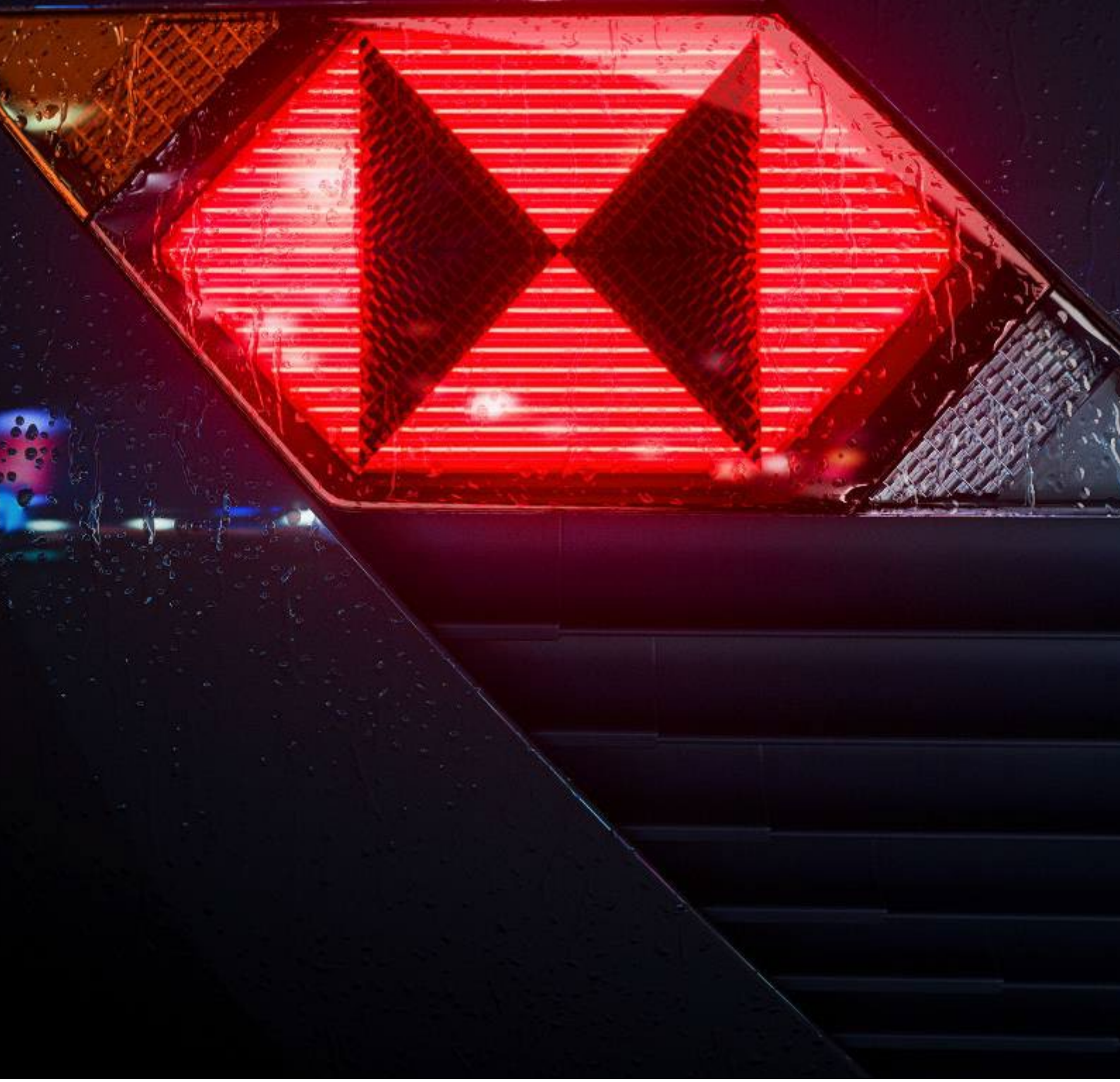


# Financed Emissions and Thermal Coal Exposures Methodology

February 2025



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# How we measure financed emissions

Financed emissions are calculated based on guidance from the Partnership for Carbon Accounting Financials ('PCAF'), which defines how financial institutions should account for their scope 3 category 15 (investments) emissions (otherwise known as their financed emissions).

