DIN ISO 6338-1:2025-12 (E)

Calculations of greenhouse gas (GHG) emissions throughout the liquefied natural gas (LNG) chain - Part 1: General (ISO 6338-1:2024)

Contents

Page

Foreword ..... **v**

Introduction ..... **vi**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **2**

4 Principles **3**
4.1 General 3
4.2 Relevance 3
4.3 Completeness 3
4.4 Consistency 3
4.5 Transparency 3
4.6 Accuracy 3
4.7 Conservativeness 3

5 GHG inventory boundaries **3**

6 Quantification of GHG emissions **4**
6.1 Identification of GHG sources and quantification approach 4
6.1.1 General 4
6.1.2 Emissions from fuel combustion 4
6.1.3 Emissions from flaring and venting 5
6.1.4 Fugitive emissions 6
6.1.5 Emissions associated with imported energy, utilities, and consumables 6
6.2 Calculation of GHG emissions 6
6.2.1 Requirements and guidance 6
6.2.2 GHG inventory 7
6.2.3 GHG quantification methods for fuel combustion 9
6.2.4 GHG quantification methods for flaring and venting 9
6.2.5 GHG quantification methods for fugitive emissions 10
6.2.6 Quantification methods for emissions from imported energy, utilities, and consumables 10
6.2.7 Relevant period and frequency 11
6.3 Preferred units 11
6.4 Allocation 11
6.4.1 Principles 11
6.4.2 Methodology 11
6.5 Carbon capture 12
6.5.1 Opportunities for carbon capture 12
6.5.2 Quantification of carbon capture benefit 13

7 GHG inventory quality management **13**
7.1 General 13
7.2 GHG emission calculation approach 14
7.3 Estimation of inventory uncertainties 14
7.4 Procedures for documentation and archiving 14
7.5 Quality control 14
7.6 Quality assurance 15

8 GHG reporting **15**
8.1 General 15
8.2 Additional information 15
8.3 GHG emission reduction 16
8.4 Carbon offset and emission trading 16
9 Independent review **16**
Annex A (informative) **Conversion factors for reference** **17**
Annex B (informative) **International initiatives on climate ambitions** **18**
Annex C (informative) **Carbon footprint (CFP) of e-methane** **20**
Bibliography **22**