

Partnership for Carbon Accounting Financials

Enabling financial institutions to measure emissions associated with financial activities

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Prepared for the UAB titled Conference challenges of Achieving SDGs, Geneva, June 2024

Agenda



PCAF INTRODUCTION



HOW PCAF CAN HELP BANKS



PCAF AND SDGS



Q&A







What is PCAF

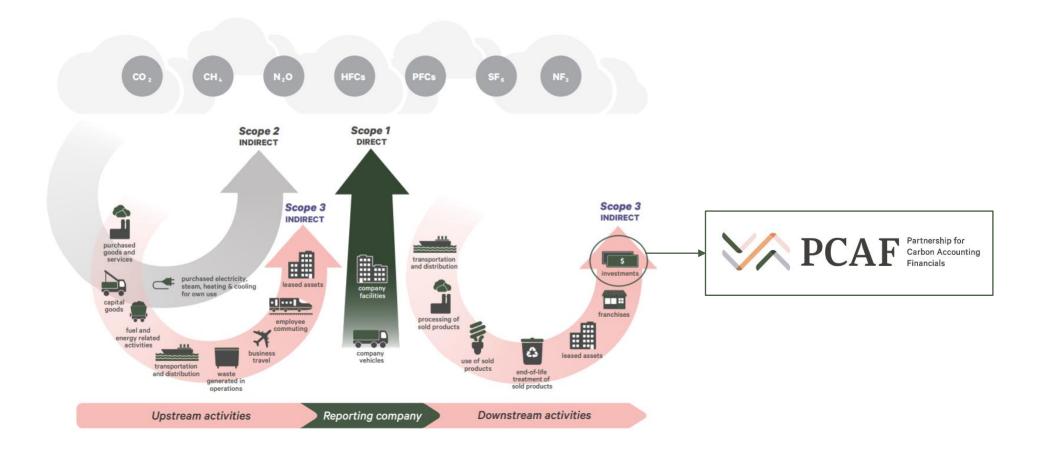
Intro to GHG accounting for financial institutions

Greenhouse gas (GHG) accounting for financial institutions is the annual accounting and disclosure of GHG emissions associated with financial activities at a fixed point in time in line with financial accounting periods.

What gets measured gets managed



Financial institutions indirectly create a climate impact through their financial activities





Scope 3, Category 15 emissions are the largest component of the climate impact of a financial institution

Portfolio emissions of global financial institutions are on average 700x larger than direct emissions. #TimeToGreenFinance *Per organization reporting financed emissions





Since 2015, PCAF signatories have developed and tested GHG accounting methods, leading to a globally harmonized Standard



2011



2015



2018



2019



2020





2023

WRI and WBCSD published Corporate Value Chain (Scope 3) Accounting and Reporting Standard PCAF founded by Dutch financial institutions PCAF launched in North America

PCAF launched globally

PCAF published 2 reports on GHG accounting methods

PCAF launches Global GHG Accounting and Reporting Standard for the financial industry 400+ PCAF
Signatories and the incorporation of PCAF as a non-profit organization

Completed first editions of parts A, B and C of the PCAF Standard covering financed emissions, facilitated emissions and insurance associated emissions respectively.



















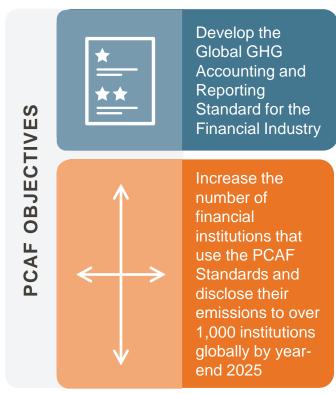


"This standard has been reviewed by the GHG Protocol and is in conformance with the requirements set forth in the Corporate Value Chain (Scope 3) Accounting and Reporting Standard, for Category 15 investment activities."



490+ financial institutions in 74 countries are part of PCAF, 180 have disclosed (as of June 2024)



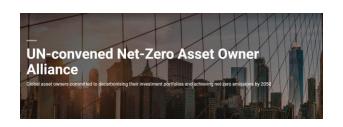


CHECK THE FULL LIST OF PCAF SIGNATORIES HERE

DOWNLOAD THE GLOBAL GHG ACCOUNTING AND REPORTING STANDARD HERE

PCAF works with various global partners and collaborators

All Global Net-Zero Alliances and Net-Zero Initiatives







Paris Aligned
Investment Initiative

Reporting, Target-Setting and Sector Alignment initiatives













Leading local Sustainable Finance networks and actors





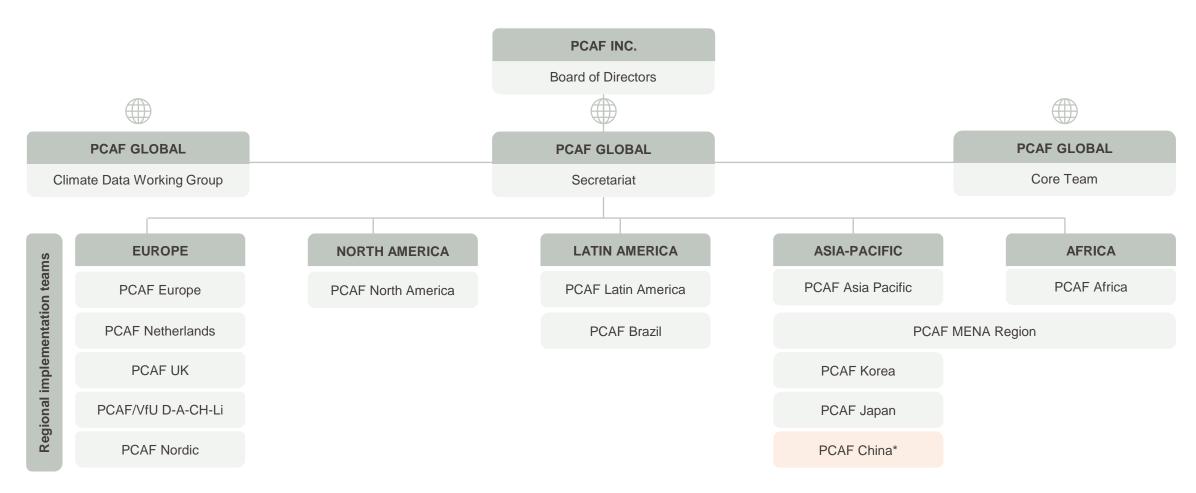








PCAF drives implementation through regional and national collaborations



^{*} Under consideration. Additional national chapters can be created if there is sufficient interest from signatories







How PCAF helps banks

Measuring and disclosing emissions associated with financial activity furthers climate-related goals and aligns with other initiatives