Our model estimates counterparty emissions and attributes a proportion of these emissions to the client responsible for financing them. Specific calculations vary by asset class and sector and HSBC's methodology follows the PCAF Standards<sup>1</sup>. Any divergence is explained within the methodology below.

Our analysis of financed emissions comprises of 'on-balance sheet financed emissions' and 'facilitated emissions', which we distinguish where necessary in our reporting.

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## On-balance sheet financed emissions

The on-balance sheet calculation, shown below, uses company emissions and an attribution factor to assign emissions to HSBC's financing activities for general corporate purposes (i.e. unknown use of proceeds as defined by the GHG Protocol<sup>2</sup>).

$$\text{On-balance sheet financed emissions} = \sum_c \text{attribution factor}_c \times \text{emissions}_c$$

Where company (c) is defined as a borrower or investee.

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<sup>1</sup> PCAF (2022). The Global GHG Accounting and Reporting Standard Part A: Financed Emissions. Second Edition and PCAF (2023) The Global GHG Accounting and Reporting Standard Part B: Facilitated Emissions for the Financial Industry.

<sup>2</sup> GHG Protocol (2022): Category 15 – investments

## Attribution factor

The attribution factor, defined as HSBC's share of total annual greenhouse gas ('GHG') emissions of each counterparty, is calculated by taking HSBC's outstanding amount of financing divided by a measure of company value. The calculation and its components are summarised as follows:

$$\text{Attribution factor} = \frac{\text{outstanding amount}_c}{\text{company value}_c}$$

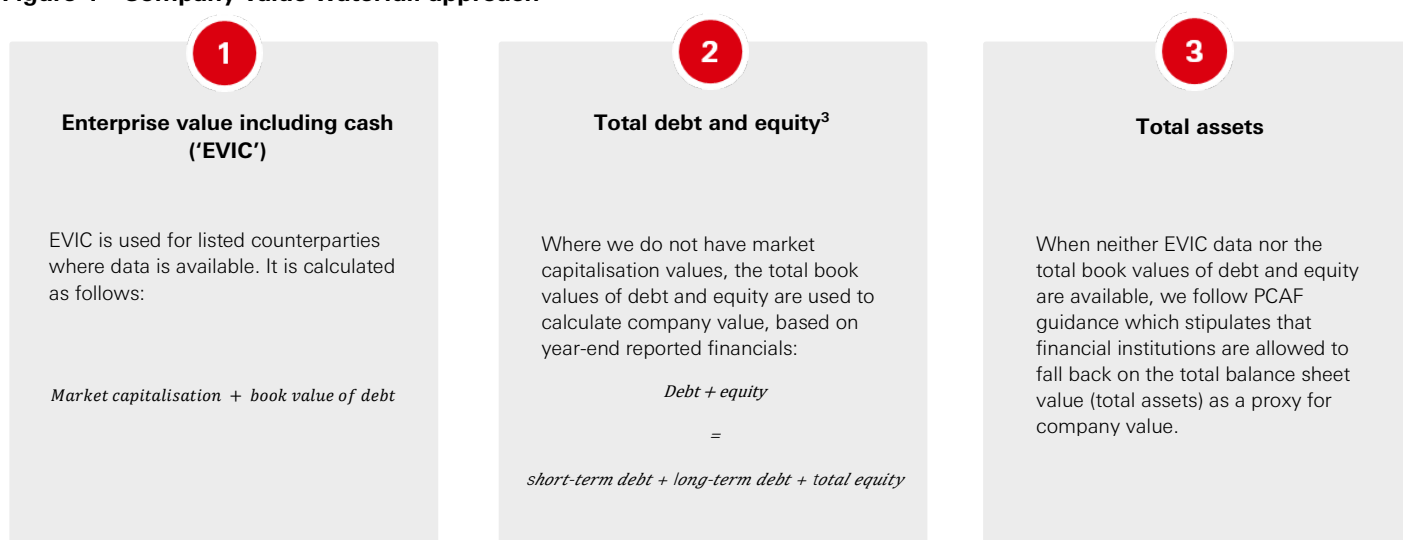
Where  $c$  = borrower or investee company, and

