



PACT Methodology Checklists

PACT, April 2025





PACT Methodology Checklists



Chapter

PACT Methodology alignment checklist

How to use this chapter

Use this checklist to ensure any previously calculated Product Carbon Footprints PCFs comply with PACT Methodology Version 3



Use this checklist to understand how to update your PACT Methodology Version 2 aligned PCF to PACT Methodology Version 3





DAOT										
PACI										
PARTNERSHIP FOR CARBON TRANSPARENCY										
								•; •		
PAC										
Mathada										
Melhoac	nog									
Alignment checklist										
Alignment checklist		· · ·								
Alignment checklist	1 2 3 5 1 2 3 3 1 3 3 3 1 3 3 3 1 3 3 3	· · · ·								
Alignment checklist	1 2 2 3 1 2 3 3 1 2 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3	• •								
Alignment checklist	• • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •									
Alignment checklist	* 5 5 5 * 5 5 5 * 5 5 5 * 5 5 5 * 5 5 5 * 5 5 5 * 5 5 5 * 5 5 5 * 5 5 5									
Alignment checklist	··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ···									
Alignment checklist	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Alignment checklist	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Alignment checklist	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								Business	

This checklist is meant to help you assess how aligned your LCA process is to the PACT Methodology

This checklist in brief



What? This section contains a checklist which walks you through the key methodological elements of PACT Methodology



Why? You might be asked by your LCA data users to what extent your LCA process aligns with PACT Methodology requirements – this checklist hopes to facilitate this assessment



For whom? Any company that needs or wants to understand how aligned its LCA processes are to the PACT Methodology – some methodological knowledge will be helpful



How? The checklist includes a series of Yes-or-No questions – checking all boxes means full alignment

How to use this checklist

Preparation

Before going through the checklist, it will be helpful to have a clear understanding of your LCA approach and gather any useful documentation

Assessment

Go through each checklist item, marking whether your response aligns with PACT Methodology response

Results

Full alignment to PACT Methodology occurs when each of your responses matches the Methodology response

Follow-ups

Highlight and communicate any significant divergences

This checklist covers the 5 key methodological steps of the PACT Methodology

1. Standard Selection	2. Data Identification	3. Calculation	4. Data Reliability	5. Verification
The PACT Methodology includes a standard hierarchy whereby the most granular and specific standard applicable to a product should be used as the basis for calculation	The PACT Methodology requires primary activity data to be used, and prefers primary and supplier- specific emission factors while allowing for secondary emission factors	The PACT Methodology includes clear guidance on which elements to include or exclude in the calculation of a PCF as well as clear calculation rules, e.g., allocation	The PACT Methodology includes several data reliability metrics that need to be calculated and reported alongside a product carbon footprint	As a final step, carbon footprints or their calculation model conforming to the PACT Methodology need to be verified by a third-party provider



The PACT Methodology conformance checklist (1/4)

Step	Checklist item	PACT Response	Reference	Checked?
1. Standard Selection	Are you using the most specific PACT- aligned standard (e.g. PCRs or industry specific standards) available?	If PCRs or PACT-aligned industry standards exist, they should be used	Section 3.2.1	
2. Data Identification	Are you collecting data for all cradle- to-gate processes?	Cradle-to-gate is the boundary for the PACT Methodology ^a	Section 3.2.3	\bigcirc
	Are you using only primary activity data ?	Only primary activity data is allowed in PACT Methodology	Section 4.1.1	\bigcirc
	Are you using primary and supplier- specific emission factors whenever possible?	Primary and supplier-specific emission factors are preferred whenever feasible	Section 4.1.1	
	Do all secondary data sources meet the PACT Methodology?	PACT Methodology lists minimum quality requirements for secondary data sources	Section 4.1.1	\bigcirc





7

The PACT Methodology conformance checklist (2/4)

