



marcogaz

Monthly Methane Mondays: Marcogaz / OGMP reporting template

**Tobias van Almsick - MARCOGAZ WG Methane Emissions
member**

29th of March of 2021

Scope:

- Industry is managing methane emissions responsibly -> inform policy decisions
- Reporting of methane emissions following a defined standard
- Transparency, flexibility, collaboration, and best practice sharing
- Contributing to climate mitigation by defining reduction targets -> natural gas as bridge for energy transition

Need for a standardised reporting template was obvious:

- Upstream companies
- Mid- and downstream companies



Based on Marcogaz approach in alignment with “Assessment report”

- Includes: TSO, DSO, SSO and LNG
- Published on Marcogaz website in Nov. 2020
- In alignment with current work in CEN TC 234 / WG 14

Key features:

- Reporting of companies structural details and equity
 - Operated and non-operated assets, excluded assets
- Reporting of methane targets
 - Intensity based or absolute targets
- Reporting template for TSO, DSO, LNG and SSO following Marcogaz granularity
 - Individual reporting for compressor stations

The image shows a detailed reporting template table. At the top right, there is a legend with four colored boxes: red, yellow, green, and blue. The table itself is organized into several main sections, each with a blue header row. The rows are filled with data, and many cells are color-coded according to the legend. The table is very dense and appears to be a spreadsheet or a data entry form for reporting purposes.



Company Name:	Good Gas Company
Reporting Contact (Name):	John Doe
Position:	CEO
Address:	Methane Plaza 1
City, Postal/Zip code:	Berlin, 12345
Telephone:	+49 30 1234567
Fax:	+49 30 7654321
Email:	john.doe@ggc.com

Year of reporting	2020
--------------------------	------

Scope of reporting

- Transmission grid
- Underground gas storage
- LNG regasification terminal
- Distribution grid
- Compressor station (Transmission)

LIST OF OPERATED ASSETS/ VENTURES

Asset/ Venture Name	Country	Location	Operated?	Operator	% Equity	Comment/Additional information
Pipeline System ABC	Germany	Germany	Yes	Good Gas Company	100%	
Compressor Station XY	Germany	51.48985 N, 6.90876 E	Yes	Good Gas Company	100%	
Underground Storage AZ	Germany	55.57498 N, 7.87546 E	Yes	Good Gas Company	50%	Co-Proprietor: Bad Gas Company (50%)
Underground Storage YZ	Germany	53.87641 N, 9.12440 E	Yes	Good Gas Company	0%	Proprietor: Bad Gas Company (100%)

LIST OF NON-OPERATED ASSETS/ VENTURES

Asset/ Venture Name	Country	Location	Operated?	Operator	% Equity	Comment/Additional information
Pipeline System DCE	Germany	Germany	Yes	Bad Gas Company	100%	
Compressor Station BD	Germany	49.10127 N, 8.78321 E	Yes	Bad Gas Company	50%	

LIST OF EXCLUDED ASSETS/ VENTURES FROM THE REPORTING

Asset/ Venture Name	Country	Location	Operated?	Operator	% Equity	Operated by OGMP		Comment/Additional information
						2.0 Member?		
Pipeline System XYZ	Germany	Germany	Yes	Another Gas Company	100%	No		

OGMP 2.0 – Reporting on methane emission targets

ABSOLUTE METHANE TARGETS													
General Information about the target			Performance in the Reference or Base Year			Target Year			Reporting Year				Comments
Consolidation Basis (Operational Control, Equity)	Year in which the target was set	Reference / Base Year	Total emissions in scope of the target	Units of measure	Target Year (e.g. 2025)	Targeted reduction from Reference or Base Year, %	Absolute emissions in Target Year	Current Reporting Year	Total CH4 emissions	% Change from Reference or Base Year	Target status in reporting year		
Target 1								2020					This target includes ...
Target 2													
Target 3													

INTENSITY-BASED METHANE TARGETS															
General Information about the target						Base Year or Year in which target was set		Reporting Year							Comments
Consolidation Basis (Operational Control, Equity)	Target Value	Units	Denominator - Indicate the unit of activity to calculate (e.g. transported gas, regasified gas)	Target Year (e.g. 2025)	Year in which the target was set (e.g. 2018)	Base Year or Year in which the target was set (e.g. 2018)	Intensity figure (%)	Current Reporting Year	Intensity figure (%)	Numerator, total value	Numerator, units of measure	Denominator, total value	Denominator, units of measure	Target status in reporting year	
Target 1															This target includes ...
Target 2															
Target 3															

Methane Emission Targets can be:

- Absolute targets (with respect to the overall emissions of a company)
- Intensity based targets (with respect to a special structural figure, e.g. length of pipeline system)
- Definition of targets requires a base year and and a reporting year

OGMP 2.0 – The reporting section

COMMENTS (voluntary)		Levels 1, 2, 3, 4				Level 5	
		Methane	Level	Comments	Source for own data (please include one or more "X")	Methane	Comments
		kg/y	Please indicate the Level of the data: 1 / 2 / 3 / 4	Please feel free to provide additional information	Measurements EF Measurements EF Literature Calculation Modelling Estimation	kg/y	Please feel free to provide additional information
1.	Transmission						
	Total for transmission network						
1.1.	TSO - Pipeline Main lines						
1.1.a	Vents						
1.1.a.1.	Purging & venting (maintenance, process, commissioning&decommissioning)						
1.1.a.2.	Incident / Emergency vents						
1.1.a.3.	Other						
1.1.b	Incomplete combustion						
1.1.b.1.	Flaring						
1.3.	TSO - Reduction & regulating stations / Measurement stations / Valve stations / Consumer supply stations for metering and regulating						
1.3.a.	Fugitive Emissions						
1.3.a.1.	Connections (flanges, seals, joints)						