outstanding amount = drawn amount<sup>3</sup> which is sourced from HSBC systems at year-end.

## Company value data

Company value from external data providers is sourced based upon a waterfall hierarchy determined by quantitative and qualitative factors. Private firms do not have market capitalisation values, so total debt and equity is used to calculate company value.

**Figure 1 - Company value waterfall approach**



## Facilitated emissions

Facilitated emissions for capital underwriting activities are calculated and reported separately to on-balance sheet financed emissions.

Capital underwriting "facilitates" access to financing, but underwriters do not provide financing directly to clients. The calculation of facilitated emissions is based on the flow (annual transaction volume) instead of a stock (outstanding balance) as for financed emissions. This is reflective of the transactional nature of capital markets activities and the time period during which banks generate revenue from capital markets activities. We do not differentiate between equity and debt capital markets in our facilitated emissions methodology.

<sup>3</sup> For business loans, this is defined as the value of the debt that the borrower owes to the lender (i.e., disbursed debt minus any repayments). It will be adjusted annually to reflect the correct exposure, resulting in the attribution to decline to 0 at the end of the lifetime of the loan (i.e., when it is fully repaid). at a fixed point in time (calendar year end).

<sup>4</sup> When the total equity value of a company is negative when applying total debt and equity, it is floored as 0 and book value of debt is considered in line with PCAF guidance. To be more conservative, total assets is used if equity value is unavailable and debt value is 0 or unavailable.

The model produces two sets of outputs for facilitated emissions at different weighting factors, using the transaction volume over 1 year.

The calculation and its components are summarised below.

$$\text{Facilitated emissions} = \sum_c \frac{\text{facilitated amount}_c}{\text{company value}} \times \text{weighting factor} \times \text{annual emissions}_c$$

Where company (c) is defined as the issuing company.

## Attribution factor

The attribution factor uses league table credit, total raised amount of the counterparty, a weighting factor and the company value of the firm. To split the total emissions facilitated to different arrangers (facilitators), we assign responsibility based on league table credit and split deals based on apportioned volume of the lending value provided by Dealogic.

The attribution factor numerator was set to the facilitated amount in which HSBC is a bookrunner for equity capital markets ('ECM') and debt capital markets ('DCM') and bookrunner or mandated lead arranger (or mandated lead manager) for syndicated loans, whereas the denominator corresponds to the total company value, analogous to financed emissions.

For the facilitated amount, the apportioned value in USD field from Dealogic is utilised in alignment with the criteria for the Dealogic league table credit, without any further currency conversion performed.

The Dealogic data for 2023 was extracted in June 2024.

- ◆ For DCM, short-term debt and money market transactions are excluded due to the minimum period threshold requirements.
- ◆ For ECM, shelf deals are excluded as such deals are only filings for companies to register their interest in issuing new securities in the future and are not offerings in themselves.
- ◆ Transactions excluded from the analysis are asset backed securities, mortgage-backed securities, government bonds, and bonds issued by multinational organisations as these are out of scope for the facilitated emissions analysis.
- ◆ For syndicated loans, the bookrunner apportioned value is calculated by Dealogic through equal apportionment of bookrunner-eligible deal value among bookrunners. The mandated lead arranger (or mandated lead manager) apportioned value is calculated by Dealogic through equal apportionment of all eligible deal value among mandated lead arrangers (or mandated lead managers). In Dealogic, all bookrunners are automatically also assigned as a mandated lead arranger (or mandated lead manager) role on the deal. On loan deals where HSBC is both a bookrunner and mandated lead arranger (or mandated lead manager), the apportioned value for the bookrunner may differ to the apportioned value for the mandated lead arranger (or mandated lead manager)<sup>5</sup>.

