

National Performance Management Measures

GHG Measure & State DOT Reporting for February 1, 2024

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U.S. Department of Transportation
Federal Highway Administration



Housekeeping

Disclaimers:

- Except for the statutes and regulations cited, the contents of this document do not have the force and effect of law and are not meant to bind the States or the public in any way. This document is intended only to provide information regarding existing requirements under the law or agency policies.
- Citations to 23 CFR part 490 are as amended by the final rule.



Welcome

- The focus of today's webinar is on preparing for the Feb 1st Reporting.
 - Helpful to have reviewed Dec 13th Webinar recording www.fhwa.dot.gov/tpm/resources/presentations.cfm
- Mentimeter - Poll
 - Who's here today?
 - Did you attend or view the Dec 13th webinar?



Today's Webinar Agenda

- Part 1: Measure and Metric
- Part 2: Target & Reporting Phase-in. February 1, 2024: State Initial GHG Report
- Part 3: Questions about February 1st Reporting



Part 1

Measure and Metric



Transportation Performance Management (TPM) Performance Measures

Performance Area	Performance Measure
Safety	<ul style="list-style-type: none"> • Number of fatalities • Rate of fatalities per 100 million vehicle miles traveled (VMT) • Number of serious injuries • Rate of serious injuries per 100 million vehicle miles traveled • Number of non-motorized fatalities and non-motorized serious injuries
Pavement Condition	<ul style="list-style-type: none"> • Percentage of pavements of the Interstate System in Good condition • Percentage of pavements of the Interstate System in Poor condition • Percentage of pavements of the non-Interstate National Highway System (NHS) in Good condition • Percentage of pavements of the non-Interstate NHS in Poor condition
Bridge Condition	<ul style="list-style-type: none"> • Percentage of NHS bridges classified as in Good condition • Percentage of NHS bridges classified as in Poor condition
System Performance	<ul style="list-style-type: none"> • Percent of person-miles traveled on the Interstate that are reliable • Percent of person-miles traveled on the non-Interstate NHS that are reliable • NEW: Percent change in tailpipe carbon dioxide (CO₂) emissions on the NHS compared to the reference year – (calendar year 2022)
Freight Movement	<ul style="list-style-type: none"> • Truck Travel Time Reliability (TTTR) Index
Traffic Congestion	<ul style="list-style-type: none"> • Annual Hours of Peak Hour Excessive Delay (PHED) Per Capita • Percent of Non-Single Occupancy Vehicle (SOV) Travel
On-Road Mobile Source Emissions	<ul style="list-style-type: none"> • Total Emission Reductions for applicable criteria pollutants

GHG Metric and Measure [§ 490.511(a)(2), § 490.507(b)]

GHG Metric

Annual total tailpipe CO₂ emissions on the NHS

Purpose

Metric used to calculate measure

GHG Measure

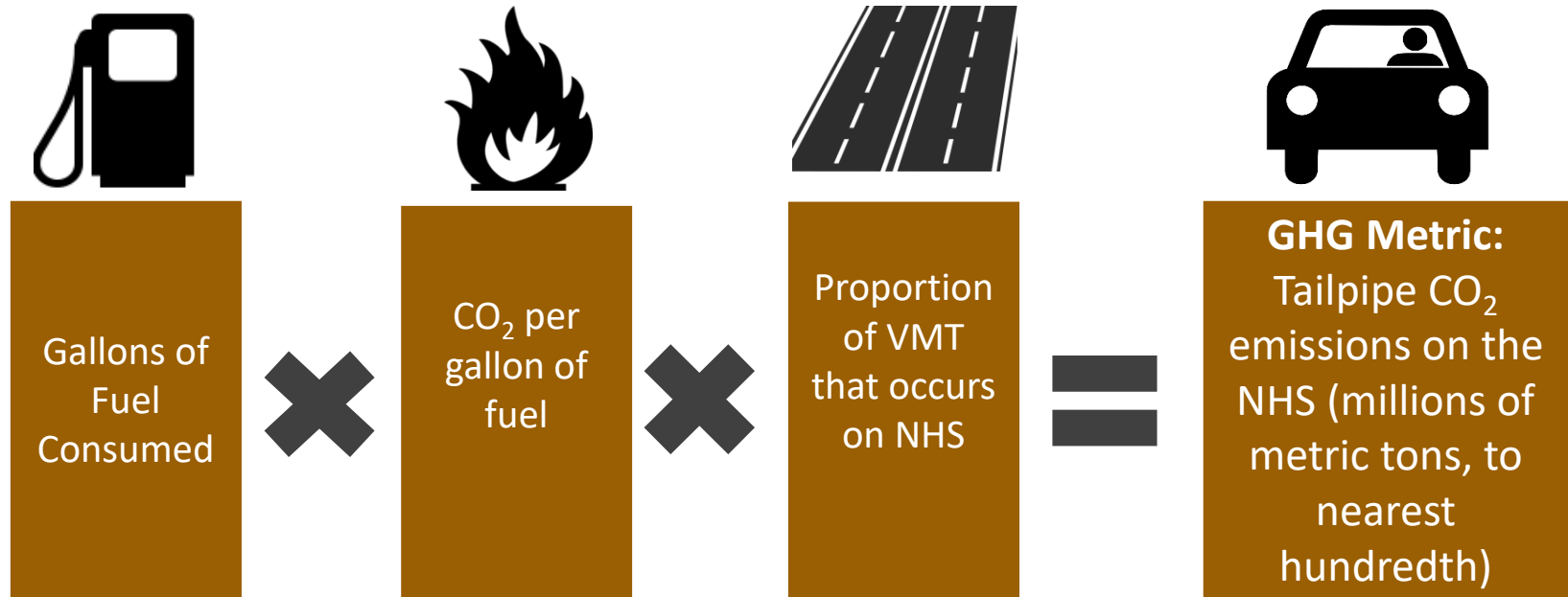
Percent change in tailpipe CO₂ emissions on the NHS, compared to the reference year – (Calendar Year (CY) 2022)

