

Information Sheet

The PCAF Database is the ideal tool for bridging the gap between ambition and action, providing comprehensive emissions factors and support for your GHG accounting journey. Contact us today to learn how the PCAF Database can transform your emissions reporting process.



WHAT IS THE PCAF DATABASE?

The PCAF Database is a repository of physical and economic activity-based emissions factors available to PCAF Signatories and Accredited Partners. This database was set-up to support our signatories (starting) with calculating and reporting the emissions associated with their financial activities in line with the PCAF Standards A, B and C. While reported emissions from their clients and investees are the most ideal source of data, this data is not always readily available. In order to help Signatories fill this gap or get started on their GHG accounting journey, the Database provides emission factors of a PCAF Data Quality Score (DQS) 3-5. The datasets are based on publicly available data sources and are fully aligned with the PCAF methodologies.

Beyond providing emission factors, the PCAF Database also provides detailed methodologies on the derivation of these factors across asset classes. This is consistent with PCAF's mission of increasing transparency and consistency in emissions reporting. Guidance on how to use the emissions factors and additional resources to assist in applying them are also provided. Additional resources include industry classification mapping files, methodology documents, unit conversions, and data definitions.

WHO IS THE PCAF DATABASE FOR?



Financial institutions starting on their GHG accounting journey.



Financial institutions with activities in global regions that are not sufficiently covered by existing commercial data providers.



Financial institutions unable to afford buying from data vendors.



Financial institutions looking to fill any remaining data gaps in their portfolio GHG emission calculations

HOW IS THE PCAF DATABASE MANAGED?

The PCAF Database is governed by the Climate Data Working Group (CDWG). The CDWG is made up of data expert representatives from PCAF signatories. These experts volunteer to provide strategic direction and actively engage in maintaining, updating, and expanding the coverage of emission factors in the Database. The PCAF Database is updated twice a year, in March and September. These updates typically include (1) updating the factors when more recent data becomes available, and (2) expansions in the geographical and/or asset class coverage of the data when new data sources are identified and tested.

HOW TO REACH US?

Are you a financial institution interested in becoming a PCAF Signatory or a service provider wanting to find out more about the PCAF Accredited Partner program? Please reach out to info@carbonaccountingfinancials.com. For any specific questions about the PCAF Database, you can get in touch with our experts here: database@carbonaccountingfinancials.com.



We use the PCAF Database extensively and welcome PCAF's ongoing efforts to improve its coverage of the Global South. Having the chance to voice our opinions and work with PCAF to tailor the PCAF Database for our specific circumstances makes us feel like we are all working together towards a common goal."

Standard Bank, South Africa

HOW CAN I USE THE PCAF DATABASE SERVICES TO PREPARE MY DISCLOSURE?

Database Access

The database can be accessed by emailing the database team to receive your login details. You can then access the PCAF web-based database

Database Website

Access guidance documents and additional resources on the database website. When using the online database, you are able to filter by criteria such as asset class/type/region, and download the data in excel or CSV format.

Technical Assistance

Users of the PCAF Database are supported by data experts in the PCAF Secretariat team, who are on hand to respond to technical questions over email and in fortnightly office hours.

Database Environment

The PCAF Database is entirely web-based and can integrate seamlessly with financial institutions' internal systems through an API or through manual data exports to various file formats.

