

# Greenhouse Gas (GHG) Emissions Reporting



Everyone is striving to reduce carbon emissions, and the path to zero emissions begins with capturing and reporting carbon data, understanding how much is used, and ultimately developing a plan to reduce emissions. 3G Transportation Management provides a means to capture, store, and report this data, serving as the first step towards reducing carbon emissions.

## Key Features:

- Designed for carriers, shippers, and 3PLs
- Add, edit, delete, and update GHG data
- Facilitate carrier data contributions
- Allocate data from loads to orders
- Identify power unit types
- Shipment level allocation
- Export emissions data

# What is Greenhouse Gas Emissions Reporting?

Greenhouse gas emission reporting involves tracking and documenting the amount of greenhouse gases, such as CO<sub>2</sub>, that are emitted by an organization's operations. This process helps companies measure their environmental impact, comply with regulations, and identify opportunities for reducing emissions to promote sustainability. There are 3 main components of 3G's Greenhouse Gas Reporting capabilities:



## Greenhouse Gas Reporting Data Elements

- Operation Category of GHG Emissions: Identifies and classifies emissions categories for comprehensive reporting.
- GHG Value (CO<sub>2</sub>e): Records Carbon Dioxide Equivalent values to standardize emissions data.

## Compliance

- 3G uses the [Global Logistics Emissions Council \(GLEC\)](#) for scope definitions and identifying emissions categories.
  - Scope definitions include: Scope 1, Scope 2, and Scope 3.
  - Emission categories include: Well to Wheel (WTW), Well to Tank (WTT), and Tank to Wheel (TTW) (see additional information on page 3)

## Data Sources & Management

- Primary Data: Self-calculated emissions data.
- Secondary Data: Emissions data sourced externally, with verifiable sources.

# A Little More On Compliance

The Global Logistics Emissions Council (GLEC) is a voluntary partnership of companies, associations, and programs focused on improving the transparency and accuracy of greenhouse gas emissions measurement and reporting in the logistics and transportation sectors. The GLEC develops guidelines and frameworks to help organizations consistently calculate and report their logistics emissions. Below is a closer look at Scope definitions and Emissions categories used by the GLEC.

<p><b>Scope 1</b></p> <p>Direct emissions from assets owned or controlled by the reporting company.</p> <p><b>1</b></p>	<p><b>Scope 2</b></p> <p>Indirect emissions from purchased electricity, heat, and steam.</p> <p><b>2</b></p>	<p><b>Scope 3</b></p> <p>Indirect emissions from the reporting company's supply chain.</p> <p><b>3</b></p>
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Currently, 3G is capable of collecting and reporting on Scopes 1 & 3

<p><b>Well to Wheel</b></p> <p>Total emissions from fuel production to vehicle operation.</p> <p><b>WTW</b></p>	<p><b>Well to Tank</b></p> <p>Emissions from fuel production to delivery to the vehicle.</p> <p><b>WTT</b></p>	<p><b>Tank to Wheel</b></p> <p>Emissions during fuel combustion for vehicle propulsion.</p> <p><b>TTW</b></p>
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Emissions are categorized by how it is produced, distributed and used.

# Key Features of 3G's GHG Reporting



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## Designed for carriers, shippers, and 3PLs

Ensures that the greenhouse gas reporting capabilities are tailored to meet the specific needs of various stakeholders in the transportation industry, enabling comprehensive and accurate emissions tracking.

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## Add, edit, delete, and update GHG data

Maintain accurate and up-to-date greenhouse gas data at the stop level, ensuring that reports reflect the most current information for better decision-making and compliance.

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## Facilitate carrier data contributions

Import CO<sub>2</sub>e data via status messages through the API to collect and consolidate emissions data thereby improving the accuracy and completeness of greenhouse gas reports.

# Key Features of 3G's GHG Reporting

## Allocate data from loads to orders

Precise tracking of emissions per order, with 3G calculating a dimensional (dim) weight for accurate emissions reporting, providing detailed insights into the environmental impact of specific shipments.

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## Identify power unit types

Categorize different types of power units to accurately calculate emissions based on the specific fuel consumption characteristics of each unit, leading to more precise reporting.

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## Shipment level allocation

Detailed emissions data at the shipment level, allowing customers to analyze the environmental impact of individual shipments and make informed decisions to optimize their carbon footprint.

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## Export emissions data

Export emissions data in various formats, facilitating easy sharing and integration with other systems for comprehensive environmental reporting and compliance.