Step	Checklist item	PACT Response	Reference	Checked?	
3. Calculation	Do you have a recalculation policy ?	PACT Methodology requires a maximum validity period of up to 3 years, provided that no major changes ^a to the production process take place within the validity period	Section 3.2.3		
	Is the unit of analysis a physical unit?	Units of analysis need to be physical units (e.g., liter, kg, etc.). Piece is accepted if a mass unit is also exchanged. PCFs related to services have dedicated units (hour and mb.s)	Section 3.2.4	\bigcirc	
	Are you using the most recent characterization factors (AR6 GWP 100)?	PACT Methodology requires the most recent characterization factors ^b	Section 3.2.2		

a. A variance of 10% percent or more compared to the original PCF.

b. When a new IPCC AR report is released, the following reporting year shall be considered a grace period to give companies sufficient time to update their calculations and systems. During that period, companies may calculate and report PCFs that incorporate characterization factors from multiple versions of the IPCC AR report. Companies shall disclose what AR reports (multiple or single) are used in their PCF calculations



The PACT Methodology conformance checklist (3/4)

Step	Checklist item	PACT Response	Reference	Checked?
3. Calculation	Are you excluding a maximum of 3% of total cradle-to-gate PCF	Only 3% of total cradle-to-gate PCF may be excluded	Section 3.3.1.2	\bigcirc
	Are you avoiding allocation whenever possible, and following the PACT decision tree when not? ^a	Allocation should be avoided where possible through process subdivision or system expansion. If not possible, PACT decision tree should be followed	Section 3.3.1.4	
	Are you using the 'cut-off approach' for the allocation of emissions from recycling materials and energy recovery	PACT Methodology recommends the use of the 'cut- off approach' for the allocation of emissions from recycling materials and energy recovery	Section 3.3.2.2	\bigcirc
	Are you calculating and reporting biogenic and land sector related emissions and removals?	PACT Methodology requires to calculate and report PCF excluding biogenic CO ₂ uptake and PCF including biogenic CO ₂ uptake ^c	Section 3.3.2.4	

a. Allocation from Product Category Rule (PCR) and sector-specific guidance take precedence over PACT requirements as long as all safeguards are met.b. System expansion via substitution should only be used if there is a dominant, identifiable displaced product and production path for the displaced product based on sector consensus.

c. Biogenic and land sector related emissions and removals shall be calculated if: the biogenic carbon content of the product is higher than 5% or when Powered by biogenic and land sector related emissions are above the exemption rules (i.e., 3% of total cradle-to-gate PCF)





The PACT Methodology conformance checklist (4/4)

Step	Checklist item	PACT Response	Reference	Checked?
4. Data Reliability	Are you calculating the Primary Data Share (PDS)?	PDS ^a of the PCFs need to be calculated	Section 4.2.2	\bigcirc
	Are you calculating Data Quality Ratings (DQRs)?	DQRs ^a of emission factors and direct emissions data shall be calculated from 2027-onwards ^b following the PACT Methodology data quality assessment matrix for the following three indicators (technological-, geographical-, and temporal representativeness)	Section 4.2.3	
5. Verification	Are you using a third-party provider to verify your emission inventory?	Only independent third-party providers accepted	Section 5.3	\bigcirc
	Are you verifying your PCF calculations according to the roadmap set out in the PACT Methodology?	PCFs to be verified following the verification roadmap detailing assurance requirements over time	Section 5.3	







This checklist is meant to help you track changes from PACT Methodology V2 to V3



V2 Published January 2022





The PACT Methodology updates tracker – Emission accounting (1/5)

