New technical guidance documents & news related to OGMP 2.0

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What is OGMP 2.0?

- Comprehensive, measurement-based reporting framework
- Global coverage and scope (77 companies)
  - Upstream, midstream and downstream segments
  - Public, private and national oil companies
- Assets in scope represent over 50% of global oil and gas production in over 60 countries
- Over 20% of global natural gas transmission and distribution pipelines, over 10% of global storage capacity and nearly 15% of global LNG terminals
OGMP 2.0: the “gold standard” of methane reporting

OGMP 2.0 is the only comprehensive, measurement-based reporting framework for oil and gas industry.

Member companies report on all material sources of methane from both operated and non-operated assets across all segments of the value chain.

OGMP 2.0 provides assurance that member companies who reach Gold Standard are managing emissions responsibly.

EU Methane Strategy (Oct 2020) described OGMP 2.0 as “the best existing vehicle for improving measurement, reporting and verification capability in the energy sector”.

OGMP 2.0 serves as basis for the European Commission’s methane regulation (Dec 2021).
News about OGMP 2.0

• Second OGMP 2.0 reporting round: deadline 31 May
  Analysis of company data will be included in the second IMEO report to be released in the Fall

• Uncertainty & Reconciliation Guidance to be finalised and approved by Steering Group (March 2022)

• Partnership continues to grow rapidly with ongoing discussions with several interested companies

• OGMP 2.0 Experience Sharing Workshops:
  ➢ 22 March: Implementation Plans, Target Setting & Use of Reporting Templates
  ➢ Planned Next: L4 Measurement Technologies, NOVJs Engagement, Uncertainty & Reconciliation, etc.

New OGMP 2.0 members in the last months
1. **Technical Guidance Documents (to be finalized by March 2022)**
   - TGDs provide guidance on how to meet OGMP 2.0 reporting requirements for most common material sources
   - Developed by TGD Task force, integrating inputs from both mirror groups
   - Approved by Steering Group by consensus after 2 week no-objection period
   - Approved TGDs available on the OGMP 2.0 website: [https://www.ogmppartnership.com/templates-guidance](https://www.ogmppartnership.com/templates-guidance)

<table>
<thead>
<tr>
<th>Natural gas driven pneumatic controllers, pumps and measurement devices</th>
<th>Glycol dehydrators</th>
<th>Gas well hydraulic fracture completion venting/flaring</th>
<th>Incidents, emergency stops and malfunctions (under SG approval)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fugitive component and equipment leaks</strong></td>
<td>Un-stabilized liquid storage tanks</td>
<td>Flare efficiency</td>
<td>Level 1 and 2 reporting</td>
</tr>
<tr>
<td>Centrifugal compressor shaft seals (wet and dry seals)</td>
<td>Gas well liquids unloading</td>
<td>Incomplete combustion</td>
<td>Permeation</td>
</tr>
<tr>
<td>Reciprocating compressors</td>
<td>Oil well casinghead venting/flaring</td>
<td>Purging and venting, starts and stops and other process and maintenance vents (under SG approval)</td>
<td>General TGD (under SG approval)</td>
</tr>
</tbody>
</table>
TGD example: Flare Efficiency

Approved by OGMP 2.0 Steering Group in June 2021

Structure:

- **Brief description of the source**
  - Types of flares (elevated & ground flares)
  - What typical flare system consists of & its role
  - Types of flaring (continuous, intermittent or released in a discrete batch)

- **Scope boundaries**
  - All sources of emissions related to incomplete combustion of waste gas as it is combusted in either a flare, enclosed flare or combustor should be reported under Flaring.

- **Level 3 & 4 Quantification Methodologies**

- **Example Models**
**Flare Efficiency TGD – Level 3 Quantification Methodologies**

The following quantification methodologies are considered as providing Level 3 estimates:

- **Gas flow**
  - Directly measured
  - Mass balance

- **Gas composition**
  - Directly measured
  - Mass balance
  - Process simulation
  - Regulated specification

- **Destruction efficiency**
  - Assume 98%

- **Accepted QMs/those prescribed by local regulation** are considered as providing L3 estimated if they consider all 3 parameters.
Flare Efficiency TGD – Level 4 Quantification Methodologies

The following quantification methodologies are considered as providing Level 3 estimates:

- **Gas flow**
  - Continuous direct measurement
  - Mass balance
  - Process simulation

- **Gas composition**
  - Continuous direct measurement
  - Sample measurement

- **Destruction efficiency**
  - Measurement-based or determined via Representative Sampling
  - Engineering calculations
  - Models

- **Uncertainty guidance** provides guidances on how to develop a statistically representative sample.

- **Importance of operators' judgment for both L3/L4**: practitioners should use methodologies that best represent conditions & practices of their facilities + adjust estimation methods given potential differences in their systems.
Thank you

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https://www.ogmppartnership.com/