



Maryland Department of the Environment

Working Toward a GGRA Progress Report

Presentation to the Mitigation Working Group

March 15, 2022



GGRA Progress Report

LEGISLATION

Greenhouse Gas Emissions Reduction Act – Reauthorization of 2016:

The Department shall monitor implementation of the [plan] PLANS required under § 2–1205 of this subtitle and **shall submit a report, on or before October 1, 2022**, and every 5 years thereafter, to the Governor and, in accordance with § 2–1246 of the State Government Article, the General Assembly that describes the State’s progress toward achieving:

- (1) The [reduction] REDUCTIONS in greenhouse gas emissions required under this subtitle, or any revisions conducted in accordance with § 2–1210 of this subtitle; and
- (2) The greenhouse gas emissions reductions needed by 2050 in order to avoid dangerous anthropogenic changes to the Earth’s climate system, based on the predominant view of the scientific community at the time of the latest report.



GGRA Progress Report

OBJECTIVE

Report on the implementation of the 2030 GGRA Plan including a snapshot of Maryland's 2020 GHG Emissions Inventory, primary emissions drivers per sector, updates on State agency programs and meeting longer-term goals.

TIMELINE (2022)

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
Identify Emissions Drivers	Identify Emissions Drivers data sources	Quantify Emissions Drivers	Coordinate with State agencies	Write a first draft of the Progress Report	Complete the first draft of the Progress Report	State agency review	Governor Office review	Finalize	Release on or before October 1, 2022



Tracking Emissions Drivers

SECTOR	DRIVER	METRIC
Electricity	<i>Clean Sources</i>	% of electric consumption by clean/renewable sources
	<i>Carbon Intensity</i>	carbon intensity (tCO ₂ e/MWh) of electricity supply from all sources
Transportation	<i>Electrification</i>	% of vehicles on the road that are ZEV
	<i>Miles Traveled</i>	vehicle miles traveled annually
Buildings	<i>Electrification</i>	% of residential and commercial buildings heated by heat pumps
	<i>Efficiency</i>	energy use intensity (kBtu/SF) of buildings from all energy sources



Tracking Emissions Drivers

SECTOR	DRIVER	METRIC
Short Lived Climate Pollutants (SLCPs)	<i>Methane</i>	Emissions from fossil fuel industry, agriculture and waste management
	<i>Refrigerants, Aerosols and Foams</i>	MMTCO ₂ e from ODS substitutes (HFCs) in GHG inventory
Natural and Working Lands (NWL)	<i>Trees</i>	Acres of afforestation and reforestation Acres under forest management Number of urban trees
	<i>Soils</i>	Acres of agricultural land under climate-friendly agricultural practices
	<i>Wetlands</i>	Acres of restored wetlands



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