New section

٦	Горіс	Version 2	Reference	Version 3	Reference	Checked?
	Calculation of PCFs related to services or Service Carbon	N/A	N/A	In line with the GHG Protocol definition, product is defined as 'any physical good or service'.	Section 3.2.3 Section 3.3.1	\bigcirc
f	Footprints (SCFs)			To enable calculation and exchange of SCFs, 2 declared units may be used (Time in hour for desk-based services and Usage in Mb.s for IT- related services).		
				Calculating SCFs of desk-based and IT-related service follows same steps as for PCF calculation, outlined in Figure 6 in Section 3.3.		
E	Exemption rules	Possible exclusion of up to 5% of total cradle-to-gate PCF, and inclusion of all processes with >1% of total cradle-to-gate PCF.	Section 3.3.1.2	Possible exclusion of up to 3% of total cradle-to-gate PCF.	Section 3.3.1.2	



The PACT Methodology updates tracker – Emission accounting (2/5)

★ New section

Торіс	Version 2	Reference	Version 3	Reference	Checked?
Allocation Identification of waste vs co-products	An output is classified as a waste if it holds no economic value.	Section 3.3.1.4	For classification of waste vs co- product follow <u>EU waste directive</u> . See Figure 8 for more guidance.	Section 3.3.1.4	\bigcirc
Allocation	Decision tree: Section 3.3.1.4 Decision tree: Sec	Section 3.3.1.4	\bigcirc		
Allocation between co- products	Step 1: Avoid allocation		Step 1: Avoid allocation		\bigcirc
	Step 2: Prioritize PCRs and sectoral guidance		Step 2: Determine ratio of economic value		
	Step 3: Determine ratio of economic value		Step 3: Select most suitable allocation		
	Step 4: Select most suitable allocation		Prioritization of methods and standards from Section 3.2.1 to be applied first, i.e., PCRs and sectoral guidance take precedence over PACT requirements as long as all safeguards are met.		
			See Figure 8 and associated text for more guidance.		



The PACT Methodology updates tracker – Emission accounting (3/5)

New section

Powered by

15

Торіс	Version 2	Reference	Version 3	Reference	Checked?
Electricity & contractual instruments	N/A	N/A	Companies shall calculate emissions from electricity use including all GHG emissions from the life cycle of electricity supply system.	Section 3.3.2.3	\bigcirc
			Companies shall only use certificates from contractual agreements (e.g., RECs, GOs) that meet quality criteria outlined in Box 7.		
			Companies that do not use contractual instruments should use the most accurate emissions factor depending on electricity distribution method.		
			If emission factors only cover gate- to-gate emissions, they shall be complemented by upstream emission factor.		

PACT

The PACT Methodology updates tracker – Emission accounting (4/5)

New section

Торіс	Version 2	Reference	Version 3	Reference	Checked?
Biogenic and land sector related emissions and removals	 Biogenic emissions and removals shall be calculated and included as part of "PCF (incl. biogenic emissions and removals)" metric from 2025 onwards: Direct land-use change (dLUC) Land-management-related changes (including land carbon pools and other non-CO₂ emissions related to land management) Other biogenic GHG emissions not covered in dLUC and land management Biogenic CO₂ withdrawals GHG emissions associated with indirect land-use change (iLUC) (not included in PCF) emissions may be calculated and reported separately. 	Section 3.3.2.4	 Biogenic and land sector related emissions and removals shall be calculated if biogenic carbon content of product is higher than 5%, or when biogenic and land sector related emissions are above exemption rules Companies shall report two PCFs: PCF - excl. biogenic CO₂ uptake, and PCF - incl. biogenic CO₂ uptake The following categories shall be included in PCF: Land-use change emissions (LUC) Land management CO₂ emissions (required from 2027 onwards) Biogenic Non-CO₂ emissions Fossil – land management (mandatory from 2027 onwards) Land management CO₂ uptake (Only in PCF incl biogenic CO₂ uptake) To support transparency, Biogenic 	Section 3.3.2.4	
S PACT			product carbon content and land occupation are reported outside of PCF	Powered by	World Business Council Development 16

The PACT Methodology updates tracker – Emission accounting (5/5)

New section

	Торіс	Version 2	Reference	Version 3	Reference	Checked?
*	Technological CO ₂ capture, storage and use	N/A	N/A	Net CO ₂ stored via Carbon Capture and Storage (CCS) should be accounted for, if defined specific requirements described in Section 3.3.2.5 are met.	Section 3.3.2.5	\bigcirc
				The "cut-off approach" should be used for the allocation of emissions from Carbon Capture and Utilization (CCU)-derived product.		