Business Goal 1

Create transparency for stakeholders

Business Goal 2

Manage climate-related transitions risks

Business Goal 3

Develop climate-friendly financial products

Business Goal 4

Align financial flows with the Paris Agreement

MEASUREMENT OF EMISSIONS ASSOCIATED WITH FINANCIAL ACTIVITIES









PCAF helps banks to directly achieve specific SDGs

SUSTAINABLE GALS DEVELOPMENT GALS



























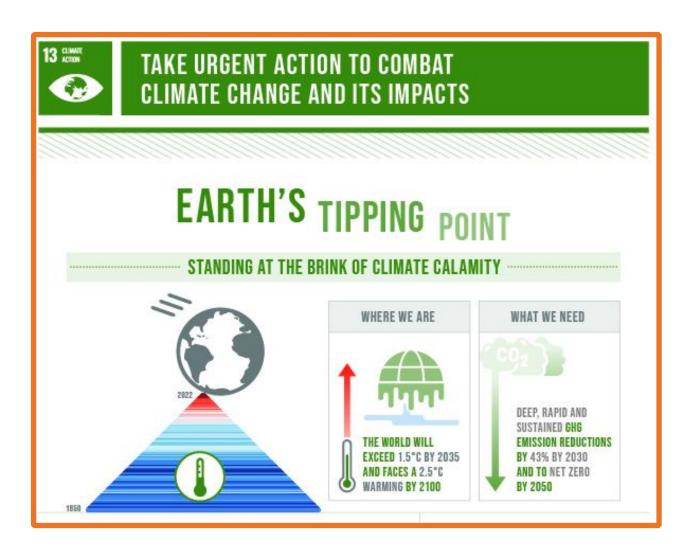




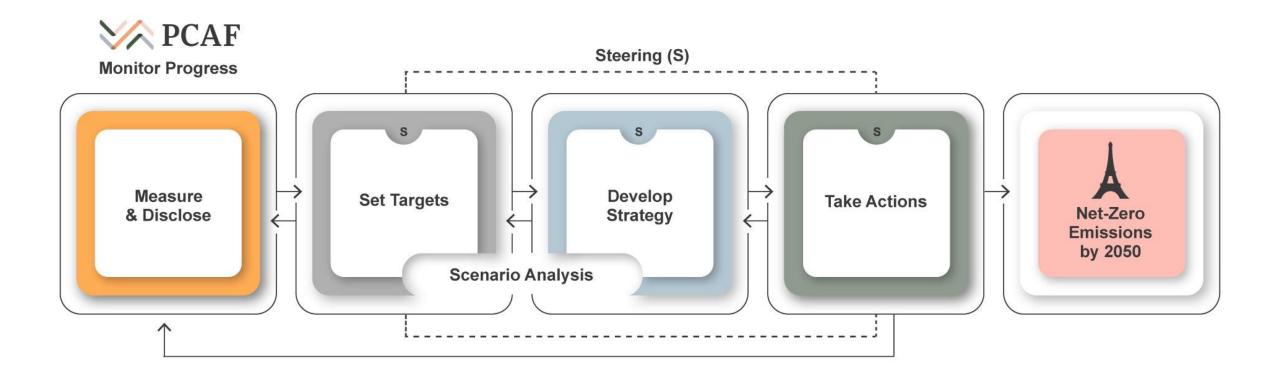




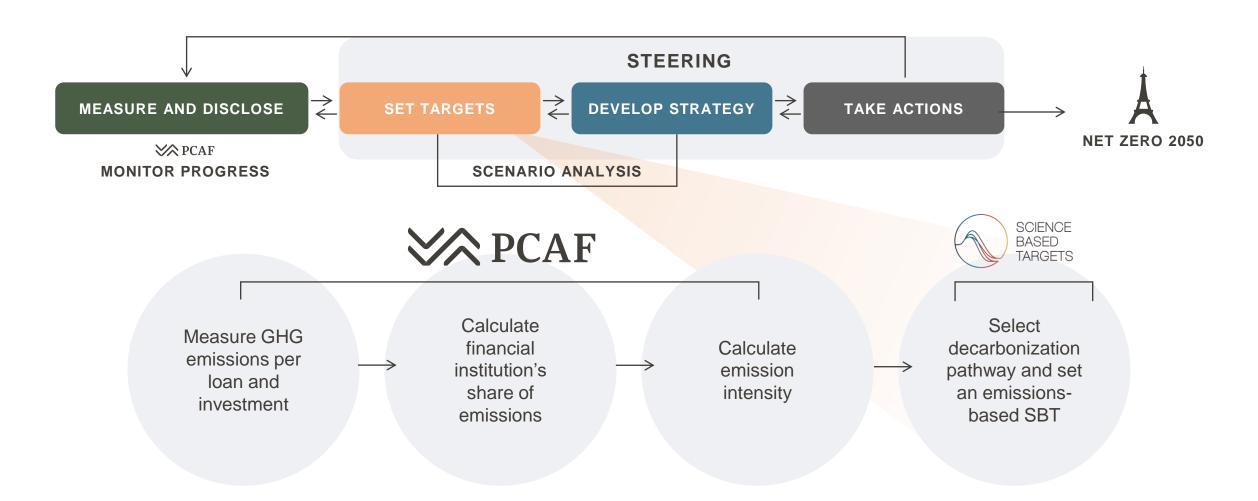
Helps banks to progress directly and achieve SDG goal number 13 focusing on climate actions to reduce the carbon emission.



GHG accounting exists as a discrete action in a sequence that allows banks and investors to measure, disclose and align



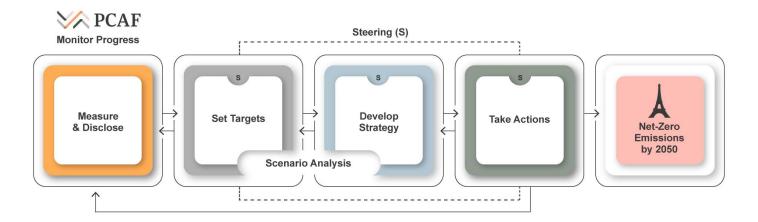
Measuring emissions associated with financial activity provides the baseline for science based target setting





Emissions associated with financial activity inform climate strategies and the development of climate-friendly products

Business Goal 3
Develop climatefriendly financial
products



Triodos & Bank

SPECIAL MORTGAGE TO IMPROVE THE ENERGY EFFICIENCY OF HOUSES

Triodos Bank developed a dedicated financial product with a lower interest to customers that renovate their homes and aim to improve energy efficiency (B, A, A+)



FUNDING AND AFFORDABLE FINANCING FOR CLEAN VEHICLES

The bank partnered with the State of California to provide grants and affordable financing to help income-qualified Californians purchase or lease a new or used hybrid or electric vehicle



GREEN LOAN TO FUND GREEN ENERGY AND SUSTAINABILITY PROJECTS

Barclays' SME clients can borrow up to £5 million to fund projects with positive climate impact or that help reduce climate impact. Including harnessing and storing solar and wind energy, or upgrading to eco-friendly machinery



COMMERCIAL REAL ESTATE TOOLS TO IMPROVE BUILDINGS ENERGY EFFICIENCY

ABN AMRO enables real estate clients increase the energy efficiency of the buildings and associated carbon emissions. Through its Sustainable Investment Tool, the bank assesses the assets and recommends improvement measures along with special financing offerings



PCAF Signatories in MENA Region

بنــــــــــــــــــــــــــــــــــــ	Frist Bank of Abu Dhabi FAB	UAE
	Commercial International Bank CIB	Egypt
البتكالاهمّاناللسّعِد ahli united bank	Ahli United Bank	Bahrain
() Emirates NBD	Emirates NBD	UAE
W Bank ABC	Bank ABC	Bahrain
NBK NBK	National Bank of Kuwait *	Kuwait
بنك الاتداد Bank al Etihad	Bank al Etihad	Jordan
 QNB	Qatar National Bank	Qatar

NBK sent the commitment letter on 16.04.2024, the onboarding process has not yet been completed.





Thanks a lot.

For more info, please contact PCAF eslam.mahdy@guidehouse.com info@carbonaccountingfinancials.com

Joining PCAF brings multiple additional benefits



COLLABORATION

PCAF offers you the largest global industry-led network of financial institutions, collaborating to measure and report on the GHG emissions associated with their financial activities.



STANDARD & GUIDANCE

PCAF offers you the chance to be part of specific working groups that develop updates to the Global GHG Accounting and Reporting Standard for the Financial Industry and work with peers on supplementary, technical guidance.



PCAF ACADEMY & TECHNICAL ASSISTANCE

The PCAF Secretariat's team of subject matter experts provide you with technical support. PCAF also offers signatories to participate in the PCAF Academy, i.e. professional e-learning modules on the PCAF Standard.



