The global point source database is composed of five CSV files:

1. Catalogue of power plants and associated profiles (coco2\_ps\_catalogue\_v1.1.csv)

|  |  |
| --- | --- |
| **Field of information** | **Description** |
| ID | Unique identifier assigned to each unit (CoCO2\_xxxxx) |
| ISO3 | Country where the unit is located (identified with the three-letter country code defined in ISO 3166-1) |
| fuel | Main fuel category associated to each unit (coal, natural gas, oil, biomass, waste) |
| latitude | Latitude (in degrees) |
| longitude | Longitude (in degrees) |
| co2\_emis\_ty | CO2 annual emissions associated to each unit (in t/year) |
| nox\_emis\_ty | NOx annual emissions associated to each unit (in t/year), expressed as NO2 |
| co\_emis\_ty | CO annual emissions associated to each unit (in t/year) |
| sox\_emis\_ty | SOx annual emissions associated to each unit (in t/year) |
| ch4\_emis\_ty | CH4 annual emissions associated to each unit (in t/year) |
| ID\_MonthFact | Monthly temporal profile unique identifier (FM\_xxx). The identifiers are cross-referenced with the monthly temporal CSV file where the numeric profiles are stored |
| ID\_WeekFact | Weekly temporal profile unique identifier (FW\_xxx). The identifiers are cross-referenced with the weekly temporal CSV file where the numeric profiles are stored |
| ID\_HourFact | Hourly temporal profile unique identifier (FH\_xxx). The identifiers are cross-referenced with the hourly temporal CSV file where the numeric profiles are stored |
| ID\_VertProf | Vertical profile unique identifier (VP\_xxxxx). The identifiers are cross-referenced with the vertical CSV file where the numeric profiles are stored |

1. Monthly temporal profiles database (coco2\_ps\_monthly\_profiles\_v1.1.csv)

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| --- | --- |
| **Field of information** | **Description** |
| ID\_MonthFact | Monthly temporal profile unique identifier (FM\_xxx). The identifiers are cross-referenced with the catalogue of power plants. |
| Jan - Dec | Monthly weight factor associated to each month [0-12] |
| tot | Total sum of the monthly weight factors [12 for all cases] |

1. Weekly temporal profiles database (coco2\_ps\_weekly\_profiles\_v1.1.csv)

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| --- | --- |
| **Field of information** | **Description** |
| ID\_WeekFact | Weekly temporal profile unique identifier (FW\_xxx). The identifiers are cross-referenced with the catalogue of power plants. |
| Monday-Sunday | Weekly weight factor associated to each day of the week [0-7] |
| tot | Total sum of the weekly weight factors [7 for all cases] |

1. Hourly temporal profiles database (coco2\_ps\_hourly\_profiles\_v1.1.csv)

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| --- | --- |
| **Field of information** | **Description** |
| ID\_HourFact | Hourly temporal profile unique identifier (FH\_xxx). The identifiers are cross-referenced with the catalogue of power plants. |
| H0 – H23 | Hourly weight factor associated to each hour of the day [0-24]. Expressed in local time. |
| tot | Total sum of the hourly weight factors [24 for all cases] |

1. Vertical profiles database (coco2\_ps\_vertical\_profiles\_v1.1.csv)

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| --- | --- |
| **Field of information** | **Description** |
| ID\_VertProf | Vertical profile unique identifier (VP\_xxxxx). The identifiers are cross-referenced with the catalogue of power plants. |
| r0\_100 – r1500 | Weight factor associated to each vertical layer [0-1]. Distribution is defined across 16 vertical layers (from 0m up to 1500m with breaks every 100m, and above 1500m) |
| tot | Total sum of the vertical profiles [1 for all cases] |