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<sup>5</sup> For syndicated loans, where HSBC has both a bookrunner role and mandated lead arrangers (or mandated lead managers), the apportioned value for the bookrunner will be utilised if available, and if not available, then the apportioned value for the mandated lead arranger (or mandated lead manager) will be retained.

## Company value data

Company value from external data providers is sourced based upon a waterfall hierarchy, determined by quantitative and qualitative factors (see Figure 1 on page 5).

## Weighting factor

As per the PCAF Standard for Facilitated Emissions, the figures are weighted at 33% but we also disclose values at 100% weighting. For 100% values, please refer to the Annual Report and Accounts 2024 ESG Data Pack.

## Project financed emissions

This asset class includes all loans to projects for specific purposes (i.e., with known use of proceeds as defined by the GHG Protocol that are on the balance sheet of HSBC).

When evaluating project finance deals, we consider them at the point of financing, which can occur during either the construction phase or the operational phase. We do not differentiate between operation and construction in our assessment, as the construction phase is crucial for a project to become operational. Where project level data is available – either projected or actuals – we base our emissions estimates using those project level data points.

To calculate emissions, only the financed (ring-fenced) activities are included. Emissions and financials related to existing activities outside the financed project but within the financed organisation are not considered. Project level details are captured for facilities that are identified as project finance.

$$Project\ financed\ emissions = \sum_p attribution\ factor_p \times emissions_p$$

*Where p = project.*

Data for projects, including project-level financials, production, and activity type, are sourced manually from appropriate deal documentation. As a result, not all data necessary for project-level calculations is available. In cases where the data is available at a project level, the methodology for attributing emissions follows the project finance calculation methodology. In cases where we are unable to obtain project level production data, revenue is used at project level. If revenue is not available at project level, the project is treated as general lending using the standard calculation within the model. If the counterparty group is not part of the general lending, then the project is treated as PCAF data quality score five, using the standard calculation within the model.

## Attribution factor

$$\text{Attribution factor} = \frac{\text{outstanding amount}}{\text{equity}_p + \text{debt}_p}$$

Where  $p$  = project, and

outstanding amount = drawn amount<sup>6</sup> which is sourced from HSBC systems at year-end.

## Project-specific data

For project equity and debt, total assets, production and revenue data at the project level are available from internal HSBC sources. When debt and equity are not available, we follow PCAF guidance which stipulates that financial institutions are allowed to fall back on the total balance sheet value (project's total assets) as a proxy.

## Emissions estimation

PCAF provides guidance on estimating emissions using different data sources. Emissions can be estimated using data on production, revenue, or outstanding loan amounts in combination with emission factors specific to that data.

PCAF provides a data quality scorecard with specific guidance per asset class to prioritise data used in emissions calculations. PCAF provides guidance on data quality scoring for each asset class to help ensure that financial institutions use the best available data in accordance with the data hierarchy shown in Figure 2 on page 9. We endeavour to use the best available dataset according to PCAF but at this stage, we have prioritised the use of third-party vendor data to help ensure data consistency. PCAF provides recommendations to financial institutions to score and disclose data quality, and to seek to improve data quality over time. In general, a lower PCAF data quality score is preferred.

Data sources are assessed to define the hierarchy in which they are used at a point in the year that enables us to perform the necessary data sourcing and validation required to meet our annual disclosures. When multiple data sources are available, they are ranked based on an analysis of both quantitative and qualitative factors.

