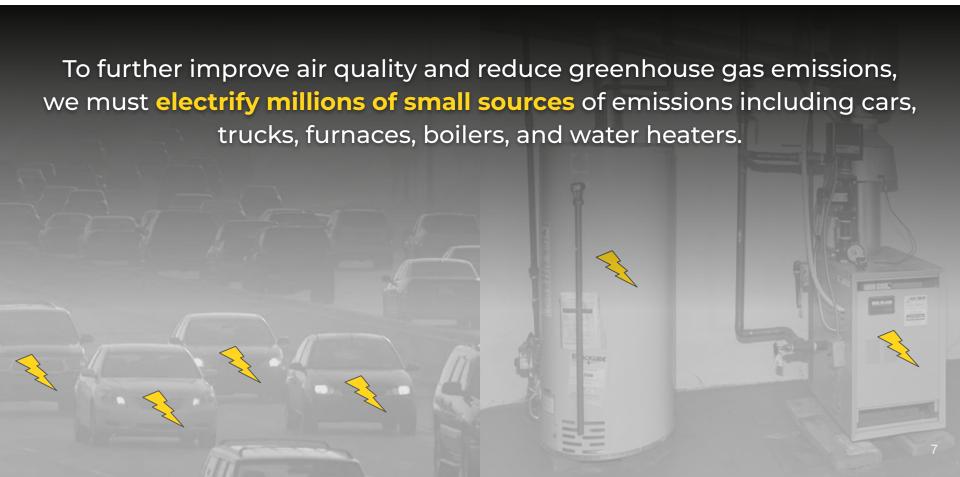
Two-thirds of statewide emissions reductions were from this sector

Current policies will further reduce emissions

New policies will provide 100% clean electricity to all Marylanders by 2035



Shifting Focus from Large to Small Sources





Electrification is Underway



Heat pumps started outselling gas furnaces in the U.S. in 2022

The best-selling car in the U.S. in 2023 was an EV

Electric devices are increasingly powered by clean electricity

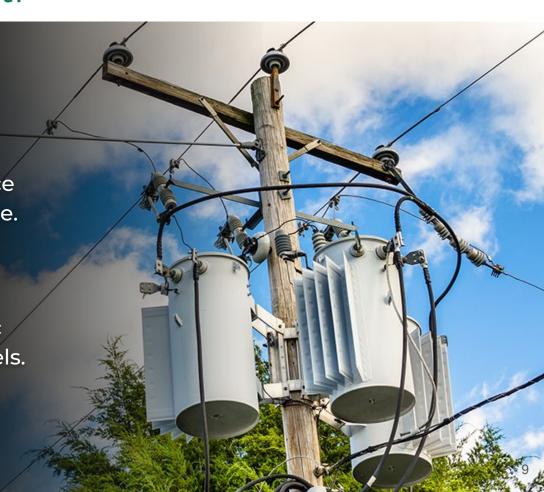


Can the Grid Handle It?

Yes.

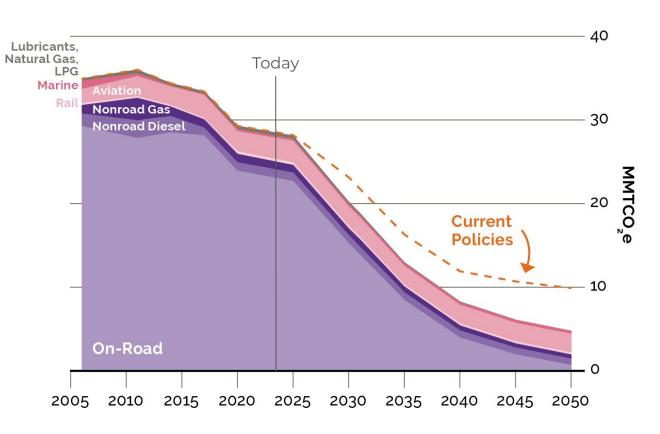
The Climate Solutions Now Act required the Maryland Public Service Commission (PSC) to study this issue.

The PSC study found that efficient electrification of buildings and vehicles will require modest electric grid investments below historic levels.