- Separate spreadsheet for TSO, DSO, SSO, LNG
- Accordings to Marcogaz approach / Assessment report
 - Additional spreadsheet for TSO’s compressor stations

OGMP 2.0 – The reporting section – different levels of reporting

COMMENTS (voluntary)	Activity Factors		Emission Factors		Levels 1, 2, 3, 4				Level 5	
	Data	Unit	Data	Unit	Methane	Level	Comments	Source for own data (please include one or more "X")	Methane	Level
					kg/y	Please indicate the Level of the data: 1 / 2 / 3 / 4	Please feel free to provide additional information	Measurements EF Measurements EF Literature Calculation Modelling Estimation	kg/y	Please add
1.	Transmission									
	Total for transmission network									0
1.1.	TSO - Pipeline Main lines									
1.1.a	Vents									
1.1.a.1.	Purging & venting (maintenance, process, commissioning&decommissioning)									
1.1.a.2.	Incident / Emergency vents									
1.1.a.3.	Other									
1.1.b	Incomplete combustion									
1.1.b.1.	Flaring									
1.3.	TSO - Reduction & regulating stations / Measurement stations / Valve stations / Consumer supply stations for metering and regulating									
1.3.a.	Fugitive Emissions									
1.3.a.1.	Connections (flanges, seals, joints)									
1.3.a.2.	Valves and control valves									
1.3.a.3.	Pressure relief valves									
1.3.a.4.	BD-OEL (blow-down open ended line)									
1.3.a.5.	OEL									

Total	Total methane emissions
Level 1	Emissions reported for a venture at asset or country level
Level 2	Emissions reported per type of methane emissions
Level 3	Emissions reported by detailed source type and using generic emission factors
Level 4	Emissions reported by detailed source type and using specific emission factors, measurements, simulation tools and detailed engineering calculations
Level 5	Emissions reported similarly to Level 4, but with the addition of site-level measurements

Guideline document provides further assistance

- Explaining the OGMP core rules
- Illustrates the use of the template
- Gives examples / screenshots

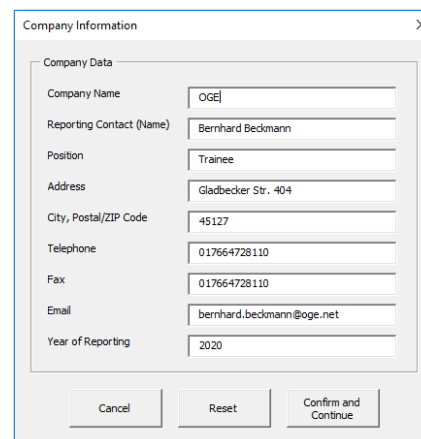
GUIDE FOR FILLING OUT THE METHANE EMISSIONS

REPORTING TEMPLATE

MID AND DOWNSTREAM

Future development

- Visual Basic based dialogues are guiding user
- Integration of non-operated assets
- Deduction and reporting of methane emission reduction targets
- Basis of a European / Worldwide database for emission factors

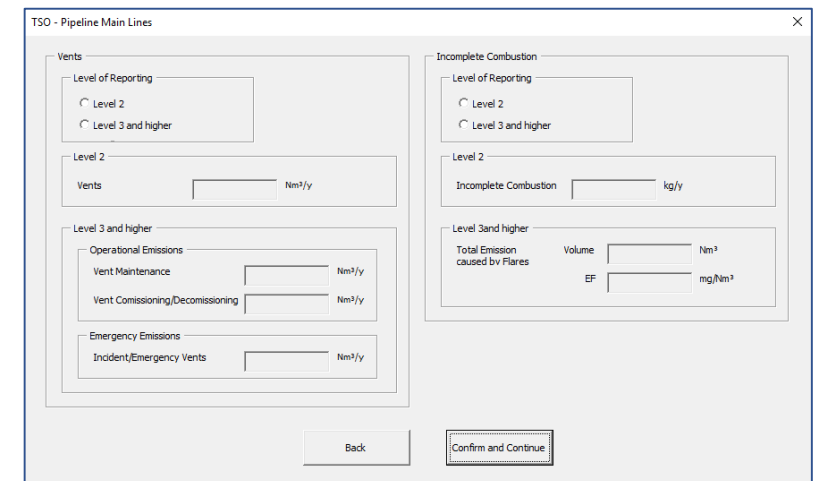


Company Information

Company Data

Company Name	OGE
Reporting Contact (Name)	Bernhard Beckmann
Position	Trainee
Address	Gladbecker Str. 404
City, Postal/ZIP Code	45127
Telephone	017664728110
Fax	017664728110
Email	bernhard.beckmann@oge.net
Year of Reporting	2020

Buttons: Cancel, Reset, Confirm and Continue



TSO - Pipeline Main Lines

Vents

Level of Reporting

Level 2

Level 3 and higher

Level 2

Vents Nm³/y

Level 3 and higher

Operational Emissions

Vent Maintenance Nm³/y

Vent Commissioning/Decommissioning Nm³/y

Emergency Emissions

Incident/Emergency Vents Nm³/y

Incomplete Combustion

Level of Reporting

Level 2

Level 3 and higher

Level 2

Incomplete Combustion kg/y

Level 3 and higher

Total Emission caused by Flares Volume Nm³

EF mg/Nm³

Buttons: Back, Confirm and Continue