The PACT Methodology updates tracker – Data integrity (1/1)

★ New section

Торіс	Version 2	Reference	Version 3	Reference	Checked?
Data reliability PSD and DQR timeline	Either PDS or DQR shall be calculated and reported until 2025. From 2025, both metrics shall be calculated and reported.	Section 4.2.1	PDS shall be calculated and reported DQR shall be calculated and reported from 2027 onwards ^a .	Section 4.2.1	\bigcirc
Data reliability PSD and DQR formula	Calculation based on PCF.	Section 4.2.2 Section 4.2.3	Calculation based on absolute PCF (excluding biogenic CO ₂ uptake).	Section 4.2.2 Section 4.2.3	\bigcirc
Data reliability Data assessment matrix	3 Data Quality Indicators (DQIs) (Technology-, Geography-, Temporal / Time representativeness) for emission factors. 2 DQIs (Completeness and Reliability) for activity data, ranking from 1 to 3.	Section 4.2.3	3 DQIs (Technology-, Geography-, Temporal /Time representativeness) for emission factors, ranking from 1 to 5.	Section 4.2.3	





The PACT Methodology updates tracker – Verification (1/1)

New section X

Торіс	Version 2	Reference	Version 3	Reference	Checked?
Verification	 Defined assurance and verification roadmap and evidence pack providing companies with guidance on the expected level of assurance at three distinct time horizons, including separate requirements for SMEs. Short-term (2023-2025): Assurance and verification at corporate level Medium-term (2025-2030): Assurance and verification at Representative product or PCF system (limited assurance) Long-term (2030 onwards): Assurance and verification at Representative product or PCF system (reasonable assurance) 	Section 5	 Defined verification roadmap providing companies with guidance on the expected level of verification at two distinct time horizons, including separate requirements for SMEs. Short-term (2025-2030): Verification of underlying methodology used by any tools (software, excel, platform etc.) to generate PCFs, called the 'PCF Calculation Model'. Long-term (2030 onwards): Certification of PCF Program, which builds on short term requirements and includes system governing how company generates and manages PCFs. 	Section 5	
S PACT				Powered by	World Business Council for Sustainable Development 19

Besides updates, the PACT Methodology v3 provides additional clarifications, please check below that you understood these properly

Торіс	Clarification	Reference	Checked?
Hierarchy of application	A clearer explanation in case of conflicting situation: Product Category Rule (PCR) takes precedence over PACT requirements as long as all safeguards are met. The same precedence applies for sector-specific guidance.		
	Additional clarification was added regarding safeguards and key PACT Methodology requirements that should be met or reported when PCRs or sector-specific guidance used.		
Scope and boundary	Outbound logistics ^a emissions are not part of PCF but are calculated and reported up to the point another company (e.g., customer) takes over (i.e., owns or pays for the outbound logistics).	Section 3.2	
Data sources and hierarchy	Clearer definitions of primary and secondary data (Table 9). A clearer description of illustrative best-base- and worst cases (Table 10)	Section 4.1	\bigcirc



PARTNERSHIP FOR CARBON TRANSPARENCY		a na abh an	
		a na	
a a a a a a a a a a a a a a a			
Thank youl		n an ad an san an ad an ar	
Inalik you:		e a la l	
Inank you:			
		1 1	
		1 1	
		1 1	
		1 1	
		$ \begin{bmatrix} 1 & 1 & 2 & 3 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4$	
		1 1	
		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Indicating youus Indicatin		Powered by	³⁶ 21