ISO 19694-1:2021 (E)

Stationary source emissions — Determination of greenhouse gas emissions in energy-intensive industries — Part 1: General aspects

Contents

	Fore	eword	
	Intro	oduction	
1	Sco	Scope	
2	Nor	Normative references	
3	Terr	Terms and definitions	
4	Abb	Abbreviated terms	
5	Principles		
	5.1	Conoral	
		General	
	5.2	Relevance	
	5.3	Completeness	
	5.4	Consistency	
	5.5	Accuracy	
	5.6	Transparency	
6	Inventory boundaries		
	6.1	Organizational boundaries	
	6.2	Reporting boundaries	
	6.2.1	General	
	6.2.2	Establishing reporting boundaries	
	6.2.3	Direct GHG emissions (category 1)	
	6.2.4	Indirect GHG emissions (categories 2 to 6)	
	6.2.5	GHG from electricity use and on-site power production	
7	Perf	formance assessment (principle)	
8	General requirements for identifying, calculating and reporting of GHG emissions		
	8.1	Identification, calculation and reporting of GHG emissions	
	8.2	Content of the monitoring plan	
9	Determination of GHG emissions: general requirements		
	9.1	General	
	9.2	Mass balanced based method	
	9.3	Stack emission measurement-based method	
10	General requirements for sampling, analyses and laboratory competency		
	10.1	Sampling and analyses — Reference to standards or guidelines, methods and frequencies	
	10.2	Requirements for laboratories and evidence of their technical competence	
11	Gen	General information for the assessment of uncertainties	
12	Reference factors		
	12.1	Global warming potential (GWP) factors	
	12.2	Process emission factors	
	12.3	Electricity emission factors	
	12.4	Fuel emission factors	
	12.5	Riomass fuel emission factors	

12.6	Mixed biomass containing fuel emission factors
13	Consideration of biomass
13.1 13.2 13.3 13.4 13.5	Additional sources of information Biomass Reporting of emissions from biomass sources
14	Verification
Annex A	(normative) Minimum content of the monitoring plan
Annex B	(informative) List of biomass materials
Annex C	(informative) Requirements for the assurance of GHG data
Annex D	(informative) Example of an uncertainty calculation for yearly output determined from stack measurements (in accordance with EN 14181)
D.1	Sources of errors
D.2	Calculation of annual output
D.2.	1 Using directly measured values
D.2.	2 Using normalized values
D.2.	Propagation of random errors
D.2.	
D.2.	· · · · · · · · · · · · · · · · · · ·
D.2.	6 Examples
Annex E	(normative) Treatment of biogenic GHG emissions and CO2 removals
Annex F	(informative) Categories correspondence

Page count: 37