The data supplied by third-party vendors in many instances is considered to be the highest quality data available, coming from third-party sources including Refinitiv, Bloomberg, Standard and Poor's ('S&P'), Institutional Shareholder Services ('ISS') and Asset Impact.

Finally, where data is not available from third-party vendors or outliers are identified, data is sourced directly from companies for material counterparties (through annual reports or other disclosures).

Emissions are reported on an annual basis and are aligned to the reporting year (1 January to 31 December year-end).

When calculating revenue or asset-based proxies, emissions are estimated using emissions factors which are calculated based on the latest available data.

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<sup>6</sup> For project finance, this is defined as the value of the debt that the borrower owes to the lender (i.e., disbursed debt minus any repayments). It will be adjusted annually to reflect the correct exposure, resulting in the attribution to decline to 0 at the end of the lifetime of the loan (i.e., when it is fully repaid). at a fixed point in time (calendar year end).



Figure 2 - Emissions data hierarchy

| PCAF data quality score <sup>7</sup> | Proxy type                     | Calculation  | Data required   | Description  |
|--------------------------------------|--------------------------------|--|---|--|
| 1                                    | N/A                            | N/A  | Counterparty reported emissions data (verified).  | -  |
| 2                                    | N/A                            | N/A  | Counterparty reported emissions data (unverified).  | -  |
| 3                                    | Estimate of physical intensity | Primary physical activity of counterparty's production consumption x emissions factors specific to primary data. | <ul style="list-style-type: none"> <li>◆ Counterparty production data</li> <li>◆ Emissions factors</li> </ul>                     | <ul style="list-style-type: none"> <li>◆ Emissions are aggregated from asset level production-based emissions data from third-party vendors or;</li> <li>◆ Emissions are calculated using primary physical activity data for the counterparty's production and emissions factors specific to that primary data.</li> </ul> |
| 4                                    | Estimate of revenue intensity  | Counterparty revenue x emissions factors for the sector.   | <ul style="list-style-type: none"> <li>◆ Counterparty revenue data</li> <li>◆ Emissions factors</li> </ul>                        | <ul style="list-style-type: none"> <li>◆ Sector-based emissions factors are calculated from third-party vendor sector population at a regional level.</li> </ul>   |
| 5                                    | Estimate of asset intensity    | Outstanding amount in the counterparty x emissions factors for the sector  | <ul style="list-style-type: none"> <li>◆ Outstanding amount provided to the counterparty.</li> <li>◆ Emissions factors</li> </ul> | <ul style="list-style-type: none"> <li>◆ Sector-based emissions factors are calculated from third-party vendor sector population at a regional level</li> </ul>  |

## Production emissions factors

Production-based counterparty emissions are sourced from Asset Impact on the basis of the financial control consolidation approach<sup>8</sup>, when available. If unavailable, they are estimated by multiplying the counterparty production volume by a physical emissions factor appropriate for the sector and the production technology. Physical emissions factors are sourced from publicly available information.

For automotive counterparties, when emissions are sourced from Asset Impact, the scope 3 emissions are used to derive the scope 1 and 2 emissions not supplied by Asset Impact. These scope 1 and 2 emissions are then calculated using scaling factors derived from revenue intensities.

## Model governance

HSBC Holdings plc is responsible for the preparation and reporting of financed emissions information and all the supporting records, including selecting appropriate measurement and reporting criteria, in our Annual Report and Accounts, the ESG Data Pack and the additional reports published on our website.

<sup>7</sup> (score 1 = highest, score 5 = lowest quality)

<sup>8</sup> PCAF (2022). The Global GHG Accounting and Reporting Standard Part A: Financed Emissions. Second Edition and PCAF (2023) The Global GHG Accounting and Reporting Standard Part B: Facilitated Emissions for the Financial Industry, p. 123.

