

ISO 20423:2025-06 (E)

Carbon footprint for seafood - Product category rules (CFP-PCR) for macroalgae

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
3.1 Quantification of the carbon footprint of a product	1
3.2 Products, product systems and processes	2
3.3 Data and data quality	5
3.4 Greenhouse gases	5
3.5 Waste, storage and transport	5
4 Calculation and communication requirements	6
5 Methodological requirements	6
5.1 General	6
5.2 Functional unit or declared unit	6
5.3 Principles of data and methodological reporting	7
5.4 System boundaries	7
5.4.1 General	7
5.4.2 The cut-off criterion: General rule for what can be excluded from the carbon footprint	8
5.4.3 General processes that can be excluded	9
5.4.4 System boundaries for waste	9
5.4.5 Use of recycled materials	9
5.4.6 Capital investments	9
5.4.7 System boundaries for farming	9
5.4.8 System boundaries for harvesting	10
5.4.9 System boundaries for processing	11
5.4.10 System boundaries for distribution to dealers	12
5.4.11 System boundaries for final consumption	13
5.5 Data requirements	13
5.5.1 General	13
5.5.2 Rules for data sampling	14
5.5.3 Data on electricity	14
5.5.4 Data on fuel	14
5.5.5 Geographical delimitation	14
5.5.6 Time delimitation	14
5.5.7 Validation of data	14
5.5.8 Transport calculation rules	14
5.6 Allocation	15
5.7 Impact assessment	15
5.8 Interpretation	15
5.9 Fossil and biogenic carbon	16
5.10 Communication of carbon footprints for macroalgae	16
5.10.1 General	16
5.10.2 Details about the producer	16
Annex A (informative) Example of data collection in the calculation of the carbon footprint of macroalgae products	17

Annex B (informative) Additional information for farming nutrients accounting through elemental mass balances of macroalgae	18
Annex C (informative) Example of mass allocation for kelp co-product processing	21
Annex D (informative) Example of LCA dried <i>Porphyra yezoensis</i> value-chain modelling	22
Annex E (informative) Example of LCA ground seaweed value-chain modelling	24
Bibliography	25