Transportation Decarbonization is Driven by Electrification

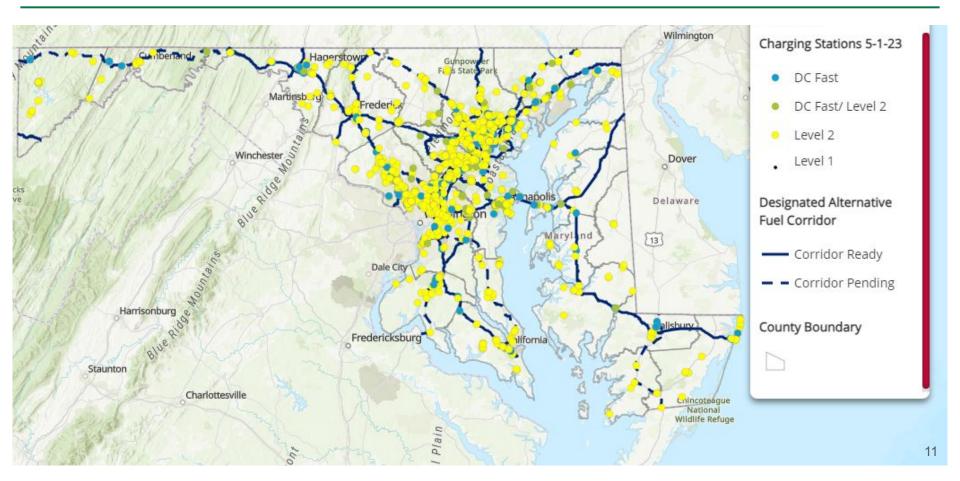


Advanced Clean Cars II and Advanced Clean Trucks guide the transition to zero-emission electric cars and trucks

MDOT's efforts to develop transit projects and reduce vehicle miles traveled (VMT) will further reduce emissions

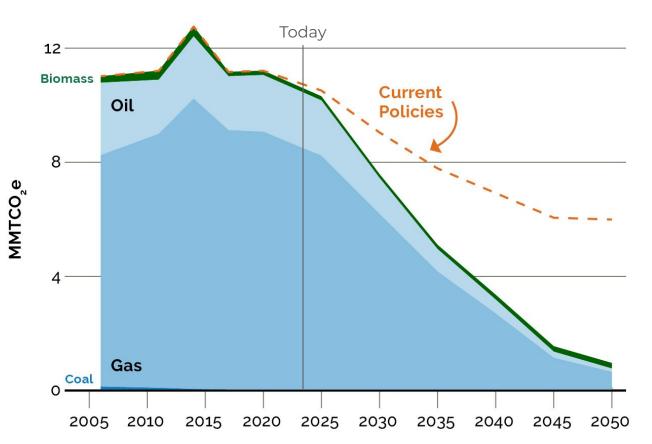


Maryland's EV Charging Network is Poised for Additional Growth





Building Decarbonization is Driven by Electrification

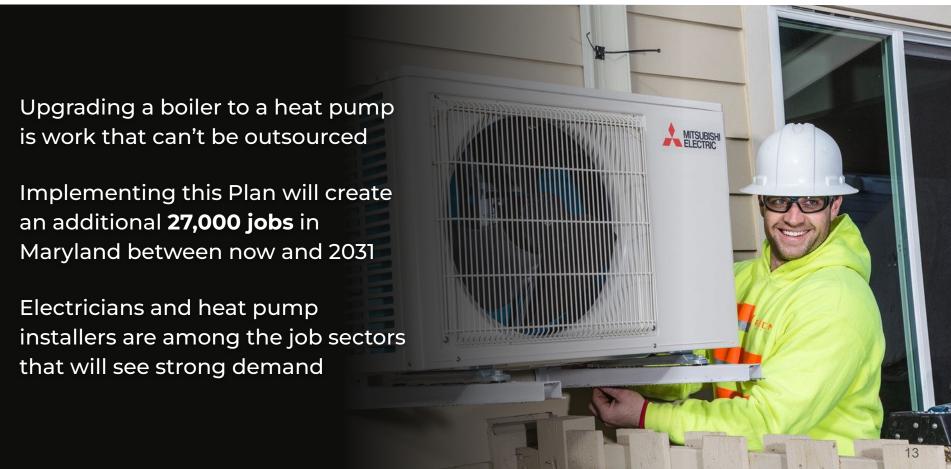


Building Energy
Performance Standards
and federal incentives for
heat pumps reduce
emissions, but not enough

New policies such as
Zero-Emission Heating
Equipment Standards and
Clean Heat Standards will
reduce emissions fast
enough to achieve the
state's goals



Electrification Creates Local Jobs





Lower Energy Costs

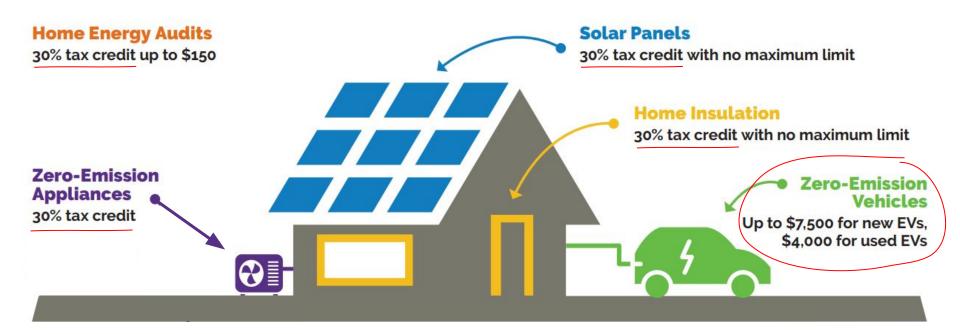


The average Maryland household saves **\$2,600** annually by using heat pumps and EVs instead of gas appliances and gas cars

\$4,000 annually for households that switch from oil or propane to heat pumps and EVs



Take Advantage of Existing Federal Tax Credits





Amping Up Electrification with Rebates

Rebates will be available starting in 2024 for low, moderate, and middle-income households.



