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NGSI Version 3.0 Updates

Webinar for AGA and EEI member
companies

January 2026*

**slides 8 and 9 updated March 2026*





1. Methodology Updates

Based on May 2024 revisions to GHGRP

Version 3 incorporates the updated calculation methodologies, activity data, and measurement methods specified in the May 14, 2024 revisions to GHGRP Subpart W along with some additional updates.



Distribution Segment Updates

- New Emission Source: Other Large Release Events
- Incorporated new GHGRP methodology for previously GHGi-only Emission Sources
 - Blowdown Vent Stacks (Equipment and Pipeline) with volume $\geq 500 \text{ ft}^3$
 - Crankcase vents
 - Natural Gas Pneumatic Device Venting (Low-Bleed, Intermittent-Bleed and Hi-Bleed)



Transmission and Storage Segment Updates

- Updated name of Transmission Storage Tanks to Condensate Storage Tanks
- New Emission Sources: Other Large Release Events; Equipment Leaks: Natural Gas Transmission Interconnect Metering-Regulation Stations; Natural Gas Transmission Pipeline – Farm Tap/Direct Sale Metering-Regulating Stations; Acid Gas Removal Units (AGRU) and Nitrogen Removal Units (NRU), LNG Storage
- Incorporated new GHGRP methodology for previously GHGi-only Emission Sources
 - Dehydrator Vents, Glycol
 - Dehydrator Vents, Dessicant
 - Equipment Leaks-Storage
 - Equipment Leaks-Transmission
 - Station Venting, Natural Gas Storage and LNG
 - Blowdown vent stacks
 - Crankcase Vents
- These changes make Sections 2 and 3 of the template obsolete as there are no longer any sources using a GHGi methodology
- Other GHGRP quantification method revisions:
 - Centrifugal Compressor Venting now includes both wet seal and dry seal oil degassing



Processing Segment Updates

- Updated definition for Onshore Natural Gas Processing.
- New Emission Source: Other Large Release Events
- Incorporated new GHGRP methodology for previously GHGi-only Emission Sources
 - Acid Gas Removal Units and Nitrogen Removal Units
 - Hydrocarbon Liquids and Produced Water Storage Tank Emissions
 - Crankcase Vents
 - Pneumatic Device Venting (Low-Bleed, Intermittent-Bleed and Hi-Bleed)
- These changes make Sections 2 and 3 of the template obsolete as there are no longer any sources using a GHGi methodology
- Other GHGRP quantification method revisions:
 - Centrifugal Compressor Venting now includes both wet seal and dry seal oil degassing



Gathering & Boosting Segment Updates

- New Emission Source: Other Large Release Events
- Incorporated new GHGRP methodology for previously GHGi-only Emission Sources
 - Acid Gas Removal Units and Nitrogen Removal Units
 - Crankcase Vents
- Other GHGRP quantification method revisions:
 - Centrifugal Compressor Venting: includes both wet seal and dry seal oil degassing
 - Equipment leaks: includes major equipment like wellheads, separators, meters/piping, compressors, dehydrators, heaters, and storage vessels
 - Storage tanks: include produced water storage tanks and floating roof tanks



Onshore Production Segment Updates

- Updated source definition for enhanced oil recovery (EOR) well-pads
- New Emission Source: Other Large Release Events
- Incorporated new GHGRP methodology for previously GHGi-only Emission Sources
 - Acid Gas Removal Units and Nitrogen Removal Units
 - Blowdown Vent Stacks (Equipment and Pipeline) with volume $\geq 50 \text{ ft}^3$
 - Crankcase Vents
 - Drilling Mud Degassing
 - EOR Hydrocarbon Liquids Dissolved CO_2
 - EOR Injection Pump Blowdown
- Other GHGRP quantification method revisions:
 - Centrifugal Compressor Venting now includes both wet seal and dry seal oil degassing
 - Equipment leaks includes major equipment like wellheads, separators, meters/piping, compressors, dehydrators, heaters, and storage vessels
 - Storage tanks now includes produced water storage tanks and floating roof tanks



Overlap Between GHGi Sources and OLRE

- The addition of Other Large Release Events (ORLE) introduced a potential risk of double counting in certain GHGi categories when an emission event exceeded 100 kg/h. This impacted the Production, G&B, and Distribution templates.
- **Affected Sources and Solutions**
 - **Compressor Starts:** If an event >100 kg/h occurs at a facility, enter 0 compressors for that facility in Section 2 and include the emissions under OLRE in Section 1.
 - **Damages (Mishaps) – G&B:** If an event >100 kg/h occurs at a facility, enter 0 miles for that facility in Section 2 and include the emissions under OLRE in Section 1.
 - **Damages (Mishaps) – Distribution:** If an event >100 kg/h occurs at a facility, include those emissions as OLRE in Section 1 and enter any non-OLRE damages emissions into “Dig-ins (Distribution Upsets: Mishaps) Option 2: Methane Emissions (MT)” in Section 2.
 - **Pressure Relief Valves (PRV) Releases:** Exclude PRVs associated with events >100 kg/h from the count in Section 2.