PCAF EMISSION FACTOR DATABASE

The PCAF emission factor database provides a set of emission factors which are aligned with the methodologies of the PCAF Standard, as well as detailed guidance on how to use them to calculate emissions associated with financial activities.



KNOWLEDGE SHARING

PCAF offers you the opportunity to join regional/national implementation teams to actively stimulate knowledge sharing and peer-to-peer learning. Meetings, workshops and webinars are organized on a regular basis.



GLOBAL RECOGNITION

As a global initiative, being a PCAF signatory helps communicate your commitment to providing solutions to climate change. Your organization is listed on the PCAF website and is granted the rights to use the PCAF logo.

Joining PCAF also brings multiple additional benefits

NETWORK EXPANSION

- Investors, banks and experts globally
- Link to SBTi, UNEP FI's NZAOA, NZBA, TCFD and CDP

DECISION-MAKING AUTHORITY

- The Global GHG Accounting and Reporting Standard (when joining the PCAF core team)
- Local-tailored guides
- Best practices

LEADERSHIP RECOGNITION

- Global and regional events on climate finance
- Social media via PCAF marketing channels

TECHNICAL SUPPORT

- · Workshops and trainings
- Technical guides and case studies
- PCAF Academy



PCAF signatories commit to assess and disclose the greenhouse gas emissions of their financial portfolio

COMMITMENT IN SHORT:

Measure and disclose the portfolio GHG emissions within **three years** of signing the commitment letter (portfolio coverage is up to the institution)

Commitment letter

All financial institutions involved in the Partnership for Carbon Accounting Financials ("PCAF") pledged and adhere to the following commitment. By joining PCAF, our financial institution also commits to adhere to this:

Addressing the urgent challenge of climate change, and decarbonizing our economy, is more pressing now than ever. That is why we have committed to measure and disclose the greenhouse gas (GHG) emissions associated with our portfolio of loans, investments, (re)insurance underwriting, and other financial products and services* within a period of three years using jointly developed GHG accounting methodologies, in order to ultimately enable the alignment of our portfolio with the Paris Climate Agreement.

We want to share and learn from credible GHG accounting practices to find solutions to shared challenges. We hope this will encourage and stimulate the adoption of GHG accounting and target setting in the financial sector on a larger and mainstream scale.

We will contribute to the overall objective of PCAF, which is to secure the public commitment (via signed commitment letters) of at least 1,000 participating financial institutions globally to measure and disclose the GHG emissions of their loans, investments, (re)insurance underwriting, and other financial products and services within a period of three years. Together we will collaborate to achieve transparency and uniformity in GHG accounting.

We will pay the PCAF signatory fee associated with our sector categorization on an annual basis per PCAF payment terms in effect at the time of signing this letter. Our contribution will support the inclusive growth and expansion of the initiative and the development of new methods, guidance, and other resources that can assist financial institutions on their GHG accounting journey.

We acknowledge that our commitment will be recognized on the PCAF website and social media accounts, as well as at other communication activities such as events where the initiative is showcased.

Other financial products and services include for example capital market instruments. PCAF signatories will be able to measure emissions related to these
products when the methodology becomes available.



The Standard consists of three parts for financial institutions to measure and report emissions from their financial activities



Part A - Financed Emissions

 Provides methodological guidance to measure and disclose GHG emissions associated with seven asset classes as well as guidance on emission removals. 2nd edition launched in 2022

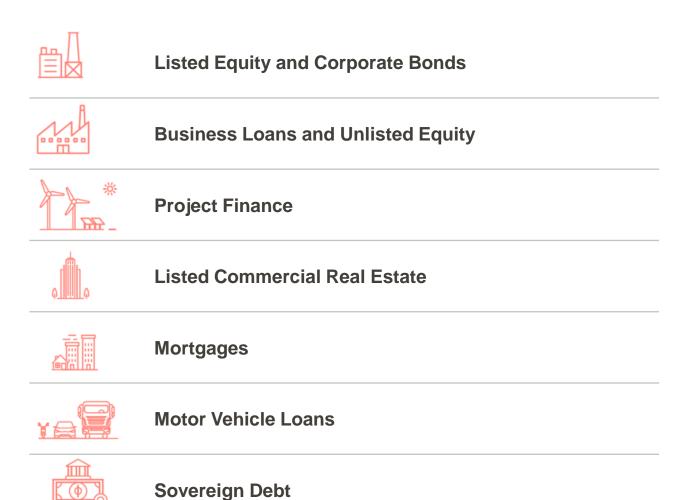
Part B - Facilitated Emissions

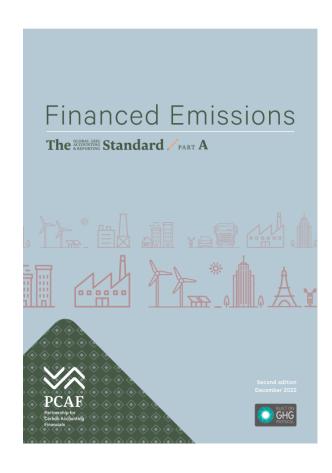
- Provides methodological guidance for measuring and reporting the GHG emissions associated with **capital markets transactions**.
- Launched on 1st December 2023.

Part C - Insurance-Associated Emissions

- Provides methodological guidance for measuring and reporting the GHG emissions associated with re/insurance underwriting for two segments. 1st edition launched in 2022.
- The two segments are: 1) commercial lines, and 2) personal motor lines.

Part A: Financed Emissions – there are seven asset classes







Part B: Facilitated Emissions – covering capital market instruments and loan syndication



Standard released on December 1st 2023, **providing guidance to calculate emissions** associated with primary issuance capital market instruments and loan syndication



The Standard covers **general-purpose facilitated issuances** of new public debt and public equity, equity and debt investments in private companies, and syndicated loans



Total capital market issuance was 22.9 trillion USD in 2022. This methodology **increases transparency** in this globally significant market



PCAF engaged with stakeholders to solicit **feedback through public consultation** in October 2022. This feedback has been appropriately considered and incorporated





Part C: Insurance-Associated Emissions – first edition of the PCAF Standard for insurance-associated emissions

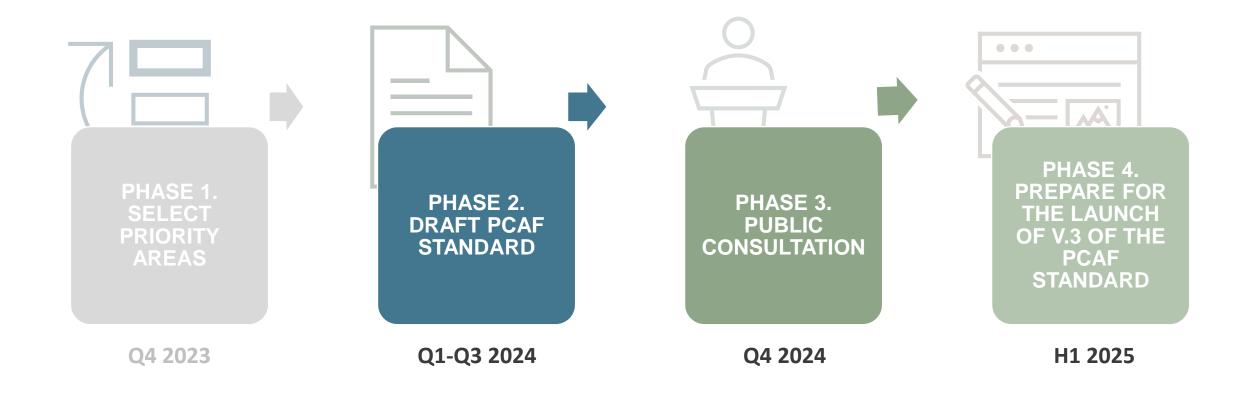
Property and Liability / Causality (Commercial Insurances)
Commercial Motor (Commercial Insurances)
Agriculture and Marine / Aviation (Commercial Insurances)
Trade Credit (Commercial Insurances)
All Other Engineering Lines (Commercial Insurances)
Other / Special Lines (Commercial Insurances)



Personal Motor Lines



Standard development process as managed by the PCAF Core Team



PCAF's 2024 priority areas for Standard Development

A longlist of areas of interest, based on a signatory survey, were prioritised by the Core team based on the following criteria:

> Materiality of the category for financial sector

Impact / ability to take action

Demand for the methodology

Complexity of developing method

This process resulted in the selection of four **priority areas** for methodology development.

