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**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Regulation (EU) 2018/2066. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

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## ANNEX IV

### Activity-specific monitoring methodologies related to installations (Article 20(2))

#### 21. DETERMINATION OF GREENHOUSE GAS EMISSIONS FROM CO<sub>2</sub> CAPTURE ACTIVITIES FOR THE PURPOSES OF TRANSPORT AND GEOLOGICAL STORAGE IN A STORAGE SITE PERMITTED UNDER DIRECTIVE 2009/31/EC

##### A. Scope

CO<sub>2</sub> capture shall be performed either by a dedicated installation receiving CO<sub>2</sub> by transfer from one or more other installations, or by the same installation carrying out the activities producing the captured CO<sub>2</sub> under the same greenhouse gas emissions permit. All parts of the installation related to CO<sub>2</sub> capture, intermediate storage, transfer to a CO<sub>2</sub> transport network or to a site for geological storage of CO<sub>2</sub> greenhouse gas emissions shall be included in the greenhouse gas emissions permit and accounted for in the associated monitoring plan. In the case of the installation carrying out other activities covered by Directive 2003/87/EC, the emissions of those activities shall be monitored in accordance with the other relevant sections of this Annex.

The operator of a CO<sub>2</sub> capture activity shall at least include the following potential sources of CO<sub>2</sub> emission:

- (a) CO<sub>2</sub> transferred to the capture installation;
- (b) combustion and other associated activities at the installation that are related to the capture activity, including fuel and input material use.

##### B. Quantification of transferred and emitted CO<sub>2</sub> amounts

###### B.1. Installation level quantification

Each operator shall calculate the emissions by taking into account the potential CO<sub>2</sub> emissions from all emission relevant processes at the installation, as well as the amount of CO<sub>2</sub> captured and transferred to the transport network, using the following formula:

$$E_{\text{capture installation}} = T_{\text{input}} + E_{\text{without capture}} - T_{\text{for storage}}$$

Where:

$E_{\text{capture installation}}$	= Total greenhouse gas emissions of the capture installation;
$T_{\text{input}}$	= Amount of CO <sub>2</sub> transferred to the capture installation, determined in accordance with Article 40 to 46 and Article 49.
$E_{\text{without capture}}$	= Emissions of the installation assuming the CO <sub>2</sub> were not captured, meaning the sum of the emissions from all other activities at the installation, monitored in accordance with relevant sections of Annex IV;
$T_{\text{for storage}}$	= Amount of CO <sub>2</sub> transferred to a transport network or a storage site, determined in accordance with Article 40 to 46 and Article 49.

In cases where CO<sub>2</sub> capture is carried out by the same installation as the one from which the captured CO<sub>2</sub> originates, the operator shall use zero for  $T_{\text{input}}$ .

In cases of stand-alone capture installations, the operator shall consider  $E_{\text{without capture}}$  to represent the amount of emissions that occur from other sources than the CO<sub>2</sub> transferred to the installation for capture. The operator shall determine those emissions in accordance with this Regulation.

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In the case of stand-alone capture installations, the operator of the installation transferring CO<sub>2</sub> to the capture installation shall deduct the amount  $T_{input}$  from the emissions of its installation in accordance with Article 49.

#### B.2. *Determination of transferred CO<sub>2</sub>*

Each operator shall determine the amount of CO<sub>2</sub> transferred from and to the capture installation in accordance with Article 49 by means of measurement methodologies carried out in accordance with Articles 40 to 46.

Only where the operator of the installation transferring CO<sub>2</sub> to the capture installation demonstrates to the satisfaction of the competent authority that CO<sub>2</sub> transferred to the capture installation is transferred in total and to at least equivalent accuracy, may the competent authority allow that operator to use a calculation-based methodology in accordance with Article 24 or 25 to determine the amount  $T_{input}$  instead of a measurement-based methodology in accordance with Article 40 to 46 and Article 49.

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**Changes and effects yet to be applied to :**

- Regulation amendment to earlier affecting provision S.I. 2020/1265, Sch. 4 by [S.I. 2020/1557 art. 35\(3\)-\(8\)](#)
- Regulation amendment to earlier affecting provision S.I. 2020/1265, Sch. 4 by [S.I. 2021/1455 art. 22\(2\)-\(9\)](#)
- Regulation amendment to earlier affecting provision S.I. 2020/1265, Sch. 4 by [S.I. 2022/1173 art. 13](#)
- Regulation amendment to earlier affecting provision S.I. 2020/1265, Sch. 4 by [S.I. 2023/850 art. 8\(2\)](#)
- Regulation amendment to earlier affecting provision S.I. 2020/1265, Sch. 7 para. 13 by [S.I. 2022/1173 art. 17\(3\)](#)
- Regulation modified by [S.I. 2020/1265 art. 24Sch. 4](#)
- Regulation modified by [S.I. 2020/1265 Sch. 7 para. 13](#)
- Regulation modified by 2019 c. 1, s. 77(4) (as substituted) by [2020 c. 14 Sch. 12 para. 7\(3\)](#)
- Regulation power to amend conferred by 2019 c. 1, ss. 76, 77 (as amended) by [2020 c. 14 Sch. 12 para. 4\(4\)\(b\)\(i\)7\(2\)\(b\)](#)
- Regulation power to amend conferred by 2019 c. 1, ss. 76, 77 (as amended) by [2020 c. 14 Sch. 12 para. 5\(b\)7\(2\)\(b\)](#)
- Regulation restricted by [S.I. 2020/1265 Sch. 8 para. 5\(3\)](#)