Overlap Between GHGi Categories and OLRE

- Previously, the Distribution template automatically summed the total mileage of pipeline for the respective facilities. Now it is a manual entry cell, avoiding double counting by allowing OLRE and non-OLRE damages emissions to be reported in MT.

NGSI Version 2

Green cell indicates a calculation

Distribution Main Mileage (miles)	0.00
Average Service Length (feet)	90.00
Distribution Service Mileage (miles)	
Distribution Pipeline Total Mileage (miles)	0.00
Meters, Outdoor Residential	

NGSI Version 3

Yellow cell indicates a manual activity data entry

Distribution Main Mileage (miles)	0.00
Average Service Length (feet)	90.00
Distribution Service Mileage (miles)	
Dig-ins (Distribution Upsets: Mishaps) Option 1: Pipeline Total Mileage (miles)	
Dig-ins (Distribution Upsets: Mishaps) Option 2: Methane Emissions (MT)	
Meters, Outdoor Residential	

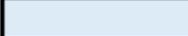


2. Template Formatting Updates

To ensure consistency across segments and improve usability, minor formatting updates were applied to the templates. These changes do not impact calculations or data input requirements.



Update to Spreadsheet Key

Spreadsheet Key	
	Blue shaded cells designate required manually entered emissions and other parametric data
	Yellow shaded cells designate required manually entered operating or activity data
	Orange shaded cells designate cells pre-populated with default values. The default values can be replaced with company or facility specific data if available at a company's discretion
	Green indicates that no data entry is required; cells auto-calculate once the entries in the prior sections are entered
	Gray shaded cells designate optional manually entered emissions data; these cells have no dependents and do not influence calculated values

Gray shading was added to indicate optional data entry



Source-Level Reporting for GHGRP Facilities

- In previous versions, the Processing and Distribution segments had emission source types itemized in the GHGRP tab, because these segments have unique criteria requiring individual source type entries.
- For consistency and transparency, emission source categories are now detailed across all segments on the GHGRP tab.
- For Production, Gathering & Boosting, and Transmission & Storage, entering emissions data at the source category level is **optional** for GHGRP reporters.
- The total methane emissions value must still be provided, regardless of whether individual source data is entered.



Source-Level Reporting Optional: Production, G&B, and T&S

NGSI Version 2

Section 1: Data Entry Required (GHGRP Reported Methane Emissions for each Facility)						
Section 1. Transmission & Storage Segment Emissions Calculated Using GHGRP Methodology						
	Methane Emissions (Metric Ton CH4)					
	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"
Total GHGRP Methodology Methane Emissions (MT)						

NGSI Version 3

Section 1: Data Entry Required (GHGRP Reported Methane Emissions for each Facility). Source-specific emissions data entry is optional.						
Section 1. Transmission & Storage Segment Emissions Calculated Using GHGRP Methodology						
Emissions Source	Methane Emissions (Metric Ton CH4)					
	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"
Compressors, Centrifugal						
Compressors, Reciprocating						
Crankcase Vents						
Dehydrator Vents, Glycol						
Dehydrator Vents, Desiccant						
Equipment Leaks – Transmission Compression						
Equipment Leaks – Underground Natural Gas Storage Stations and LNG Storage						
Equipment Leaks-Natural Gas Transmission Interconnect Metering/Regulation Stations						
Equipment Leaks-Natural Gas Transmission Pipeline: Farm Tap/Direct Sale Metering/Regulating Stations						
Equipment Leaks – Transmission Pipelines						
Flare Stacks						
Natural Gas Pneumatic Device Venting (Low-Bleed, Intermittent-Bleed and Hi-Bleed)						
Condensate Storage Tanks, Transmission Compression and Underground Natural Gas Storage						
Other Large Release Events						
Total GHGRP Methodology Methane Emissions (MT)						

Total emissions remains the only required emissions data entry, indicated by the blue color



