

ISO 52000-3:2023-03 (E)

Energy performance of buildings - Overarching EPB assessment - Part 3: General principles for determination and reporting of primary energy factors (PEF) and CO₂ emission coefficients

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols, subscripts and abbreviated terms	4
4.1	Symbols	4
4.2	Subscripts	4
4.3	Abbreviated terms	4
5	General description of the methods and choices	5
5.1	Basic principles of the assessment methods	5
5.1.1	Primary energy factors (PEF)	5
5.1.2	CO ₂ emission coefficient	7
5.1.3	CO ₂ emission coefficient for an exported energy carrier cr	7
5.1.4	Assessment boundary	7
5.1.5	Origin of delivered energies	8
5.1.6	Accounting methods	9
5.2	Short description of the choices	11
6	Set of different choices related to PEF and CO₂ emission coefficient	11
6.1	Choices related to the perimeter -- Geographical perimeter	11
6.2	Choices related to calculation conventions	12
6.2.1	Time resolution	12
6.2.2	Sources (time horizon) of the data used	12
6.2.3	Net calorific value (NCV) or gross calorific value (GCV)	13
6.3	Choices related to the data	13
6.3.1	Energy sources to be considered (available energy sources)	13
6.3.2	Type of CO ₂ emission coefficients	13
6.3.3	Conventions related to energy conversion	15
6.3.4	Conventions for PEF related to exported energy	15
6.4	Choices related to the assessment methodologies	16
6.4.1	Energy exchanges with other geographical perimeters	16
6.4.2	Calculation approaches for multisource generation mix	17
6.4.3	Allocation of multi energy output system	18
6.4.4	Life cycle method	18
Annex A (normative)	Template for reporting the choices in the calculation of PEF and CO₂ emission coefficient	20
Annex B (informative)	Examples of assessment boundaries	22
Annex C (informative)	Additional explanation and reporting	24
Bibliography		36