

# Functional Documentation

Computations in background are performed:

Every week day at 1pm : load of only [Advanced\\_GBU\\_Access\\_rights\\_PROD\\_](#)

Weekly

- every Tuesday evening: Validation + Cerise load + calculation based on input flat files
- every Thursday evening: Validation only

Monthly every 14th of each month for a full load (all sources) + validation + calculation

## Data source and Lineage

Data source mapping and lineage, DPL creation:  
sheet **DataLineage\_BQ\_2025 03 Data Knowledge PCF - Sustainability IT11672**  
Looker Studio <https://lookerstudio.google.com/s/u7OZwfhNNSM>

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dat<br>a<br>sour<br>ces      | Filters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SAP<br>ZW<br>EH<br>ST0<br>98 | Filter to keep only ( <b>authorization_group</b> IN (ALL , ZZ_BU_00 , ZZ_RM_SCO , ZZ_RM_ECO )<br>OR <b>business_unit</b> IN (CS, SP, PA, CM, TS, OG) )<br><br>and <b>material_code</b> not equal to ""<br><br>For info to get the commercial product code (basic_material or material_group for SPP)(case w<br>hen source_system like 'SP' then material_group else basic_material end) as specification_code<br>JOIN DM.DIM_sap_zwehst098 AS sapON sap.source_system_material_name = material_code |

This file can be found here: [Functional documentation links](#)

Overview on the calculation flows : [PCF Calculation Functional documentation](#)

Flat File management

- [Flat Files Links to Input Data for PCF](#)
- [Flat File management documentation](#) **DOCUMENTATION!**
- [PCF\\_InputFile\\_Specifications](#) (data quality check of input files)
- [How-to update Ecoinvent - How to get and extract the useful dataset from Ecoinvent files](#)

## Data Preparation

- [Fact\\_BOM](#) and [FACT\\_bom\\_spp](#)
- [New CALC BOM WP1](#)
- [WRK\\_imep\\_site\\_net\\_output](#)
- [Tables: WRK\\_finished\\_product\\_std\\_qty, DIM\\_plant\\_site, DIM\\_conversion\\_unit](#)
- [PF1 Intermediates BOM/IMEP: FACT\\_BOM\\_imep & FACT\\_CALC\\_BOM\\_imep for PF1](#)

New [FACT\\_imep](#) from [ODS.imep\\_conso](#) (without order\_type for WP2) and [ODS\\_imep\\_pf2](#) (with order type for PF2):

## Validation process

- [PA-933 Implement PCF validation flow](#)

## Historization & Flat files mgt including Ecoinvent

- [PCF Historization rules](#)
- [Functional historisation: Rules definition and implementation related to the functional process \(from inputs - Flat Files\)](#)

## Scope 3.1 Raw Materials

**Flat Files Links to Input Data for PCF**

## FOR PROD. ENV. PROD

### 3.4.1 Configuration PROD

[Advanced\\_GBU\\_Access\\_rights\\_PROD\\_](#)

[PCF\\_InputFile\\_Master\\_Unit\\_conversion\\_PROD\\_](#)

[Config\\_default\\_PDS\\_DQR\\_PROD\\_](#)  
*TFS compliant*

[EcoinventData\\_for\\_GCP\\_PROD](#)

[GEO\\_GCP](#) (Geographical classification master table)

[AO\\_GCP](#) (Activities overview from the Database Overview xls file)

[LCIA\\_GCP](#) (Emissions factors by activity)

### 3.4.2. RM-Mapping PROD

[PCF\\_InputFile\\_ef\\_supplier\\_PROD\\_](#)  
*TFS compliant*

[PCF\\_InputFile\\_ef\\_rm\\_mapping\\_PROD\\_](#)  
*TFS compliant*

[PCF\\_InputFile\\_sp\\_proxy\\_PROD\\_](#)  
*TFS compliant*

[PCF\\_InputFile\\_Substitution\\_BOM\\_Imep\\_PROD\\_](#) **NEW**

[PCF\\_InputFile\\_ef\\_wastes\\_sites\\_PROD\\_](#)

