



Engines and Vehicles –
Compliance Information System (EV-CIS)

Heavy-Duty Vehicle GHG Phase II Compliance Updates

Informational Meeting

July 14, 2021

Agenda

- What's Happening
- Status of HD GHG Phase II in EV-CIS
- Production Volume (PV) Reporting Changes
- Averaging, Banking, and Trading (ABT) Reporting Changes
- Exempted Off-Road Vehicle Reporting Changes
- Demo of PV Reporting Module
- Deployment and Testing Information
- Contact Information and Resources
- Questions

What's Happening?

- EPA is implementing the remaining compliance reporting requirements from the HD GHG Phase II rule into EV-CIS.
 - EPA is updating the **new** PV Reporting module* to accommodate HD Vehicle GHG (Phase II only).
 - Corrections to Phase I PV Reports must be done through the existing HD Vehicle GHG Phase I PV Reporting module.
 - EPA is updating the **existing** ABT Module of the HD Vehicles Compliance System to accommodate reporting for HD Vehicle GHG Phase II.
 - EPA is updating the **existing** Exempted Off-Road Vehicle Reporting System to accommodate reporting for HD Vehicle GHG Phase II.
- EPA is targeting the **end of 2021** for these changes to go live.

** In November 2020, EPA released a new PV Reporting module intended to unify and streamline the reporting process across all industries. The first release only supported HD Engines (Phase I and II).*

Status of HD GHG Phase II in EV-CIS

What's Been Done?

- HD Engines Module Updates
 - Certification
 - Compliance Reporting
 - PV Reporting
 - ABT Reporting
- HD Vehicle GHG Module Updates
 - Certification

What's Left?

- HD Vehicle GHG Module Updates
 - Compliance Reporting
 - PV Reporting
 - ABT Reporting
 - Exempted Off-Road Vehicle Reporting
- *All of these remaining changes are scheduled to go live at the end of 2021.*

PV Reporting Changes

High-level summary of programmatic changes for Phase II

- A single template for collecting report data for tractors, vocational vehicles, and custom chassis (certified using custom chassis alternative standards or design specifications of 1037.105(h))
- Collection of new vehicle characteristics such as applicable regulation, fuel, advanced technology, GEM version used for compliance, etc.
- Collection of the same data used in a GEM input file
- Updated list of vehicle regulatory sub-categories
- Mandatory entry of powertrain, engine, transmission, and axle information as applicable

PV Reporting Changes

System changes to note

- PV reporting for HD Vehicle GHG Phase II (model year 2021 and later) is being integrated into the new PV reporting module.
 - Some basic information must be entered on-screen (i.e., report metadata, manufacturer contact(s), and comments).
 - Most information will be included in the CSV file that must be attached.
 - The contents of the CSV file will be validated against business rules and the submission will be rejected if any rows of data fail validation.
 - Drafted and accepted reports appear on the PV Reporting Home screen where users can see what has been submitted by any user within their company and the status of those submissions.
- Corrections to HD Vehicle GHG Phase I (model year 2020 and earlier) production volume reports will continue to be submitted through the legacy PV reporting module.
 - A link to the legacy PV module will be included at the bottom of the Home screen of the new PV Reporting module

PV Reporting

EV-CIS Home

EV-CIS Home page showing navigation options. The 'Production Volume' icon is circled in purple, with an arrow pointing to the 'New PV Reporting Module'.

New PV Reporting Module

New PV Reporting Module interface. The 'Create Submission' button is circled in red. The 'Actions' column in the submission history table has a 'Select' dropdown circled in red. A purple circle highlights a 'HD Vehicle CHG Phase I PV Reporting' button at the bottom.

EPA Report Name	Mfr Report Name	EPA Submission ID	Model Year	Industry	Submission Status	Last Modified	Last Modified By	Actions
Production Volume Report-2021	2021 HDV PV Testing File	EPA-PV-2021-0000030	2021	Heavy-Duty Highway Tractors and Vocational Vehicles	Pending In Progress	06/07/2021 06:06:46 pm	Christy Stierler	Select
Production Volume Report-2021	1st HDV 2021 PVR Submission1	EPA-PV-2021-0000022	2021	Heavy-Duty Highway Tractors and Vocational Vehicles	Submitted	06/07/2021 05:28:33 pm	Kelly Kacan	Select
Production Volume Report-2021	1st HDV 2021 PVR Submission2	EPA-PV-2021-0000022	2021	Heavy-Duty Highway Tractors and Vocational Vehicles	Pending In Progress	06/07/2021 04:45:50 pm	Kelly Kacan	Select

Submit new Phase II report

to new PV reporting module

to legacy PV reporting module

Legacy PV Reporting Module

Legacy PV Reporting Module interface. The 'Production Volume Reports' link is circled in red. A red arrow points to the 'Correct Phase I report' text.

PV Reporting Changes

System changes to note

- Upon deployment of the system—
 - a new Phase II data import template for 2021 and later model years will be published to the EV-CIS website (an advance **DRAFT** copy of this new template is available now—see the [Resources](#) slide for details); and
 - the Phase I data import template will remain on the EV-CIS website to allow for corrections to 2020 and earlier model years.