- **Transition finance** (including green finance, bonds, and avoided emissions)
- Inventory fluctuation (including EVIC)
- Additional insurance products
- Securitized and structured products

And four areas PCAF will be carrying out **exploratory work** to support future standard development cycles.

- Additional consumer finance products
- Additional facilitated emissions products including derivatives, hedge funds and others
- Embodied carbon from real estate
- Municipal bonds / sub-sovereigns



Update on PCAF Standard Development activity – June 2024



Working Groups are submitting interim draft methodologies to the Core Team for review in mid-June.



Working Groups have engaged with **PCAF accredited partners**, where applicable, in the development of methodologies.



The Working Groups are **on track** to deliver methodologies to the public for a **public consultation toward the end of 2024**.



The Core Team has begun **exploratory work** for Embodied Carbon, and Sub-Sovereigns & Municipal Bonds.

The methodologies being drafted are on:

- Transition and green finance
- Inventory fluctuations (including EVIC)
- Project and treaty insurance
- Securitized products

Emissions are attributed to financial institutions based on robust and consistent accounting rules

FINANCED EMISSIONS

$$= \sum_{i} \frac{Investment_{i}}{Investee \ equity_{i} + Investee \ debt_{i}} \qquad x \qquad \qquad Emissions \ of \ investee_{i}}{(with \ i = investee)}$$

Attribution Factor

- The attribution factor is used to show the FI's share of the borrow or investee's emissions
- A borrower or investee is a general term and could represent a company, property, project or motor vehicle (asset class dependent)

Reported emissions_i

Physical activity-based emissions_i

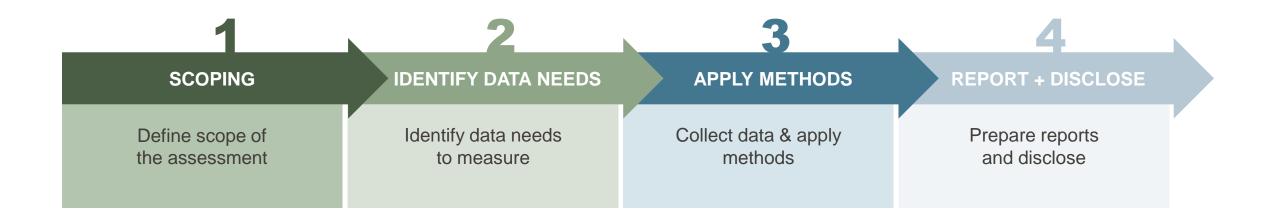
Economic activity-based emissions_i

Hierarchy of prefere

Availability of data determines the method of calculating financed emissions

Attribution factor_c **Emissions** c FINANCED EMISSIONS X (with c = borrower or investee company)The attribution factor is used to show the FI's share of the investee's Reported emissions_c emissions An investee is a general term and could represent a company, property, project etc. (asset class dependent) Physical activity-based emissions_c Outstanding amount_c Total book value of equity_c + debt_c or **Economic activity-based** Outstanding amount_c emissions_c **Enterprise value including cash (EVIC)**

High-level steps to measure and disclose financed emissions

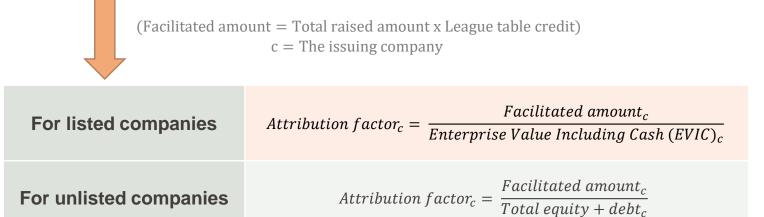


General approach to calculate financed emissions:

The facilitated emissions equation holds two significant new elements: the facilitated amount and the weighting factor

$$Facilitated\ Emissions = \sum_{s} \frac{Facilitated\ amount}{Company\ value} \times Weighting\ factor \times Annual\ emissions_{c}$$

- Annual emissions: time period over which the facilitation activity is captured
- Attribution factor (facilitated / company value): how are emission allocated between facilitators of an issuance
- Weighting factor: the 33% of responsibility of issuers emissions





The emissions of the issuer shall only be accounted for in the year the facilitation occurs due to the temporary association with the transaction



FINANCED

Balance sheet exposure – more risk



Where a financial institution lends funds, it puts capital at risk. This exposure remains on its balance sheet for **the life of the loan/investment**, leading to financed emissions over that period.

No balance sheet exposure – less risk

Where a financial institution facilitates a capital market issuance, the financial institution likely doesn't put any of its **own capital at risk**, thus no transaction is recorded on their **balance sheet**.

FACILITATED



METHODOLOGY

Timeframe of facilitated emissions reporting – only in the year of issuance



- The temporary association ensures different treatment for 'facilitators' to lending and investing.
- The association with the capital market transaction shall be accounted for in the year the facilitation occurs,
- The estimated or reported emissions of the issuer in that year will be used for the calculation.
- All the transactions during the year are aggregated to calculate the total facilitated emissions
- The buyers of facilitated instruments report it as part of their financed emissions for each year invested.
- Facilitated emissions and financed emissions need to be reported in the same timeframe.

The facilitator's responsibility shall be split based on the proportion of the issuance that is allotted to each facilitator for each transaction



METHODOLOGY

Splitting responsibilities

 The attribution factor allocates the emissions based on the proportional share of facilitation to the issuer.

 $\sum_{s} \frac{Facilitated\ amount}{Company\ value}$

There is typically more than one facilitator in a transaction, thus it is important to split the responsibilities between the facilitators. This is reflected in the facilitation amount:

> Total raised amount x League table credit

League tables rank financial institutions based on their capital market activities

!

EXAMPLE Using the league tables do execute a calculation

The following example shows a situation with three facilitators – two lead bookrunners and one co-manager where 200 million USD was raised. It displays both options of using the league table based on fees or volume.

Financial Insti	tution	Lead Bookrunner 1	Lead Bookrunner 2	Co-manager	
1. Annual emissions of company		1,000 kt CO ₂ e			
2. League	1. Based on fees	50%	45%	5%	
table credit	2. Based on volume	50%	50%	0%	
3. Facilitated	1. Based on fees	\$200m x 50% = \$100m	\$200m x 45% = \$90m	N/A	
amount	2. Based on volume	\$200m x 50% = \$100m	\$200m x 50% = \$100m	N/A	
factor fees	1. Based on fees	\$100m /\$2bn = 0.05	\$90m/\$2bn = 0.045	N/A	
(facilitated amount/ Company value)	2. Based on volume	\$100m/\$2bn = 0.05	\$100m/\$2bn = 0.05	N/A	
5. Weighting f	actor	33%	33%	N/A	
6. Facilitated emissions	1. Based on fees	$1,000 \text{ kt CO}_2\text{e x } 0.05 \text{ x } 0.33$ = 16.5	1,000 kt CO ₂ e x 0.045 x 0.33 = 14.85	N/A	
(kt CO ₂ e)	2. Based on volume	1,000 kt CO ₂ e x 0.05 x 0.33 = <u>16.5</u>	1,000 kt CO ₂ e x 0.05 x 0.33 = 16.5	N/A	



Zooming in: reasoning for the selection of EVIC as the denominator metric in the attribution factor for listed companies

Five reasons

- Includes both equity and debt in line with PCAF attribution principles and other asset classes, ensuring alignment with similar asset classes (i.e., business loans)
- It is a common metric in the financial sector of a company's total value and is expected to gain more dominance because of its adoption by the EU TEG and the benchmark regulation
- Is based on company data (market value and total book value of debt), which is generally available to financial institutions and data providers
- Includes market valuation of equity, which is the most common approach in the financial sector to determine company ownership
- Avoids issues with negative enterprise values

Example company including and excluding cash

The following example is a company with equity of \$50, debt of \$50, and cash of \$20.