The model that we have developed to calculate our financed emissions baselines is subject to a governance process for all sectors that includes input from model users and peer review from external consultants and senior stakeholders across our businesses and functions. Subject matter experts from Global Banking and Markets and Commercial Banking reviewed and challenged model design choices and assumptions through a series of workshops. Model development and outputs are governed by the Financed Emissions Analysis Working Group. This meeting is made up of senior representatives across Global Banking and Markets and Commercial Banking, and business functions (Group Sustainability, Global Finance, Global Risk and Compliance, Data Architecture Office, Legal, Investor Relations). Subject matter experts and external consultants are also invited where appropriate. The Financed Emissions Analysis Working Group is overseen by the Emissions and Exposures Steering Committee and the Group ESG Committee.

In addition to these meetings and discussions, the end-to-end model was also subject to HSBC's three lines of defense governance processes.

# Our design choices

## Scope of analysis

When assessing financed emissions, we focus our analysis on those parts of the sector that we believe are most material in terms of GHG emissions, and where we believe engagement and climate action have the greatest potential to effect change.

Model scope is subject to change as industry methodologies evolve and data availability improves. We expect to revisit design choices as our methodology continues to develop.

## Asset classes and products

Our analysis covers financing from Global Banking and Markets and Commercial Banking, as the sectors and parts of the value chain that we currently include have limited retail exposure.

We calculate on-balance sheet financed emissions using the apportioned value of on-balance sheet financing related to wholesale credit and lending, which includes business loans, and project finance. Internal analysis of on-balance sheet lending products was used to determine which should be qualified for inclusion and which should be excluded.

We only include products for which the typical original term is 12 months or longer, having considered PCAF guidance and consulted with subject matter experts from the business. The exclusions based upon product type are:

- ◆ Assets that are short term by design and are typically less than 12 months in duration;
- ◆ Interest bearing and non-interest-bearing current accounts;
- ◆ Balances with corresponding banks;
- ◆ Auto loans; and
- ◆ Market products.

Products are treated as project finance for calculation purposes based on the use of proceeds, where the data is available for the calculation. When use of proceeds or necessary data are unknown, they are treated as general lending.

For facilitated emissions, we consider all capital market transactions in scope for the year of analysis. These include debt and equity capital markets and syndicated loans. We limit the calculation to DCM and ECM transactions in which HSBC has a bookrunner role, and syndicated loan transactions in which HSBC has either a bookrunner or lead manager role.

We exclude products where we consider there is a weak link to production activities. We continue to engage with industry bodies to help formulate our methodology for assessing and measuring financed emissions.

Regarding the different types of GHGs measured, we measure in CO<sub>2</sub> equivalent (CO<sub>2</sub>e) using the Global Warming Potential ('GWP'<sup>9</sup>) framework detailed by the GHG Protocol. We may consider analysing methane (CH<sub>4</sub>) separately in the future as data and methodologies are made available.

We do not include avoided emissions in our calculations. These are emission reductions that a financed project produces versus what would have been emitted in the absence of the project (the baseline emissions).

## Sectors and GHG scopes

Figure 3 below shows the scope of our financed emissions analysis for the seven in-scope sectors, including upstream, midstream and downstream activities within each sector. The allocation of companies to different parts of the value chain is highly dependent on expert judgement and data available on company revenue streams. As data quality improves, we expect this will be further refined.