ABT Reporting Changes

High-level summary of programmatic changes for Phase II

- Ability to identify as a small business and for small businesses to optionally certify to Phase I standards in MY2021
- Updated list of vehicle regulatory sub-categories (previously “vehicle classifications”)
- Updated list of averaging sets to include custom chassis averaging sets
- New CO₂ and FC standards for Phase II including updates from technical amendments
- Ability to certify to a higher service class to allow for the generation of credits or deficits per the provisions of 1037.105(g) or 1037.106(f)
- Revisions to the list of allowable advanced technology types
- Updated list of useful life values
- Incorporation of off-cycle technology improvement factors as part of the CO₂ FEL as these technologies are now part of the GEM model
- Removal of advanced technology and innovative technology improvement factor data fields
- Updates to CO₂ and FC advanced technology and total credit calculations

ABT Reporting Changes

System changes to note

- **No new system** is being deployed for HD Vehicle GHG Phase II ABT reporting—
 - Phase II is being integrated into the existing system.
 - Submission of Phase II reports and corrections to Phase I reports will be done through the same existing system.
- Upon deployment of the system updates—
 - a new Phase II data import template for 2021 and later model years will be published to the EV-CIS website (an advance **DRAFT** copy of this new template is available now—see the [Resources](#) slide for details); and
 - the Phase I data import template will remain on the EV-CIS website to allow for corrections to 2020 and earlier model years.

Exempted Off-Road Vehicle Reporting Changes

High-level summary of programmatic changes for Phase II

- Removed the exemption for tires installed having a maximum speed rating at or below 55 mph per 1037.631(a)(1).
- Added the exemption for vehicles having a maximum speed rating at or below 54 mph per 1037.631(a)(2)(iv).

Exempted Off-Road Vehicle Reporting Changes

System changes to note

- **No new system** is being deployed for HD Vehicle GHG Phase II Exempted Off-Road Vehicle reporting—
 - Phase II is being integrated into the existing system.
 - Submission of Phase II reports and corrections to Phase I reports will be done through the same existing system.
- Upon deployment of the system updates—
 - a new Phase II data import template for 2021 and later model years will be published to the EV-CIS website (an advance **DRAFT** copy of this new template is available now—see the [Resources](#) slide for details); and
 - the Phase I data import template will remain on the EV-CIS website to allow for corrections to 2020 and earlier model years.

Demonstration

How to Participate in Testing

- EPA will **NOT** be holding an official Manufacturer Testing period.
- However, you **CAN** participate system testing by providing test data—
 - Compile and send in scenarios that you'd like EPA to test.
 - Download the Phase II CSV template. The draft is available online at <https://www.epa.gov/ve-certification/templates-heavy-duty-vehicle-production-volume-reporting-and-exempted-road-vehicles>
 - Fill in the template with data that tests scenarios in which you are interested; however, **DO NOT USE REAL DATA OR CBI**. Scrub the data of any potential CBI by using fake data that still captures the essence of the scenario you'd like to test.
 - Send your CSV file via email to evcis@epa.gov with **Email Subject**, “HDV GHG Phase II PVR Test File”
 - EPA is accepting these test files **NOW** through **October 1**, but we cannot guarantee that your test file will be used. The sooner you submit your test file, the more likely we will be able to test with it.
 - EPA will test using your CSV file and send you the results (i.e., either a success message or the resulting business rules triggered).

Deployment and Testing Information

Targeted Timeframe*	Activity
October 1, 2021	<u>Deadline</u> for manufacturer submission of CSV test files for EPA testing.
End of 2021	<u>Production Deployment</u> of all HD Vehicle GHG Phase II compliance updates

* Dates and timeframes are subject to change.

Contact Information

EV-CIS Help Desk

Direct all system-related questions to the EV-CIS Help Desk—

Email evcishelpdesk@epacdx.net

or

Call 1-888-890-1995

EV-CIS Listserver

To sign up for the EV-CIS list server,

send email to evcis-subscribe@lists.epa.gov

Manufacturer Information and Guidance Listserver

To be notified when new manufacturer information, guidance letters and advisory circulars are issued for vehicle, engine, and equipment programs, join the Manufacturer Information list server by sending email to

manufacturer-info-subscribe@lists.epa.gov.

Resources

EV-CIS Website

<https://www.epa.gov/vehicles-and-engines>

EV-CIS User Registration

<https://www.epa.gov/ve-certification/how-register-engines-and-vehicles-compliance-information-system-ev-cis>

Compliance Reporting for Heavy-Duty Commercial Trucks and Buses and Onroad Heavy-Duty Engines

<https://www.epa.gov/ve-certification/compliance-reporting-heavy-duty-commercial-trucks-and-buses-and-onroad-heavy-duty>

Resources

The following pages include draft copies of Heavy-Duty Vehicle GHG Phase II documentation which provide advance information about the changes scheduled to be released by end of year 2021:

System Documentation for Heavy-Duty Greenhouse Gas (GHG) Reporting

<https://www.epa.gov/ve-certification/system-documentation-heavy-duty-greenhouse-gas-ghg-reporting>

Templates for Heavy-Duty Vehicle Production Volume Reporting and Exempted Off-Road Vehicles

<https://www.epa.gov/ve-certification/templates-heavy-duty-vehicle-production-volume-reporting-and-exempted-road-vehicles>

CSV Import Template for Heavy-Duty Vehicle GHG Averaging, Banking, and Trading (ABT)

<https://www.epa.gov/ve-certification/csv-import-template-heavy-duty-vehicle-ghg-averaging-banking-and-trading-abt>

System Documentation and Guidance for Production Volume Reporting Under 40 CFR Parts 85, 1036, and 1037

<https://www.epa.gov/ve-certification/system-documentation-and-guidance-production-volume-reporting-under-40-cfr-parts-85>



Questions?