Approaches	Enterprise value	Attribution to equity	Attribution to debt	Total
EV excl. cash	\$50 + \$50 - \$20 = \$80	\$50/\$80 = 63%	\$50 / \$80 = 63%	> 100%
EV incl. cash	\$50+\$50 = \$100	\$50/\$100 = 50%	\$50 / \$100 = 50%	100%



An easy way to find EVIC data is to find the enterprise value from a data provider and add the cash back in.



Zooming in: PCAF's chosen attribution factor denominator is aligned to GHGP and EU Technical Expert Group (EU TEG):

GHGP on the attribution

 "Emissions from investments should be allocated to the reporting company based on the reporting company's proportional share of investment in the investee."

EU TEG on the attribution

- "Enterprise Value Including Cash (EVIC) is defined as the sum of the market capitalisation of ordinary shares at fiscal year end, the market capitalisation of preferred shares at fiscal year end, and the book values of total debt and minorities' interests."
 - EU TEG implies that, for listed equity, attribution has to be done over EVIC – e.g., total equity (market capitalization) and debt (book value of total debt)

For non-listed companies: $\frac{Outstanding\ amount}{Total\ equity+debt}$

Q How to find the right items on the balance sheet

LIABILITIES		
Current liabilities		
Notes payable	\$ 5,000	
Accounts payable	35,900	
Wages payable	8,500	
Interest payable	2,900	
Taxes payable	6,100	
Warranty liability	1,100	
Unearned revenues	1,500	
Total current liabilities	61,000	
Long-term liabilities		
Notes payable	20,000	
Bonds payable	400,000	
Total long-term liabilities	420,000	
Total liabilities	481,000	Total Liab
STOCKHOLDERS' EQUITY		
Common stock	110,000	
Retained earnings	220,000	
Accum other comprehensive income	9,000	
Less: Treasury stock	(50,000)	
Total stockholders' equity	289,000	Total E
Particular and the second seco	\$ 770,000	Total balance
Total liabilities & stockholders' equity	\$ 770,000	



A weighting factor is included in the facilitated emissions equation due to the distinct role facilitators play in comparison to lending and investing



METHODOLOGY

Differentiate between the different activities



Given that the role of financial institutions in facilitating capital market activities is different from its lender and investor role, a 33% weighting
was decided for all capital market issuances in scope to distinguish between the relative importance of a financing activity versus a facilitation
activity.

APPLICATION

Apply the 33% to all transactions



The weighting factor should be applied consistently across transactions, regardless of the use of proceeds.

(≥)

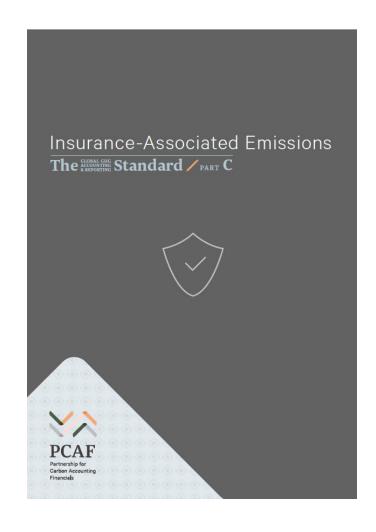
REPORTING

Optionally report without the weighting



• Financial institutions may additionally report their facilitated emissions **without weighting** if this is reported separately, and the rationale is clearly disclosed – this would be in addition to reporting the 33% weighting, not instead of.





Overview of the PCAF Insurance-Associated Emissions Standard

THE FIRST VERSION OF THE PCAF STANDARD INCLUDES THE FOLLOWING SEGMENTS:





The detailed table on the following slide highlights which Lines of Business (LoBs) within commercial lines are covered by the Standard

The Standard was published on 16th November 2022



Following segments/LoBs are covered or not covered*

LoB	COVERED IN	LoB	COVERED IN			
Property (e.g., fire, multi peril)	5.2 Emissions associated with commercial lines	Other/Special lines (e.g., Financial Lines)	5.2 Emissions associated with commercial lines			
Liability/Casualty (e.g., General Liability, Product Liability)	5.2 Emissions associated with commercial lines Statutory lines of businesses		5.2 Emissions associated with commercial lines			
Commercial motor (all lines)	5.2 Emissions associated with commercial lines					
Marine (liability and hull)	5.2 Emissions associated with commercial lines	Structured trade credit (insurance of credit risk for bank loans, etc.)	Out of scope			
Aviation (liability and hull)	5.2 Emissions associated with commercial lines	Surety	Out of scope			
Agriculture (excl. government schemes)	5.2 Emissions associated with commercial lines	Engineering lines: Construction all-risk, erection all-risk only	Out of scope			
Trade credit (insurance of credit risk for sold goods)	5.2 Emissions associated with commercial lines	Corporate life and pensions, personal accident	Out of scope			
All other engineering lines (e.g., machinery breakdown)	5.2 Emissions associated with commercial lines	Public entities	Out of scope			
* See footnotes on page 30 of the PCAF Standard Pa	* See footnotes on page 30 of the PCAF Standard Part C: Insurance-Associated Emissions for more details.					

^{*} See footnotes on page 30 of the PCAF Standard Part C: Insurance-Associated Emissions for more details



Part C: Insurance-Associated Emissions – two Lines of Business



Personal motor lines

covered

COMMERCIAL LINES

PERSONAL MOTOR LINES

Re/insurance premium ;
Customer revenue ;

X Emissions ;

(Industry) Attribution factor _p =

Insurance industry's total premium from the motor line of business

Total costs associated with vehicle ownership of all vehicles

X Vehicle emissions

or (for cases where risk carriers are unable to use the industry attribution factor above)

(Individual) Attribution factor _p =

Insurance specific premium from the motor line of business

Total costs associated with vehicle ownership of the portfolio P vehicles

X Vehicle emissions

More information on the **(Industry) attribution factor**, provided by PCAF, can be found in the <u>PCAF</u> <u>personal motor industry attribution factor approach</u> presentation.



