ISO 6338:2023-05 (E)

Method to calculate GHG emissions at LNG plant

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 2

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

5 GHG inventory boundaries 4

6 QuantificationofGHGemissions 5
6.1 Identification of GHG sources and quantification approach 5
6.1.1 General 5
6.1.2 Emissions from fuel combustion 6
6.1.3 Emissions from flaring and venting 6
6.1.4 Fugitive emissions 7
6.1.5 Emissions associated with imported energy, utilities, and consumables 7
6.2 Calculation of GHG emissions 8
6.2.1 Requirements and guidance 8
6.2.2 GHG inventory 9
6.2.3 GHG quantification methods for fuel combustion 11
6.2.4 GHG quantification methods for flaring and venting 11
6.2.5 GHG Quantification methods for fugitive emissions 11
6.2.6 Quantification methods for emissions from imported energy, utilities, and consumables 12
6.2.7 Relevant period and frequency 12
6.3 Preferred units 13
6.4 Allocation 13
6.4.1 Principles 13
6.4.2 Methodology 13
6.5 Carbon capture 16
6.5.1 Opportunities for carbon capture: 16
6.5.2 Quantification of carbon capture benefit 16

7 GHG inventory quality management 16
7.1 General 16
7.2 GHG Emission Calculation approach 17
7.3 Estimation of inventory uncertainties 17
7.4 Procedures for documentation and archiving 17
7.5 Quality Control 17
7.6 Quality Assurance 18

8 GHG reporting 19
8.1 General 19
8.2 Additional information 19
8.3 GHG emission reduction 19
8.4 Carbon offset and emission trading 20

9 Independent review 20

Annex A (informative) Conversion factors for reference 21

Annex B (informative) International initiatives on climate ambitions 22

Annex C (informative) Example allocation calculation 24

Bibliography 30