

PCF_InputFile_ef_rm_mapping

File link:

1. Purpose of the file:

This file is used to collect and centralise the mapping between raw materials and their corresponding Ecoinvent activity references (Activity_UUID / Product_UUID) used in Product Carbon Footprint (PCF) calculations for Syensqo.

For each combination of production year, site, and raw material, it records the linked Ecoinvent dataset, an optional SimaPro proxy, adjustment coefficients, transport PCF, and Data Quality Rating (DQR) sub-scores (technology, time, geography).

The data supports consistent environmental reporting and traceability of emission factor assignments across all Syensqo sites.

2. File Structure

2.1. List of tabs

Sheet Name	Description	Mandatory	Comment
Sheet1_TFS	Main data entry sheet. Maps each raw material / site combination to an Ecoinvent activity and records associated PCF parameters.	YES	Don't delete this sheet

2.2. Main columns description

SHEET: Sheet1_TFS

	Prod_Year	Site_Code	Site_Name	Material_Code	Sys_Material_Code	Material_Name	Activity_UUID_Product_UUID	SP_Proxy	Adj_coef	pcf_transport	dqr_technology	dqr_time	dqr_geography	Comment
Sample Data	2022	XCLDPL_8702	PCF_EXCLUDE_PLANT		WP1_400/128661	FATTY ACID BLEND TRC814 C8,C14 BU		07. Fatty acid (ID&MY) fatty acid production, from RBD palm kernel oil Cut-off, U_CIRAIG from Erasm			3	3	3	
Mandatory Field	Mandatory field; Must be filled	Mandatory field; Must be filled	Not mandatory field. If the field is filled, the values should be string	Not mandatory field. If the field is filled, the values should be string	Mandatory field; Must be filled. All lines without numbers after the "/" will be considered as an error	Not mandatory field. If the field is filled, the values should be string	Not mandatory field. Combination of these two fields being empty results to not importing the line nor giving out an error	Not mandatory field. If the field is filled, the values should be float	Not mandatory field. >=0	Not mandatory field. Float 1 to 5	Not mandatory field. Float 1 to 5	Not mandatory field. Float 1 to 5	Not mandatory field. Float 1 to 5	Not mandatory field.
Data type	Only String	Only String	Only String	Only String	Only String	string	string	string	float	Positive float (above 0)	float	float	float	String
Filled for which PCF is calculated	Year	SAP Site Code	SAP Site Name	SAP Raw Material Code for the specific Raw Material	SAP system and SAP Raw Material Code for the specific Raw Material	SAP Raw Material Name	Concatenation of fields Activity_UUID and Product_UUID taken from Ecoinvent datasource that acts as a key for the mapped Raw Material	Proxy of Raw Material taken from SimaPro	Coefficient specifying the concentration for the specific Raw Material	Product Carbon Footprint of the raw material transportation. It is expressed as KG Carbon /KG Product.	Data Quality Rating = measure of the data quality of the emissions in the footprint, number of 1-3, with 1 being the best possible score. Subcategory Technology	Data Quality Rating = measure of the data quality of the emissions in the footprint, number of 1-3, with 1 being the best possible score. Subcategory Time	Data Quality Rating = measure of the data quality of the emissions in the footprint, number of 1-3, with 1 being the best possible score. Subcategory Geography	Comments inserted by the data owner related to the value inputted
Comment														

3. Filling instructions

Field	Instructions
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Sheet1_TFS	<ul style="list-style-type: none"> • Complete all mandatory fields for every row. Rows with missing mandatory values will be rejected during upload. • Material_Code must follow the format <prefix>/<numeric suffix> (e.g. PF2_020/106928). Lines without numeric characters after the "/" will be treated as an error. • At least one of Activity_UUID_Product_UUID or SP_Proxy must be filled for a row to be imported. If both are empty, the row is silently skipped (no error is raised). • Activity_UUID_Product_UUID must be the concatenation of the Ecoinvent Activity UUID and Product UUID separated by "_". • pcf_transport must be 0 if provided. • dqr_technology, dqr_time, and dqr_geography must each be a float between 1 and 5 if provided. • Adj_coef should be a float, typically between 0 and 1, reflecting the material concentration factor. • Do not modify, add, or remove columns. • Do not leave mandatory fields blank. • Duplicate rows will be rejected during data upload. Ensure no duplicate entries are present in the sheet.
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4. Maintenance best practices

Please comply with the following instructions to maintain the file:

- Always keep the original structure (do not add/remove columns without approval).
- Update only the necessary fields.
- Save a backup copy before any major changes.
- Respect data confidentiality.

5. Contact Points

File owner	Hubert Sizaret
Technical Support	Camille Faure Laëtitia Arantes

The data owner will receive the error file by email and will be responsible for making any necessary manual corrections. For any questions or issues, please contact the responsible person listed above. Please strictly follow these guidelines to ensure data quality and reliability.