



EECS Rules Fact Sheet 24

Methodology for carbon footprint info on GO

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This Fact Sheet records the methodologies that AIB members use for determining the emission data on their EECS Certificates.

This GHG calculation method has several layers:

- 1) type of emissions CO₂ or CO₂ eq
- 2) method reference
- 3) life cycle components reference (emission inventory)
- 4) emission factor reference
- 5) additional info.

For each of these 5 categories, this Fact sheet contains a list of values as is being used and reported by AIB Members from time to time.

The result of these 5 categories is a code consisting of a letter and 2 numerical digits per the abovementioned information element, 11 digits in total.

- 1) Type of emissions: this parameter clarifies whether this involves CO₂ or all GHG emissions,

Code	Type of emissions
01	CO ₂
02	GHG emissions, stated in CO ₂ eq, including: <ul style="list-style-type: none"> ■ Carbon dioxide (CO₂) ■ Methane (CH₄) ■ Nitrous oxide (N₂O) ■ Fluorinated gases (CFC, HCFC, PFC, HFC, SF₆, NF₃).

- 2) The method reference: this sets out how various information inputs are processed together, as an overall methodology (e.g. setting out how to deal with the allocation of emissions from multiple inputs to one or multiple outputs),

Code	Method reference
00	Unspecified
01	ISO14067
02	IPCC methodology
03	ISO14067 combined with CertifHy allocation method from Inputs to Outputs of energy production
04	Direct Measurement
05	GHG Protocol
06	Bilan Carbon

07	UNFCCC - https://unfccc.int/ghg-inventories-annex-i-parties/2022
08	EcoInvent (https://ecoinvent.org/the-ecoinvent-database/system-models/)
09	Emissions from High-Efficient Cogeneration, calculated by subtracting the fuel for Cogeneration heat based on Harmonised Efficiency Reference Values for separate production of heat from the total Cogeneration fuel
10	National reference, specified in the Domain Protocol
11	REDII (EU) 2018/2001, annex V and VI
12	REDIII (EU) 2023/2413, annex V and VI
13	REDII (EU) 2018/2001, supplemented by Delegated Regulation (EU) 2023/1185
14	REDIII (EU) 2023/2413, supplemented by Delegated Regulation (EU) 2023/1185

3) Life Cycle stages included - Emission inventory reference: this shall set out which life cycle stages are included /excluded from the reported emissions

Code	Life Cycle stages included - Emission inventory reference
00	Unspecified
01	REDII annex V and VI
02	Scope I: Scope 1 emissions, or direct emissions, are GHG emissions physically produced by an activity: fuel combustion, process emissions, leakage of fluorinated gases, etc. These direct emissions are used to calculate national inventories such as those requested under the United Nations Framework Convention on Climate Change (UNFCCC).
03	Scope II: Scope 2 emissions, or indirect emissions of energy, correspond to consumption of a final energy for which emissions occur at the energy production site and not at the place of consumption. In practice this means electricity and heating/cooling networks.
04	Scope III: Scope 3 emissions refer to all indirect emissions from sources outside of the organizational boundaries of the entity but which are necessary for its activity.
05	National reference, specified in the Domain Protocol
06	REDIII annex V and VI

4) Emission factor reference: this parameter shall refer to a list of used emission factors

Code	Emission factor reference
00	Unspecified
01	REDII annex V and VI
02	IPCC emission factor statistics
03	UNFCCC - https://unfccc.int/ghg-inventories-annex-i-parties/2022
04	Bilan Carbon – French data set ADEME
05	EcoInvent data set
06	Dutch table of standard CO ₂ emission factors for energy production



07	Direct Measurement
08	International Energy Agency
09	National reference, specified in the Domain Protocol
10	REDIII annex V and VI

5) Additional info: this is a placeholder that allows to indicate further detail where relevant. (e.g. type of verification procedures, etc.)

Code	Additional info
00	Unspecified
01	National reference, specified in the Domain Protocol

Where possible, it is advised to issuing bodies to report national methodologies to be included in this EECS Fact Sheet, rather than mentioning on the certificate that the method category is Unspecified or than a Domain Protocol reference.

Example of how the methodology is displayed on a certificate, in accordance with section B4.6.21 GHG emissions of EECS Subsidiary Document 03 HubCom:

	Type of emissions	Method reference	Emission inventory reference	Emission factor reference	Additional info	Used by following Members
E	01	02	02	02	00	xxx , xxx

Stakeholders are welcome to reach out to the AIB secretariat should they observe methodologies used for displaying emissions related to GOs, which are currently not listed in this Fact Sheet.

	Type of emissions	Method reference	Emission inventory reference	Emission factor reference	Additional info	Used by following Members
Electricity	01	10	02	09	00	Elering, Estonia
Gas	02	00	01	01	00	Elering, Estonia
<i>Network-compatible gas from Renewable Sources</i>	02	11	06	10	00	VertiCer, the Netherlands



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<i>Hydrogen (RFNBO)</i>	02	12	06	10	00	VertiCer, the Netherlands
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