Calculating insurance-associated emissions for commercial lines and private vehicle insurance

Insuranceassociated emissions

$$=\sum$$

Attribution factor_i

X

Emissions i

(with i = insured)

The attribution factor is used to show the share of the emission to be associated with the re/insurer

Co	mm	Or	cia	1.16	nes
LO		ren (ш	nes

 $\frac{Re/insurance\ premium_i}{\text{Customer revenue}_i}$

Personal motor lines

Insurance industrys total premium from the motor line of business *i*Total costs associated with vehicle ownership of all vehicles

or

Insurer specific premium from
the motor line of business
Total costs associated with vehicle
ownership of the portfolio P vehicles

Reported emissions

or

Physical activity-based emissions_i

3 Economic activity-based

emissions_i

Estimated emissions_i

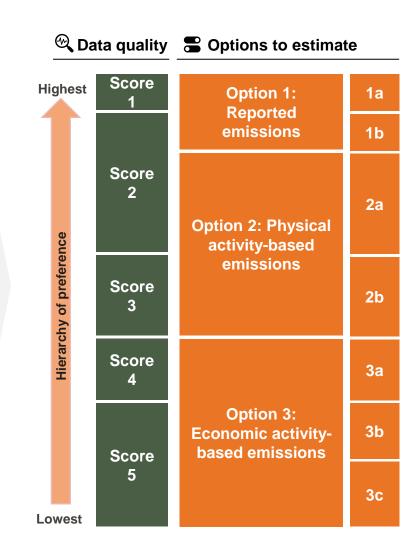
Reporting recommendations and requirements: Data and data quality

Data limitations should not deter financial institutions from starting their GHG accounting journeys

- Always aim for the highest data quality score
- If no data is available, start with data quality score 5
- Improve data quality over time by collecting more accurate measures

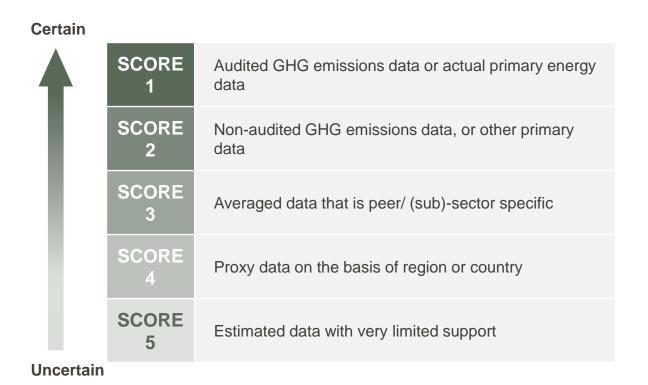
Requirements to keep in mind:

- FIs shall use the most recent or otherwise appropriate data available to them
- FIs should provide a description of the types and sources of data used to calculate emissions. Descriptions should be written to create transparency
- The data hierarchy tables provided in each asset class method in Chapter 5 should be used as a guide for disclosing data quality. Financial institutions should explain how data quality is assessed, acknowledging that it will improve over time



The Standard addresses data quality issues and advises on which data can give the most robust results for each asset class

Data quality scoring from 1 to 5....

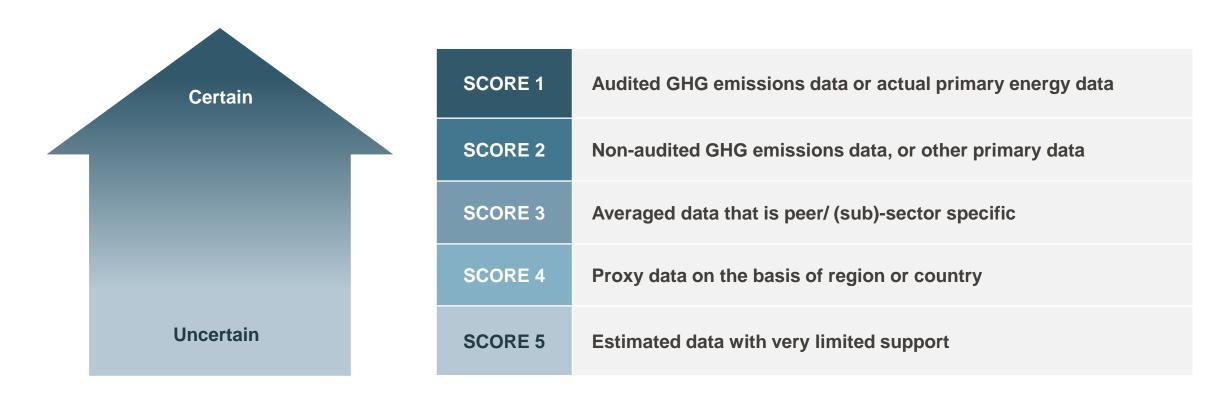






The Standard addresses data quality issues and advises on which data can give the most robust results for each asset class

DATA QUALITY SCORING FROM 1 TO 5....

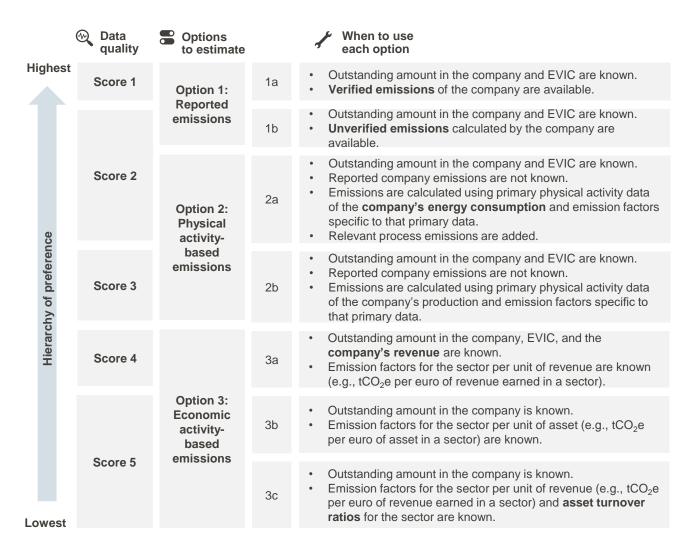




Reporting recommendations and requirements: Data and data quality

- Fls shall use the most recent or otherwise appropriate data available to them.
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 Financial institutions should explain how data quality is assessed, acknowledging that it will improve over time.

GENERAL DESCRIPTION OF THE DATA QUALITY SCORE TABLE FOR BUSINESS LOANS AND UNLISTED EQUITY









PCAF Technical Assistance

PCAF Technical Assistance team hosts bi-weekly office hours



What is the Office hour?

- A chance for PCAF signatories to ask questions to the technical assistance team "live" to reduce response time for signatories via email communication
- More personalized interaction between signatories and the TA team
- Collaboration and knowledge sharing platform between signatories



Who will support?

- Each session will have 2-3
 PCAF technical experts
 present in the call
- The sessions will be open to all participants that wish to attend at once, instead of one-on-one interactions as it offers opportunity to learn from peers' experience and challenges



How can you join?

- The sessions alternate between Tuesday 16:00 BST and Wednesday, 8:00 BST
- You can join by signing up via Zoom links below:

Sign up for Tuesday sessions

Sign up for Wednesday sessions



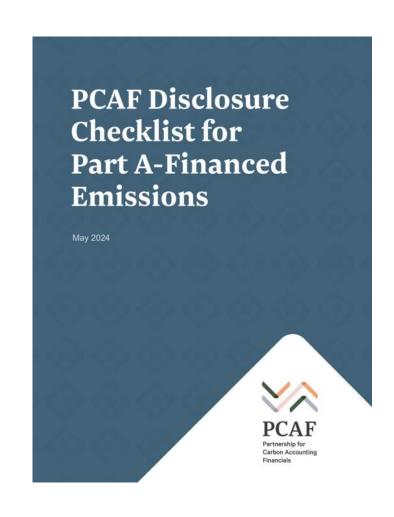
The PCAF Disclosure Checklist: further standardizing disclosures and growing the value-add of disclosing through PCAF

What is the Disclosure Checklist?

- A checklist to assess the alignment of financial institution's disclosure of emissions with the PCAF Standard.
- A tool developed with the aim of providing a holistic way to standardize and improve the quality of PCAF disclosures over time.
- A requirement for all financed emissions disclosures on the PCAF website from 1
 January 2025. Completing the checklist and having it evaluated by PCAF's Technical
 Assistance team, will be part of PCAF's disclosure process from next year.