**Figure 3 - Scope of our analysis**

| Sector                    | Scope of emissions                        | Value chain in scope                         |   |   |
|---------------------------|---|--|---|---|
|                           |   | Upstream                                     | Midstream   | Downstream  |
| Oil and gas               | 1, 2 and 3                                | <b>Upstream</b><br>(e.g. extraction)         | Midstream<br>(e.g. transport)                               | Downstream<br>(e.g. fuel use)                             |
| Power and utilities*      | 1, 2                                      | <b>Upstream</b><br>(e.g. generation)         | Midstream<br>(e.g. transmission and distribution)           | Downstream<br>(e.g. retail)                               |
| Cement                    | 1 and 2                                   | Upstream<br>(e.g. raw materials, extraction) | <b>Midstream</b><br>(e.g. clinker and cement manufacturing) | Downstream<br>(e.g. construction)                         |
| Iron, steel and aluminium | 1 and 2                                   | Upstream<br>(e.g. raw materials, extraction) | <b>Midstream</b><br>(e.g. ore to steel)                     | Downstream<br>(e.g. construction)                         |
| Aviation                  | 1 for airlines,<br>3 for aircraft lessors | Upstream<br>(e.g. parts manufacturers)       | Midstream<br>(e.g. aircraft manufacturing)                  | <b>Downstream</b><br>(e.g. airlines and aircraft lessors) |
| Automotive                | 1, 2 and 3                                | Upstream<br>(e.g. suppliers)                 | <b>Midstream</b><br>(e.g. motor vehicle manufacture)        | Downstream<br>(e.g. retail)                               |
| Thermal coal mining       | 1, 2 and 3                                | <b>Upstream</b> (e.g. extraction)            | Midstream<br>(e.g. processing)                              | Downstream<br>(e.g. retail)                               |

\* The power and utilities value chain has been updated to show diversified power generation as a separate part of the value chain. This has always been included in-scope of the power and utilities target.

<sup>9</sup> Greenhouse Gas Protocol - Global Warming Potential Values

The scope of clients analysed is determined based on sector classifications assigned using expert judgement from global relationship managers based on their relationship and knowledge of the customer's activity, with supporting data from NACE (European Nomenclature of Economic Activities) and NAICS (North American Industry Classification System) codes assigned at the issuer level, consistent with third-party vendor datasets. NACE codes are used for on-balance sheet financing related to wholesale credit and lending clients and NAICS codes are used for capital markets transactions. In order to conduct necessary validation steps and perform calculations in time for our Annual Reports and Accounts, we allocate clients to a sector at an early point in the year, adopting the counterparty group structure used at that time.

For the capital markets portfolio, we use the same approach as used for the wholesale lending portfolio to help ensure that financed and facilitated emissions methodologies are aligned. Where there is no existing confirmed sector classification from the wholesale credit lending portfolio for the facilitated emissions population, we use NAICS classifications to help determine the nature of a customer's main activity. As data availability improves, we aim to strengthen our analysis of company groups by providing greater granularity, focusing our analysis at the issuer level.

As the scope of clients is mapped at the counterparty group level this may include subsidiary deals that may not be individually considered as in scope based on their activity or NAICS code, and it also may exclude deals that may individually be considered as in-scope where the counterparty or parent is not. For instance, a counterparty group that is in-scope for power and utilities may contain deals that are outside of the power and utilities sector value chain (e.g. deals with NAICS of "Electric Power Transmission, Control, and Distribution"); in reverse, deals that are in-scope for power and utilities (e.g. deals with NAICS of "Electric Power Generation") may be out of scope for power and utilities if the counterparty group is in-scope for a different sector (e.g. cement).

For project finance, we use the wholesale lending financed emissions population as a basis for the initial data sourcing population and also include all project finance deals related to in-scope NACE codes.

## **Allocation of counterparties to sector and value chain**

For the wholesale lending portfolio, we use NACE codes and internal wholesale industry classifications to help determine the nature of a customer's main activity.

NACE codes are assigned to a counterparty at the counterparty group level by calculating the NACE with the highest and second-highest approved lending limits. The NACE classification codes used to select the in-scope counterparties are provided in Figure 4. Where a counterparty has an in-scope wholesale industry classification or an in-scope NACE code (based on the counterparty-level highest and second-highest NACE), we propose it under that respective sector for assessment in the second stage (with primacy given to the wholesale industry classification if the proposed sectors are different). In the second stage, the proposed sector for counterparties with exposures over a minimum threshold is validated by the business to confirm whether in or out of scope and to confirm the part of the value chain in which a counterparty group operates.