\$8,000 rebateHeat pump HVAC



\$4,000 rebate Electric panel upgrade



\$2,500 rebate Electric wiring



\$1,750 rebate Heat pump water heater



\$840 rebateElectric stove or cooktop



\$840 rebate Heat pump clothes dryer

This Plan proposes to keep electrification rebates flowing when federal funding runs out.



Potential Funding Sources

Federal grants and loans

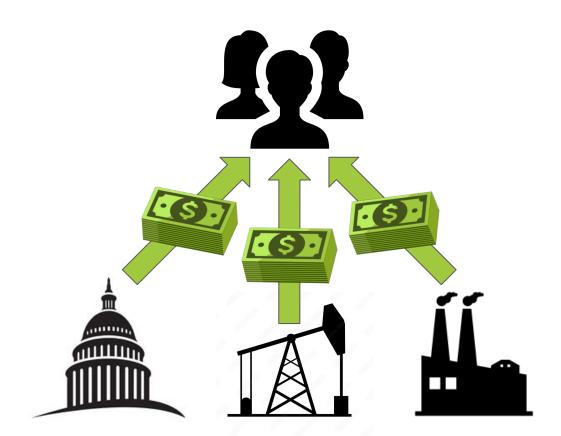
Green revenue bonds

Cap and invest program

Carbon fee

Hazardous substance fee

Fees on fuel-burning vehicles



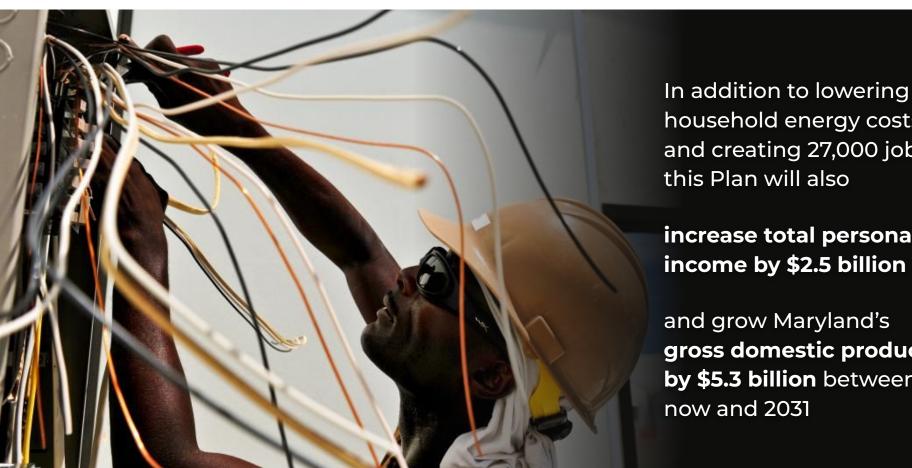
With new funding sources established, the state will provide at least **\$1 billion** annually to incentivize:

- Building electrification
- Transitioning to EVs
- Industrial decarbonization
- Workforce development
- and more





Economic Benefits



household energy costs and creating 27,000 jobs,

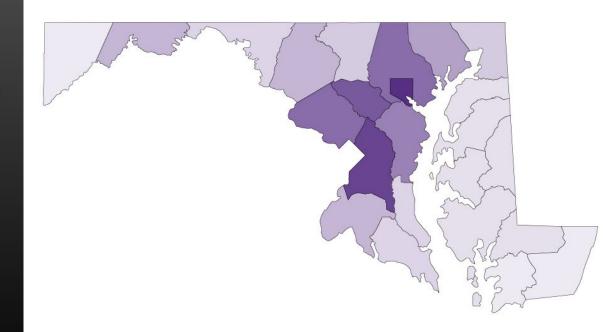
increase total personal income by \$2.5 billion

and grow Maryland's gross domestic product by \$5.3 billion between



This Plan delivers between \$142 million and \$321 million in additional health benefits in 2031 compared to current policies

Most of the health benefits occur in historically disadvantaged communities





Maryland's new policies are modeled to reduce emissions by **646 million metric tons of carbon dioxide equivalent** (MMTCO2e) between now and 2050

The global benefit is estimated to be \$135 billion!





Next Steps

- Maximize federal funding opportunities
- Launch & implement regulatory processes
- Coordinate with the Maryland Commission on Climate Change
- Evaluate funding mechanisms

Please read the full plan at mde.maryland.gov



Questions? Contact Us



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