[PCF\\_InputFile\\_ef\\_transp\\_routes\\_PROD\\_](#)

[PCF\\_InputFile\\_energy\\_mapping\\_PROD\\_](#)

Consistency checks over Energy mapping: [cerise-em-imep-bom-consistency](#)

[PCF\\_InputFile\\_Energy\\_contribution\\_correction\\_PROD\\_](#)

[Biogenic\\_Master\\_GCP](#) **!! one file for each GBU**

[Syensqo\\_PCF\\_InputFile\\_biogenic\\_masterdata\\_CS\\_PROD\\_](#)

[Syensqo\\_PCF\\_InputFile\\_biogenic\\_masterdata\\_SPP\\_PROD\\_](#)

[Syensqo\\_PCF\\_InputFile\\_biogenic\\_masterdata\\_TS\\_PROD\\_](#)

- Suppliers / Secondary ( Proxy or Ecoinvent ) Emission Factor :

Initial calculation of ef\_rm for Scope 3.1 [Calculation EF at Raw Material Level](#)

>>>> Updated with [PA-2551 | Update Scopes 3.1 and 3.4 to comply with TFS guidelines](#)

Updates from primary and secondary data import up to  
FACT\_CALC\_scope\_3\_1\_3\_4\_upstream\_estimated

Details ont secondary data sources (full and bom to Reporting 3.1): [PA-2180 | Corporate Reporting 3.1 detailed specification](#)

- CO2 Contribution calculations: [FACT\\_CALC\\_scope\\_3\\_1\\_3\\_4\\_upstream\\_estimated](#) [OLD]

>>>> replaced by last part in [PA-2551 | Update Scopes 3.1 and 3.4 to comply with TFS guidelines](#)

- Quality KPI : Raw material emission factor coverage: [PA-353 RM\\_Mapped\\_pc](#)
- Quality KPI (BOM\_balance):  
For Novecare: [PA-1808 | Compute BOM Balance WP1](#)  
For Specialty Polymers: [PA-1812 | Compute BOM Balance PF1](#)  
Add bom balance KPI in PCF and Biogenic validation flat files: [PA-1940 | Add Bom\\_Balance KPI in PCF and Biogenic validation flat files](#)

[Syensqo\\_PCF\\_InputFile\\_biogenic\\_masterdata\\_OG\\_PROD\\_](#)

[Syensqo\\_PCF\\_InputFile\\_biogenic\\_masterdata\\_PA\\_PROD\\_](#)

[Syensqo\\_PCF\\_InputFile\\_biogenic\\_masterdata\\_CM\\_PROD\\_](#)

[PCF\\_InputFile\\_manual\\_biogenic\\_PROD\\_](#)

[PCF\\_InputFile\\_manual\\_pcf\\_PROD\\_](#)

### 3.4.3 Validation Process PROD

[Syensqo\\_PCF\\_InputFile\\_validation\\_pcf\\_PROD\\_](#)

[Syensqo\\_PCF\\_InputFile\\_validation\\_biogenic\\_PROD\\_](#)

## Scope 3.1 Corporate Reporting

- Conversion rates for quantities from AUOMCMAT200: [PA-2231 | Create DIM\\_conversion\\_uom table](#)
- Conversion rates for quantities from MARM: [PA-2230 | Create DIM\\_conversion\\_marm table](#)
- **NEW** Quantities conversion in FACT\_purchasing for Scope 3.1 reporting: [PA-2249 | Convert quantities from unit to KG in FACT\\_purchasing](#)
- **NEW** Global specification for corporate reporting 3.1: [PA-2180 | Corporate Reporting 3.1 detailed specification](#)
- SQL queries for DPL view (MVP): [Queries for V\\_DIM\\_RM\\_reporting\\_3\\_1](#)
- View and export from Tableau: [PA-2165 | Tableau • Create an export for RM 3.1 Reporting](#)