To embed the Disclosure Checklist in our Signatories' reporting processes we will be:

- Providing additional touchpoints (Q&A sessions and TA support) throughout the year
- Providing a training on filling in the Disclosure Checklist on the PCAF Academy
- Inviting Signatories to apply the Disclosure Checklist to previous disclosures for the TA team to review





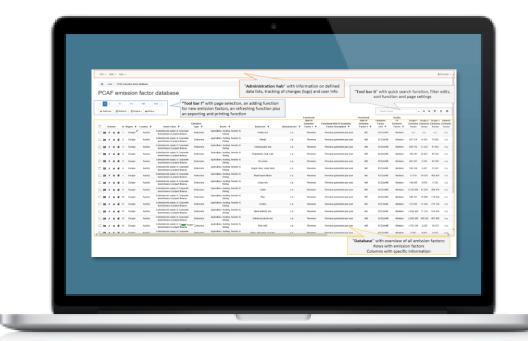




PCAF Database

PCAF's database enables financial institutions to start with GHG accounting at asset class level

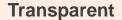
- Directly based on the PCAF methods to kick-start the assessment of emissions associated with financial activities
- Including emission factors for the Insurance Associated Emission Standard Lines of Business
- Hotspots the most emissions intensive emissions attributed to bank, investor or re/insurer
- Link to register: https://db.carbonaccountingfinancials.com/register.php



Available for PCAF signatories



Set of publicly available emission factors across geographies and asset classes





Includes data quality score card



PCAF Database updates planned for September 2024

Economic emission factors

- Add new economic emission factor dataset for use at a more granular (sub-sector, country) level.
- Formed sub-working group to support development of improved economic emission factor dataset.
- Development long-term plan.

Physical emission factors

- Current scope of production emissions provided in the Database is limited in its sector and geographic coverage.
- Expand dataset to cover emission factors for the most important categories.
- Starting with fossil fuel operations, materials, and mining of raw materials.

Motor vehicle loans

- Update and expand the motor vehicles dataset.
- Add other vehicle categories beyond personal vehicles, vans and trucks (i.e., airplane, ship, train, tram).
- Add emission factors for non-European vehicle brands (passenger cars).
- Update distance driven for emission factors with DQS 3, 4 and 5.



The PCAF Academy strives to deliver consistency, comparability and quality of financial institutions' accounting and disclosure of GHG emissions



The PCAF Academy aims to elevate the quality of financed, facilitated and insurance-associated emission accounting, driving standardized interpretation and application of the PCAF Standards, and enabling participants to take independent steps in their decarbonization journeys

What is the PCAF Academy?



The PCAF Academy is a **self-paced online learning program** providing multiple modules, examinations and more The Academy also provides an optional official "**PCAF accreditation program**" – allowing individual learners to become PCAF certified



Online course self-paced



Learning modules









Who is the PCAF Academy for?

All PCAF Signatories and Accredited Partners



The PCAF Academy is an e-learning for financial institutions platform to build expertise in greenhouse gas (GHG) accounting

The PCAF Academy aims to elevate the quality of financed emission accounting, driving standardized interpretation and application of the PCAF Standards, and enabling participants to take independent steps in their decarbonization journeys



What is the PCAF Academy?

The PCAF Academy is a **self-paced online learning program** providing multiple modules, examinations and more

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Online course self-paced



Learning modules



Exams – in-module and final exam



Helpdesk

>>> PCAF



Community & discussion forum

Coverage of All Three PCAF Standards: A, B & C



The PCAF Academy's impact since its launch in September 2023



50+ Accredited learners



700+ Learners enrolled



220+ Financial institutions

Learning content required for Certification*







*This may vary across Standards







Certificate



The PCAF Academy syllabus covers all aspects of the Standard¹including additional downloadable documents and video content

SYLLABUS¹

- 1) Introduction to PCAF and its Purpose 🛄
- 2) Listed Equity & Corporate Bonds 🛄 🗏
- 3) Unlisted Equity & Business Loans 🛄 🗏
- 4) Project Finance 🛄 🗏
- 5) Commercial Real Estate & Mortgages [1]
- 6) Motor-Vehicle-Loans 🕮 🗏
- 7) Sovereign Debt 🕮 🗏
- 8) Database and Application of Emission Factors 🛄 🗐
- 9) Reporting Requirements as per the Standard 🛄 🗏
- Final examination

¹The first release of the PCAF Academy will be focused on Standard Part A – Financed Emissions



Preview of what the online **PCAF Academy** Academy platform looks like Course Outline Chapter 4.1: Asset Class Definition and Emission Scopes Covered Welcome! Completed Module 1: Introduction and Purpose Asset class specific learning Module 2: Listed Equity and Corporate Bor In Progress videos Module 3: Business Loans and Unlisted Equ Module: 3 Exam Module 4: Project Finance PCAF Academy_Module 4_Chapter () 15 mins of work Module 5: Commercial Real Estate and Mo Part A Financed Emissions specific approach to calcu Module 6: Motor Vehicle Loans Module 7: Sovereign Debt Take Ouiz Module 8: PCAF Database Module 9: Reporting Requirements A FI would like to calculate the attribution factor for business loans to listed companies. What is the right Final Examination: Calculating Financed En Dividing the outstanding loan amount by total equity and debt of the company > PC₁F → 00:31 / 03:22 Dividing the outstanding loan amount by enterprise value including cash of the company Multiplying the outstanding loan amount by total equity and debt of the company Key Takeaways . The Project Finance asset class include designated for specific purposes, i.e., v How is Enterprise Value Including Cash (EVIC) defined? The sum of the market capitalization of ordinary shares at fiscal year-end, the market capitalization of preferred shares at fiscal year-end, and the book values of total debt and minorities' interests. No deductions of cash or cash equivalents are made to avoid the possibility of negative enterprise values. The sum of the market capitalization of ordinary shares at calendar year-end, the market capitalization of preferred shares at calendar year-end, and the book values of total debt and minorities' interests, Cash or cash In-module examination

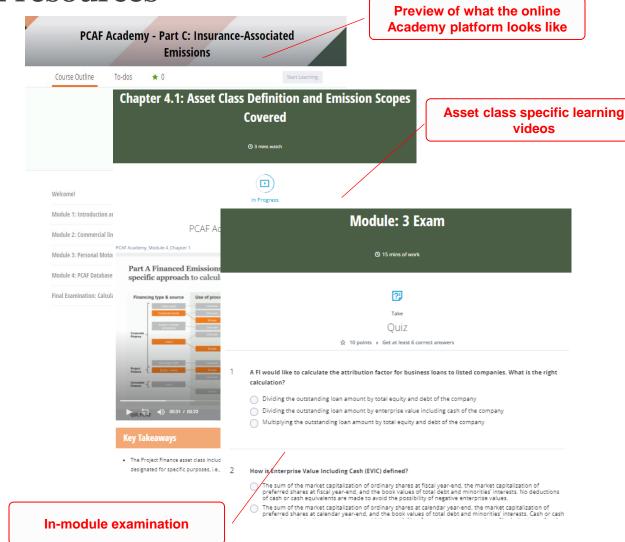
The PCAF Academy now includes courses for Parts B and C of the Standard, including video content and additional resources

SYLLABUS - Part B

- 1) Introduction to PCAF and its Purpose 📖 儡
- 2) Facilitated Emissions 🔟 🔐
- Final examination

SYLLABUS – Part C

- 2) Commercial Lines 🛄 🔐
- 3) Personal Motor Lines 🛄 🔐
- 4) Reporting Requirements 🕮 🔐
- Final examination



What is the PCAF Academy Accreditation program?

The PCAF Accreditation Program¹ provides individual learners with the opportunity to showcase their deep understanding of PCAF, emission footprinting and disclosure.

How to get accredited:

If an individual learner chooses to become PCAF accredited, the PCAF Academy learning journey must be completed with a success rate of ≥80%. Upon completion of the learning journey, the individual learner will be issued an official PCAF certificate of completion – PCAF's way of honouring the learner's knowledge.