Purpose

State DOTs and MPOs report on progress toward targets






§ 490.511: Calculating the GHG Metric – Annual Tailpipe CO₂ Emissions on the NHS



- Simple calculation
- Data readily available from all states and already reported
- Nationally consistent for States
- Proportion of VMT on NHS is proxy for proportion of CO₂ on NHS
- MPOs may use other methods to calculate the metric

§ 490.509: Data Requirements for Metric Calculation

Data Required	Data Source	Description
<p>Annual Fuel Sales</p> 	<p>Fuels and Financial Analysis System-Highways (Fuels & FASH)</p>	<p>Total gallons of fuel consumed by fuel type (gasoline and gasohol, and special fuels). Based on fuel sales data for the prior calendar year. Expressed in 1,000 gallons</p>
<p>CO₂ emission factors</p> 	<p>FHWA-supplied emission factors</p>	<p>CO₂ emissions per volume of gasoline/gasohol and special fuels. Posted on FHWA website no later than August 15th of each reporting year.</p>
<p>Annual vehicle miles travelled (VMT)</p> 	<p>VMT estimates are from best available data that represents the prior calendar year and is consistent, to the maximum extent practicable, with data submitted to HPMS. The reference year shall use HPMS data as of November 30, 2023.</p>	

§ 490.513(d): Calculating the GHG Measure

$$\left(\frac{\text{Tailpipe CO}_2 \text{ Emissions on NHS}_{\text{analysis year}} - \text{Tailpipe CO}_2 \text{ Emissions on NHS}_{\text{CY 2022}}}{\text{Tailpipe CO}_2 \text{ Emissions on NHS}_{\text{CY 2022}}} \right) \times 100 =$$

% change in tailpipe CO₂ emissions on the NHS compared to CY 2022

Part 2

Target & Reporting Phase-in.

February 1, 2024: State Initial GHG Report



Phase-in - Initial Target & Reporting Requirements

- Performance Period Starts January 1, 2022, and extends 4 years. [§ 490.105(e)(4)(i)(C)]

State DOTs:

- Establish initial targets by **February 1, 2024** [§ 490.105(e)(1)]
- Initial Target Requirements:
 - Establish **declining** 4-year targets. Exempt from 2-year targets.
[490.105(e)(10)]
- State Initial GHG Report due February 1, 2024 [§ 490.107(d)]



§ 490.107(d): Phase-in - State Initial GHG Report

- The report shall include:
 - 4-year target for performance period
 - Basis for the established target
 - Relationship with other performance expectations
 - The GHG metric for CY 2022, the reference year, and the individual values used to calculate the metric

§ 490.107(d)(2): Data Sources for Calculating the GHG Metric for the Initial GHG Report

Data Input	Data Source	Description
Calendar Year 2022 Fuel Sales	Fuels and Financial Analysis System-Highways (Fuels & FASH)	Total gallons of fuel consumed by fuel type (gasoline and gasohol, and special fuels). Based on fuel sales data for the prior calendar year. Expressed in 1,000 gallons.
CO ₂ emission factors for CY 2022	FHWA-supplied emission factors	Gasoline & Gasohol Fuels 0.0000081 mmt/(1,000 gal) Special Fuels 0.00001019 mmt/(1,000 gal)
Calendar Year 2022 Vehicle Miles Traveled (VMT)	Highway Performance Monitoring System (HPMS)	Estimates of VMT on NHS and all public roads as of November 30, 2023

State Initial GHG Report due February 1, 2024.

Resources:

- Final Rule:
<https://www.federalregister.gov/documents/2023/12/07/2023-26019/national-performance-management-measures-assessing-performance-of-the-national-highway-system>
- State Initial GHG Report Form:
<https://www.regulations.gov/document/FHWA-2021-0004-39831>
- Calendar Year 2022 Fuel Data and CO2 Factors [Corrected]:
<https://www.regulations.gov/document/FHWA-2021-0004-39835>
- Calendar Year 2022 Vehicle Miles Traveled (VMT) Data:
<https://www.regulations.gov/document/FHWA-2021-0004-39834>
- TPM Website: <https://www.fhwa.dot.gov/tpm/>



Online resource demo



Report Submittal

- Not later than **February 1, 2024**
 - State DOTs should submit their Initial GHG Report to:
TPMReporting@dot.gov
 - Subject line, "XX_2024 State Initial GHG Report".
 - The two-letter state abbreviation should be used in place of "XX".
 - The .pdf file name and the subject of the email should be the same.
- FHWA encourages the State DOTs to coordinate with their Division Office before submitting the Initial GHG Report to TPMreporting@dot.gov.



Key Dates

- February 1, 2024 - Last day for State DOTs to submit their State Initial GHG Report to FHWA.
- February 1 - March 1, 2024 – FHWA will review the submittals and reach out to State DOTs via the FHWA Division with any questions or concerns.
- March 4, 2024 - The 2024 State Initial GHG Report submittal is closed, and submittal data is archived.
- October 1, 2024, Mid Performance Period Progress Report is due. State DOTs can submit amended 4-year targets for the GHG measure. (Optional)

Part 3

Questions about Feb 1st Reporting?



Thank you!

