

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 a sour ces	Filters
SAP ZW EH ST0 98	Filter to keep only (authorization_group IN (ALL , ZZ_BU_00 , ZZ_RM_SCO , ZZ_RM_ECO) OR business_unit IN (CS, SP, PA, CM, TS, OG)) and material_code not equal to "" For info to get the commercial product code (basic_material or material_group for SPP)(case w hen source_system like 'SP' then material_group else basic_material end) as specification_code 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 Novecare 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 Novecare: [PA-1826 | Compute raw materials mapping on TCC for Novecare 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](#)