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NGSI Version 3.0 Updates

Webinar for AGA and EEI member companies

January 2026

SLR

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 ≥ 500 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 ≥ 50 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, Distribution, and G&B 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):** 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.
  - **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, so that it is possible to enter “0”. This allows a user to prevent double counting with OLRE.

NGSI Version 2

Green cell indicates a calculation

Distribution Main Mileage (miles)	0.00
Average Service Length (feet)	90.00
Distribution Service Mileage (miles)	0.00
Distribution Pipeline Total Mileage (miles)	0.00

NGSI Version 3

Yellow cell indicates a manual activity data entry

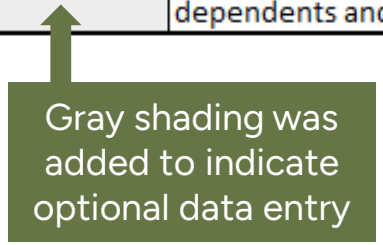
Distribution Main Mileage (miles)	0.00
Average Service Length (feet)	90.00
Distribution Service Mileage (miles)	0.00
Distribution Pipeline Total Mileage (miles) (exclude mileage with damages events >100 kg/hr)	

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



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

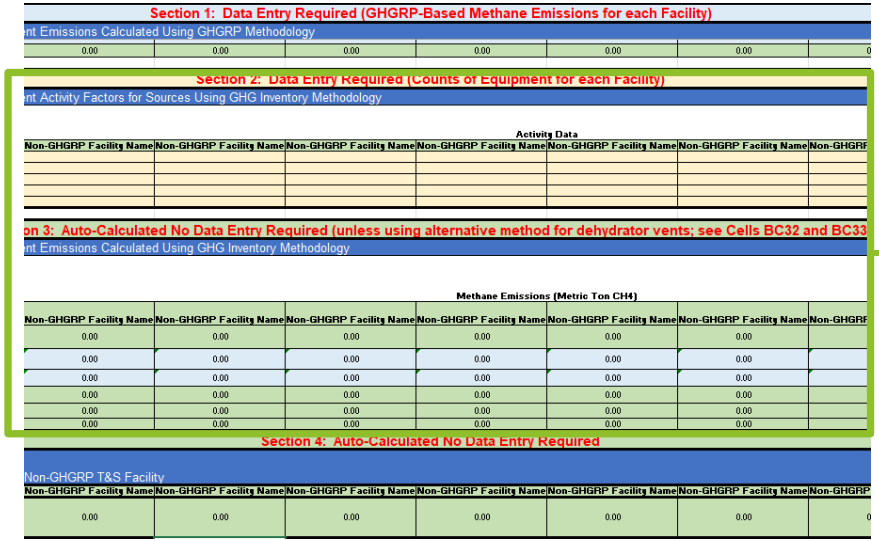
Section 1: Distribution Segment Emissions Calculated Using GHGRP Methodology			
Emissions Source			
	"GHGRP Facility Name"	**"GHGRP Facility Name"**	**"GHGRP Facility Name"**
Blowdown vent stacks			
Combustion Units			
Crankcase vents			
Distribution Mains (sum of emissions from all materials)			
Distribution 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

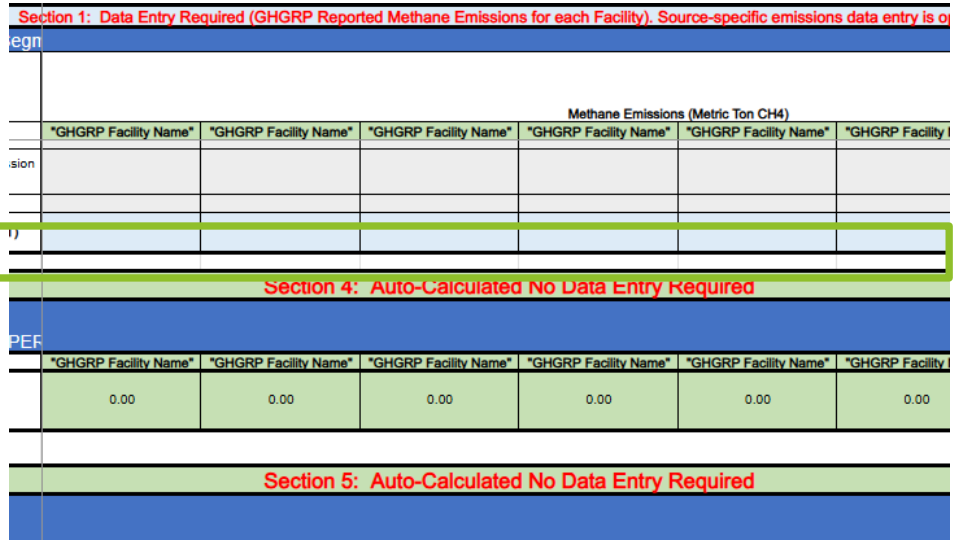
“Hiding” GHGi Calculations for Processing and T&S