Asset Classes and Coverage

| EMISSION FACTOR | | DESCRIPTION | COVERAGE | | | | | | | | | | | | |
|--|---|--|--|--------|--------------|-----------------------|---|--------------------|------------------------------|----------------------|--|--|-----------------------------------|-------------|--------|
| Economic Emission Factors DQS 3, 4 & 5 | | The economic-based emission factors that are provided in the Database should be used to calculate emissions when physical activity data or reported emissions are unavailable. Revenue-based emissions intensities are based on the CEDA Environmentally Extended Input Output Table (EEIO). Asset-based emission factors are derived by combining revenue-based emission factors with asset turnover ratios calculated by the PCAF Secretariat. | <p> ■ Country-specific data ■ 'Rest of World' proxy </p> | | | | | | | | | | | | |
| Listed Equity and Corporate Bonds | Option 3 | | | | | | | | | | | | | | |
| Business Loans and Unlisted Equity | Option 3 | | | | | | | | | | | | | | |
| Project Finance | Option 3 | | | | | | | | | | | | | | |
| Commercial lines (insurance) | Option 3a | | | | | | | | | | | | | | |
| Physical Emission Factors DQS 2,3,4 & 5 | | The PCAF Secretariat collects physical activity-based emission factors from various public sources such as FAOSTAT, EEA, IPCC, and UK DEFRA. The data from these sources are provided in a consistent format for easy handling and updated regularly. | <table border="1"> <thead> <tr> <th>SECTOR</th> <th>DATA SOURCES</th> </tr> </thead> <tbody> <tr> <td>Agricultural products</td> <td>FAOSTAT</td> </tr> <tr> <td>Power</td> <td>Climate Trace and Ember</td> </tr> <tr> <td>Metals and materials</td> <td>DEFRA, World Steel Association, Probas</td> </tr> <tr> <td>Fuels</td> <td>DEFRA and other research articles</td> </tr> </tbody> </table> | SECTOR | DATA SOURCES | Agricultural products | FAOSTAT | Power | Climate Trace and Ember | Metals and materials | DEFRA, World Steel Association, Probas | Fuels | DEFRA and other research articles | | |
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| Listed Equity and Corporate Bonds | Option 2,3 | | | | | | | | | | | | | | |
| Business Loans and Unlisted Equity | Option 2,3 | | | | | | | | | | | | | | |
| Project Finance | Option 2,3 | | | | | | | | | | | | | | |
| Commercial lines (insurance) | Option 2,3 | | | | | | | | | | | | | | |
| Building Emission Factors DQS 3, 4 & 5 | | The PCAF Database provides building emissions data for the Mortgages and Commercial Real Estate asset classes. Historic data availability on building emissions has meant that the majority of the current data points are from North America and Europe. However, the PCAF Secretariat is conducting additional in-house research to expand the coverage to additional global regions, particularly APAC. | <p> ■ Based on national building surveys for US and Canada data ■ Based on Eurostat data ■ Based on Country-Specific Data Sources ■ No data </p> | | | | | | | | | | | | |
| Commercial Real Estate | Option 1b, 2, 3 | | | | | | | | | | | | | | |
| Mortgages | Option 1b, 2, 3 | | | | | | | | | | | | | | |
| Motor Vehicle Emission Factors DQS 1, 3, 4 & 5 | | This dataset covers the financing and insurance of a large number of vehicle types and models. Public data sources such as EPA, EEA, and OECD are used in the derivation of these emission factors, as well as country-by-country data on average distance driven (for the DQS 3, 4 & 5 emission factors). Where country-specific data is not available, the emission factors are instead based on regional averages. | <table border="1"> <thead> <tr> <th>SECTOR</th> <th>DATA SOURCES</th> </tr> </thead> <tbody> <tr> <td>Heavy Vehicles</td> <td>EEA Heavy Vehicles, European Automobile Manufacturing Association</td> </tr> <tr> <td>Passenger Vehicles</td> <td>EEA Passenger Vehicles, ICCT</td> </tr> <tr> <td>Vans</td> <td>EEA Vans, ICCT</td> </tr> <tr> <td>Aircraft, Ships, Buses, Rails, and Trams</td> <td>DEFRA</td> </tr> <tr> <td>US Vehicles</td> <td>US EPA</td> </tr> </tbody> </table> | SECTOR | DATA SOURCES | Heavy Vehicles | EEA Heavy Vehicles, European Automobile Manufacturing Association | Passenger Vehicles | EEA Passenger Vehicles, ICCT | Vans | EEA Vans, ICCT | Aircraft, Ships, Buses, Rails, and Trams | DEFRA | US Vehicles | US EPA |
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| Motor vehicle loans | Option 1b, 2, 3 | | | | | | | | | | | | | | |
| Personal Motor vehicle Lines (Insurance) | Option 1b, 2, 3 | | | | | | | | | | | | | | |
| Sovereign Debt Emission Factors DQS 1 & 4 | | This sovereign emissions dataset includes Scope 1 emission factors for all countries, including and excluding land use change (LULUCF), as per the reporting requirements of the PCAF Standard. Scope 2 and 3 emission factors are also provided for select countries, where data is available. For these countries, consumption emissions are also calculated. Source data includes those mentioned in the PCAF Standard, such as UNFCCC, OWID, and OECD. | <p> ■ OECD, UNFCCC ■ OECD, OWID ■ OWID ■ No data </p> | | | | | | | | | | | | |
| Sovereign Debt | Option 1b, 3 | | | | | | | | | | | | | | |