Source-Level Reporting Required: Processing and Distribution

Section 1: Distribution Segment Emissions Calculated Using GHGRP Methodology			
Emissions Source			
	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"
Blowdown vent stacks			
Combustion Units			
Crankcase vents			
Distribution Mains (sum of emissions from all materials)			
Distribution Services (sum of emissions from all materials)			
Equipment Leaks, Above grade transmission-distribution transfer stations			
Equipment Leaks, Below grade transmission-distribution transfer stations			
Equipment Leaks, Above grade metering-regulating stations			
Equipment Leaks, Below grade metering-regulating stations			
Natural Gas Pneumatic Device Venting (Low-Bleed, Intermittent-Bleed and Hi-Bleed)			
Other Large Release Events			
Total GHGRP Methodology Methane Emissions, excluding mains and services (MT)	0.00	0.00	0.00
Total GHGRP Methodology Methane Emissions, all sources (MT)	0.00	0.00	0.00

Total Emissions for Distribution and Processing remain green, indicating cells are auto-calculated based on the emission source detail entered above



“Hiding” GHGi Calculations for Processing and T&S

- For Transmission & Storage and for Processing, Sections 2 and 3 are no longer applicable and have been hidden in the template.
- These sections covered activity factors and segment-level emissions calculated with the GHGi methodology, which as part of this update are now accounted for under the GHGRP in Section 1.

NGSI Version 2

Section 1: Data Entry Required (GHGRP-Based Methane Emissions for each Facility)						
Methane Emissions Calculated Using GHGRP Methodology						
0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 2: Data Entry Required (Counts of Equipment for each Facility)						
Activity Factors for Sources Using GHG Inventory Methodology						
Activity Data						
Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name

Section 3: Auto-Calculated No Data Entry Required (unless using alternative method for dehydrator vents; see Cells BC32 and BC33)						
Methane Emissions Calculated Using GHG Inventory Methodology						
Methane Emissions (Metric Ton CH4)						
Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 4: Auto-Calculated No Data Entry Required						
Non-GHGRP T&S Facility						
Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name
0.00	0.00	0.00	0.00	0.00	0.00	0.00

NGSI Version 3

Section 1: Data Entry Required (GHGRP Reported Methane Emissions for each Facility). Source-specific emissions data entry is required						
Methane Emissions (Metric Ton CH4)						
GHGRP Facility Name	GHGRP Facility Name	GHGRP Facility Name	GHGRP Facility Name	GHGRP Facility Name	GHGRP Facility Name	GHGRP Facility Name

Section 4: Auto-Calculated No Data Entry Required						
Methane Emissions (Metric Ton CH4)						
GHGRP Facility Name	GHGRP Facility Name	GHGRP Facility Name	GHGRP Facility Name	GHGRP Facility Name	GHGRP Facility Name	GHGRP Facility Name
0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 5: Auto-Calculated No Data Entry Required						
Non-GHGRP T&S Facility						
Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name	Non-GHGRP Facility Name
0.00	0.00	0.00	0.00	0.00	0.00	0.00





Documentation Simplification: References via Hyperlinks

- “GHGRP Methodology References” and “Description of Quantification Method(s)” moved to a new tab.

- Hyperlinks added in the GHGRP and Non-GHGRP worksheets to replace the full text.

Methodology Descriptions for Transmission and Storage - GHG

	GHGRP Methodology Reference	Description of Quantification Method(s)
	40 CFR 98.233(i)(1)	Subpart W – Calculation method for unit engineering estimates. Starting for 2025 segment.
ias	40 CFR 98.233(i)(2)	Subpart W – Calculation method using total isolation valves and the pressure and temperature
	40 CFR 98.233(i)(3)	Subpart W – Calculation method using direct measurements For the facilities not subject to reporting used. This alternate calculation method unique physical volumes as calculated for
	40 CFR 98.233(i)(1)	Subpart W – Calculation method for unit engineering estimates. Starting for 2025 segment.

Intensity | Emission Factor References | **GHGRP Ref & Methodology** | + | : | ◀

Section 1. Transmission & Storage Segm

Emissions Source	GHGRP Methodology Reference	Description of Quantification Method(s)
Compressors, Centrifugal	GHGRP Reference	Description
Compressors, Reciprocating	GHGRP Reference	Description
Crankcase Vents	GHGRP Reference	Description
Dehydrator Vents, Glycol	GHGRP Reference	Description
Dehydrator Vents, Desiccant	GHGRP Reference	Description
Equipment Leaks – Transmission Compression	GHGRP Reference	Description
Equipment Leaks – Underground Natural Gas Storage Stations and LNG Storage	GHGRP Reference	Description
Equipment Leaks-Natural Gas Transmission Interconnect Metering-Regulation Stations	GHGRP Reference	Description
Equipment Leaks-Natural Gas Transmission Pipeline: Farm Tap/Direct Sale Metering-Regulating Stations	GHGRP Reference	Description



For questions or technical support, contact
NGSIsupport@slrconsulting.com

Complimentary help desk support available to AGA and EEI members
from January 14, 2026, through February 13, 2026.



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Do you
have any
questions?