

Mobile Sources



Proposed Rule: Mandatory Reporting of Greenhouse Gases

Under the proposed Mandatory Reporting of Greenhouse Gases (GHGs) rule, all vehicle and engine manufacturers,¹ except small businesses or small-volume manufacturers, would report emission rates of carbon dioxide (CO₂), nitrous oxide (N₂O), and methane (CH₄) from the products they supply. EPA is also seeking comment on the need to collect additional emission and activity data from fleet operators and state and local governments.

This information sheet summarizes the proposed requirements for vehicle and engine manufacturers. EPA proposes to incorporate these GHG reporting requirements into the long-standing conventional (“criteria”) pollutant and fuel economy testing and reporting requirements under Title II of the Clean Air Act, and to use existing measurement methods and data collection systems wherever possible.

How Is This Source Category Defined and What GHGs Would Be Reported?

Manufacturers of the following mobile source categories...	would report the following GHGs...	in units of...	for new vehicles and engines certified under or subject to the Code of Federal Regulations (CFR) Title 40, including proposed amendments to these parts.
Light-duty vehicles	CO ₂ , N ₂ O, CH ₄ , Air conditioning-related GHGs	grams per mile ^a	86, 600, 1064, ^b 1065
Highway heavy-duty vehicles (chassis-certified)	CO ₂ , N ₂ O, CH ₄ , Air conditioning-related GHGs	grams per mile ^a	86
Highway heavy-duty engines	CO ₂ , N ₂ O, CH ₄	grams per kilowatt-hour	86
Highway motorcycles	CO ₂ , N ₂ O, CH ₄	grams per kilometer	86
Nonroad diesel engines	CO ₂ , N ₂ O, CH ₄	grams per kilowatt-hour	89, 1039
Marine diesel engines	CO ₂ , N ₂ O, ^c CH ₄ ^c	grams per kilowatt-hour	94, 1042
Locomotive engines	CO ₂ , N ₂ O, CH ₄	grams per kilowatt-hour	1033
Nonroad small spark ignition engines	CO ₂ , N ₂ O, CH ₄	grams per kilowatt-hour	90, 1054
Nonroad large spark ignition engines	CO ₂ , N ₂ O, CH ₄	grams per kilowatt-hour	1048
Marine spark ignition engines/personal watercraft	CO ₂ , N ₂ O, CH ₄	grams per kilowatt-hour	1045
Snowmobiles	CO ₂ , N ₂ O, CH ₄	grams per kilowatt-hour	1051
Off-highway motorcycles and ATVs	CO ₂ , N ₂ O, CH ₄	grams per kilowatt-hour	1051
Aircraft engines ^d	CO ₂ , CH ₄	grams per kilonewton	87

^a Except air conditioning-related GHGs; see relevant CFR sections for details.

^b This is a new part, not an amendment.

^c Except C3 marine engines.

^d Only turbofan and turbojet engines with a rated output greater than 26.7 kilonewtons.

¹ The term “manufacturer” in this information sheet means a company that is subject to EPA’s mobile source emission certification requirements. This category primarily includes companies that manufacture vehicles and engines domestically and foreign manufacturers that import vehicles and engines into the U.S. market. In some cases, it also includes domestic companies that are required to meet EPA certification requirements when they import foreign-manufactured vehicles or engines.

The reporting requirements would not apply to manufacturers treated as a “small business” or “small-volume manufacturers” under EPA’s existing vehicle and engine emission regulations. Unique definitions of “small” apply to manufacturers of different mobile source categories. See the respective sections of CFR for details.

How Would GHG Emissions Be Calculated?

To measure emission rates under the proposal, manufacturers would use prescribed testing and measurement procedures, the vast majority of which are already used for existing criteria pollutant reporting requirements. These procedures vary by mobile source category and pollutant. For more information on these procedures, please see the proposed preamble and the proposed amendments to the respective sections of CFR.

What Information Would Be Reported?

Under the proposal, manufacturers would report GHG emission rates of new vehicles and engines at the same time and through the same process as they currently follow for criteria pollutant emission certification and, where appropriate, fuel economy reporting. GHG reporting requirements would apply beginning with the 2011 model year.

For More Information

This series of information sheets is intended to assist reporting facilities/owners in understanding key provisions of the proposed rule. However, these information sheets are not intended to be a substitution for the rule. Visit EPA’s Web site (www.epa.gov/climatechange/emissions/ghgrulemaking.html) for more information, including the proposed preamble and rule and additional information sheets on specific industries, or go to www.regulations.gov to access the rulemaking docket (EPA-HQ OAR-2008-0508). For questions that cannot be answered through the Web site or docket, call 1-877-GHG-1188.