- 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



NGSI Version 3



Documentation Simplification: References via Hyperlinks

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

Methodology Descriptions for Transmission and Storage - GHG

	GHGRP Methodology Reference	Description of Quantification Metho
	40 CFR 98.233(i)(1)	Subpart W – Calculation method for unic engineering estimates. Starting for 2025 segment.
ias	40 CFR 98.233(i)(2)	Subpart W – Calculation method using tl isolation valves and the pressure and te
	40 CFR 98.233(i)(3)	Subpart W – Calculation method using d For the facilities not subject to reporting used. This alternate calculation method unique physical volumes as calculated fr
	40 CFR 98.233(i)(1)	Subpart W – Calculation method for unic engineering estimates. Starting for 2025 segment.

tensity | Emission Factor References | GHGRP Ref & Methodology | +

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

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

Facility Capacity Update

Distribution, Processing, Gathering & Boosting, and Production templates have each been updated to accommodate up to 52 total facilities (26 GHGRP and 26 non-GHGRP facilities)

Enter Facility Names on the Company Information Tab

Enter Company Name ⇨	*Onshore Production Example Company*

Enter GHGRP Facility Names ⇨	*"GHGRP Facility Name"*
	"GHGRP Facility Name"
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Enter Non-GHGRP Facility Names ⇨	*"Non-GHGRP Facility Name"*
	"Non-GHGRP Facility Name"
	"Non-GHGRP Facility Name"
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	"Non-GHGRP Facility Name"
	"Non-GHGRP Facility Name"
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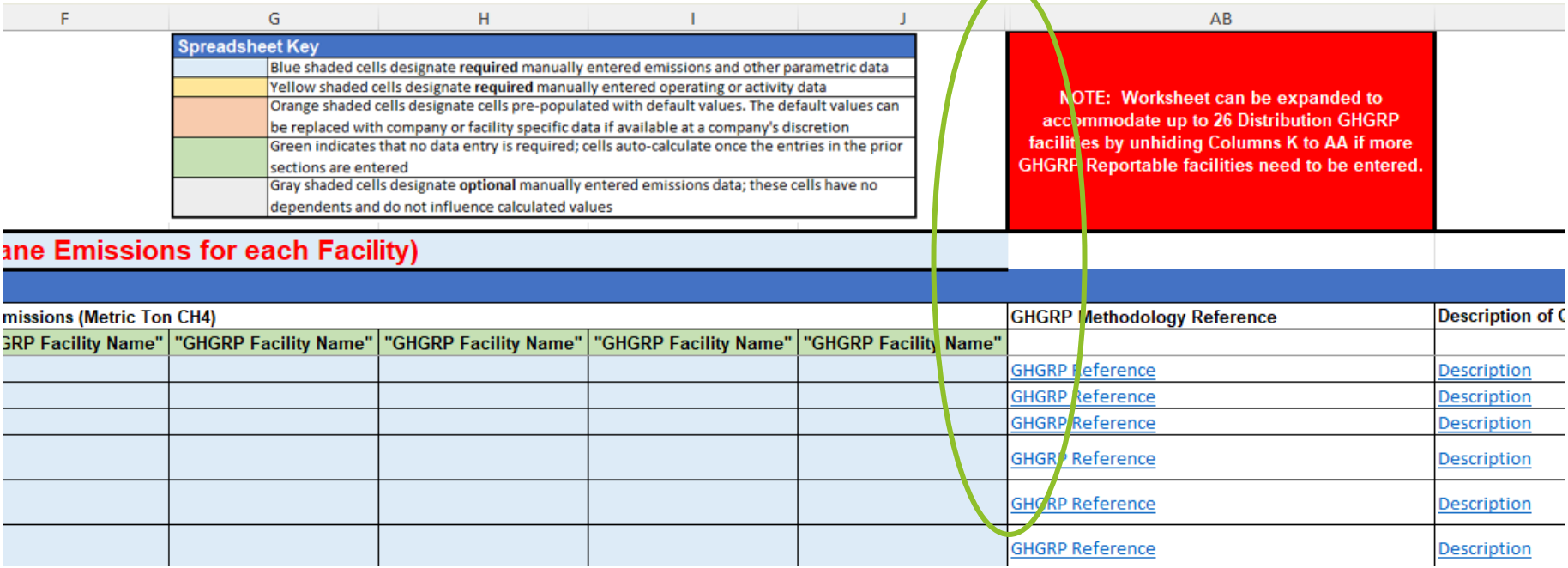
	"Non-GHGRP Facility Name"

Facility Capacity Update

Unhide Columns on the GHG Data Tabs to reveal additional Facilities



Spreadsheet Key	
	Blue shaded cells designate **required** manually entered emissions and other parametric data
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	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

NOTE: Worksheet can be expanded to accommodate up to 26 Distribution GHGRP facilities by unhiding Columns K to AA if more GHGRP Reportable facilities need to be entered.

ane Emissions for each Facility)

missions (Metric Ton CH4)					GHGRP Methodology Reference	Description of
GRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"	"GHGRP Facility Name"		
					GHGRP Reference	Description
					GHGRP Reference	Description
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					GHGRP Reference	Description

Making Sustainability Happen

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Do you have any questions?