## Scope 3.4 upstream Transport

- Integrate scope 3.4 upstream transport in scope 3.1 data flow [PCF Scope Corrections](#)

## Scope 1, 2 and 3.3 Energy

- CO2 Contribution calculations: [FACT\\_CALC\\_scope\\_1\\_2\\_3\\_3\\_wp1\\_estimated](#) modified by following one:

### Energy type, activity code and vector mapping WP1

- Apply Energy quantity corrections on BOM [PCF Scope Corrections](#)
- **SPP Allocation for pf2 source system**

**V.2 Allocate PF1 energy CO2 contribution to Intermediate Products** Excluded Cost Objects Flat file: [Energy SPP // Excluded Cost Objects flat file](#)

## Scope 3.4 internal transportation

- CO2 Contribution calculations: [PA-172 Scope 3.4 intermediates on standard routes](#)
- Quality KPIs: [PA 418 - KPI Missing route FP and Missing Intermediate at FP Level](#)
- SPP calculations [FACT\\_CALC\\_transportation\\_scope\\_3\\_4\\_interm\\_estimated\\_spp](#) [New]  
[FACT\\_CALC\\_transportation\\_scope\\_3\\_4\\_interm\\_estimated\\_spp](#)

## Scope 3.5 Wastes & Scope 1 other GHGs

- CO2 Contribution calculations: [FACT\\_CALC\\_scope\\_3\\_5\\_1ghg\\_wp1\\_estimated](#)
- Site net production Qty [IMEP\\_site\\_net\\_output](#)
- Wastes Emission Factors at site level [PCF Scope Corrections](#)
- **SPP Waste:** [\[ New \] FACT\\_CALC\\_scope\\_3\\_5\\_1ghg\\_pf1\\_estimated\\_spp](#)

## Biogenic

- Biogenic masterdata flat file extraction updates: [PA-2590 | Update Biogenic Masterdata flat file extraction](#)
- [PA-298 Biogenic Carbon Content](#)
- Flat file from R&I Novacare for [PA-298 Biogenic Carbon Content](#) Biogenic data of Raw Materials: [Biogenic\\_content - PCF check](#) tab Priority List - top products
- [PCF Biogenic Talend generation file](#)
- Quality KPI (TCC\_rm\_mapped):  
For Novacare: [PA-1826 | Compute raw materials mapping on TCC for Novacare WP1](#)  
For Speciality Polymers: [PA-1834 | Compute raw materials mapping on TCC for SpP PF1](#)
- Ingest manual biogenic: [PA-1835 | Ingest manual calculated biogenic KPIs](#)

**NEW // Remove commercial product aggregations from the final tables:** [PA-2634 | Remove Commercial Product aggregation from Biogenic tables](#)

## Fact\_Pcf

- PCF calculation : [Fact\\_pcf FACT\\_pcf AGGREGATION SPECIFICATION\\_WP1 & PF1](#)
- Prod com aggregation : [Prod com PCF and Biogenic](#) /\ NOT ANYMORE PROD COM AGGREGATION
- PDS / DQR [PA 467 - PDS and DQR](#)
- Product type SIMPLE / COMPLEX / local / multiple output Table : [Product\\_Type\\_Simple](#)
- Table : [Product\\_Type\\_Simple\\_SPP](#)
- Ingest manual PCF: [PA-1926 | Ingest manual calculated PCF KPIs](#)

### Small enhancements:

- Align meta\_run\_id and updated date in final result table: [PA-1779 | Align meta\\_run\\_id and updated\\_date in FACT\\_pcf table current history](#)
- Set commercial products aggregations to *null*: [PA-1781 | Set to NULL the commercial product aggregated KPIs](#)

## Data Quality

- [SCD type1 & type2 deletion status](#)

## DPL specifications

- [DPL tables specifications](#)