Learning Journey 1

For: Banks and Financial Services

In order to get accredited, signatories need to complete the following courses:

- Part A: Financed Emissions
- Part B: Facilitated Emissions
- Optional: Part C: Insurance-Associated Emissions

Learning Journey 2

For: Asset Managers/Owners and Export Credit Agencies

In order to get accredited, signatories need to complete the following courses:

- Part A: Financed Emissions
- Optional: Part B: Facilitated Emissions
- Optional: Part C: Insurance-Associated Emissions

Learning Journey 3

For: Re/Insurance Companies

In order to get accredited, signatories need to complete the following courses:

- Part A: Financed Emissions
- Part C: Insurance-Associated Emissions
- > Optional: Part B: Facilitated Emissions







Financing towards net-zero buildings

Ongoing project launched by PCAF launched in 2022: Financing towards net-zero buildings

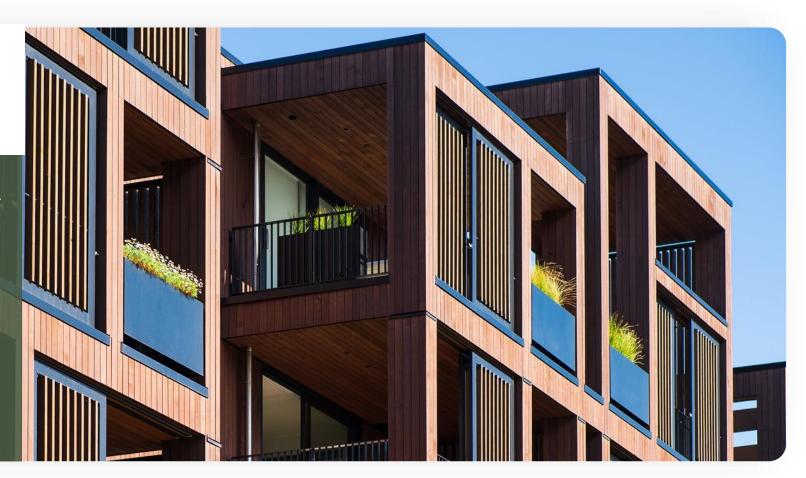
Financing towards net-zero buildings A PCAF project

Mobilizing the financial industry to accelerate their actions to transition

European buildings (including mortgages and real estate portfolios) to net zero and make the impact of those actions transparent via clear carbon accounting

Developed a <u>European buildings emission factor</u> <u>database</u> (publicly available)

Read more on our website



Mobilizing the financial industry to decarbonize buildings in Europe

Mobilizing the financial industry to accelerate their actions to transition

European buildings to net zero and make the impact of those actions transparent

via clear carbon accounting

Establishing a core project team and creating and implementing a communication strategy

Enabling financial institutions to measure and track the climate impact of their mortgage and real estate portfolios and their actions towards net zero

Understanding the challenge towards net zero and creating of a good practice guideline on financing the European building transition to net zero



Financing towards net-zero buildings: key dates

2023	Date	Event Description	
	May 15 th , 2023	Workshop financial institutions on sustainable finance products	During these workshops, sustainable finance products and non-financial products with a link to building performance will be discussed
	June 30th, 2023	Database update	The emission factors will be updated, even as the tools in the database (e.g. emission factor map)
	July 31 st , 2023	Report on actual data measurement initiatives	Report that summarizes different ways to measure actual data
	September 15 th , 2023	Workshop II on sustainable productsGFI Roudtable I	Share best practices within the financial industry
2024	February 15 th , 2024	GFI Roundtable II	Share best practices within the financial industry
	April 15 th , 2024	Database update II	The emission factors will be updated, even as the tools in the database (e.g. emission factor map)
	May 15 th , 2024	GFI Roundtable III	Share best practices within the financial industry



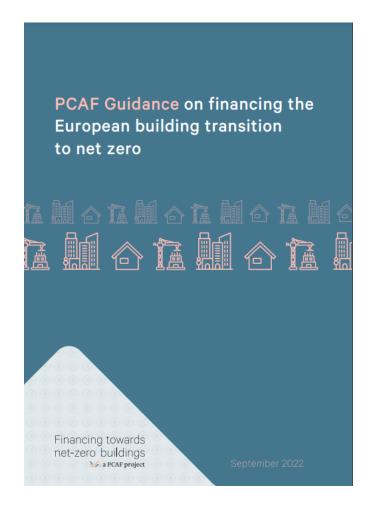
Guidance on financing the European building transition to net zero

Aim to provide clear guidance to financial institutions how to initiate the net-zero journey and decarbonize their building portfolios along a stepwise approach

Review by Core Project Team, Expert Advisory Group and further stakeholders

Launched in September 2022

Link to the Guidance



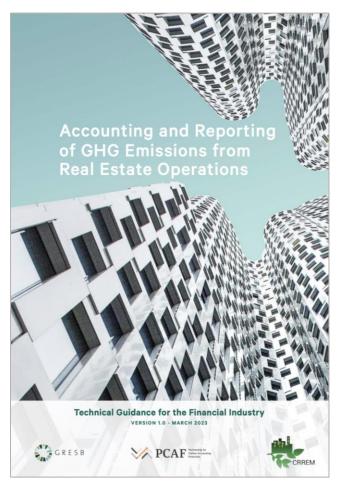


Technical Guidance by PCAF, CRREM and GRESB for Real Estate Operations

Aim to provide financial institutions and related stakeholders with transparent, consistent and harmonized guidance Additional specifications to PCAF's Global GHG Accounting and Reporting Standard for the Financial Industry on a range of technical, data and standards issues relating to GHG from real estate

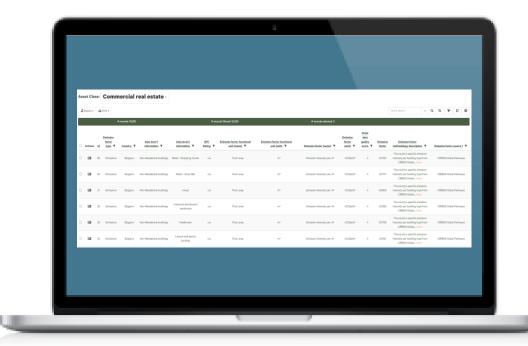
Launched in March 2023

Link to the Technical Guidance



PCAF's European building emission factor database

- Provides a diverse set of emission and energy factors for residential and non-residential building types
- Covers all countries in the European Union, Bosnia-Herzegovina, Kosovo, Norway, Serbia, Switzerland, Türkiye and the United Kingdom
- Link to register: https://building-db.carbonaccountingfinancials.com/



Available for free to all financial institutions



Based on publicly available sources (CRREM Global Pathways)





Includes data quality score card







PCAF Accredited Partner Program

PCAF has developed an accredited partner program to provide firms with access to:

- The PCAF Database for use with PCAF Signatories,
- Technical assistance from PCAF experts,
- The PCAF Academy, a self-paced online learning platform,
- And other benefits.

This partner program is open to **data providers**, **software providers** and **consultants/advisors** who support financial institutions in the reporting and disclosure of GHG emissions associated with financial activity.

Current partners include:



S&P Global



If you, or a service provider you work with, are interested to learn more about the PCAF Partner Program, please reach out to info@carbonaccounting.com for more information.



PCAF Partnership Program update

S&P Global Sustainable1 announced as Principal Founding Data Partner to PCAF.

"Our collaboration with S&P Global represents a significant step forward in our efforts to standardize emissions measurement and reporting across the financial sector. By sharing our resources and expertise with this industry-leading organization, we aim to elevate transparency and comparability across the international financial sector."

Angélica Afanador, Executive Director of PCAF

If you have potential PCAF Partners in mind (Consultancies, Data Providers or Software Providers), please ask them to contact info@carbonaccounting.com for more information.



partners with









Thanks a lot.

For more info, please contact PCAF

info@carbonaccountingfinancials.com