In circumstances where the largest total lending limit is associated with a financial or holding company NACE code, but the primary economic activity of that counterparty group is proposed to be in scope, we would still include the counterparty group in our analysis. As data availability improves, we plan to strengthen our analysis of counterparty groups by providing greater granularity, focusing our analysis at the individual counterparty level.

When a company has activities in more than one sector, the counterparty is assigned by the business to the sector where it has the majority revenue, based upon available data. Furthermore, based upon revenue data where available, if a counterparty group has diversified activities in three or more sectors, and none of these contribute a majority of revenues, it is then classified as a conglomerate. Where evidence is not readily available to determine revenue, a conglomerate classification can be assigned by the business based upon supporting evidence. Counterparty groups identified as conglomerates are excluded as these can have different activities covered by multiple sector targets.

For the facilitated emissions population, we use NAICS codes to help determine the nature of a customer’s main activity where there is no existing confirmed sector classification from the wholesale lending portfolio. The NAICS classification codes used are provided in Figure 5.

| <b>Figure 4 - NACE codes in scope</b> | <b>Proposed sector mapping</b> |
|---------------------------------------|--------------------------------|
| 2910                                  | Automotive                     |
| 3091                                  | Automotive                     |
| 5110                                  | Aviation                       |
| 7735                                  | Aviation                       |
| 2351                                  | Cement                         |
| 0610                                  | Oil and gas                    |
| 0620                                  | Oil and gas                    |
| 3511                                  | Power and utilities            |
| 2410                                  | Iron, steel and aluminium      |
| 2442                                  | Iron, steel and aluminium      |
| 0510                                  | Thermal coal mining            |
| 0520                                  | Thermal coal mining            |

| <b>Figure 5 - NAICS codes in scope</b> | <b>Proposed sector mapping</b> |
|--|--------------------------------|
| 2111                                   | Oil and gas                    |
| 22111                                  | Power and utilities            |

## Setting targets

Our target-setting approach to date, for on-balance sheet financed emissions and facilitated emissions, has been to utilise a single reference scenario - IEA’s NZE 2021 - to underpin both energy supply-related sectors (oil and gas, power and utilities, and thermal coal mining) and our published targets for demand-side sectors in transport and heavy industry.

Facilitated emissions included in our combined metrics are weighted at 33%, in accordance with the PCAF Standard. To further reduce the inherent volatility in facilitated emissions, we apply a three-year moving average across transactions (i.e. average of 2021, 2022 and 2023 for the 2023 progress numbers) to track progress towards our combined target. This means that transactions facilitated in 2028 and 2029 will still have an impact on the 2030 progress number and will need to be taken into consideration as we manage progress towards our target.

Our approach for financed emissions accounting does not rely on purchasing credits to achieve any financed emissions targets we set.

In the upcoming review of our financed emissions targets, as described in our 2024 Annual Report and Accounts, we will seek to balance being ambitious on net zero while recognising present near-term global challenges, and the associated impact of the transition playing out differently across the regions and sectors we serve. In doing so, we plan to draw on the latest scientific evidence and credible industry-specific pathways while, at the same time, maintaining our commitment under our 2021 Climate Resolution.

We believe methodologies for calculating financed emissions and setting targets should be transparent, comparable and up-to-date, and should provide science-based insights that focus engagement efforts, inform capital allocation and support the development of solutions that are both timely and impactful. We continue to engage with regulators, standard setters, and industry bodies to help shape our approach to measuring financed emissions and managing portfolio alignment to best support the transition to net zero in the global economy. We also work with data providers and our clients to help us gather data from the real economy to improve our analysis.

Scenarios used in our analysis are modelled on assumptions of the available carbon budget and actions that need to be taken to limit the long-term increase in average global temperatures to 1.5°C with limited overshoot.

## Target scenario reference pathways

As there are many possible pathways, we have chosen scenarios which meet the criteria shown below. As stated, we plan to review our targets in 2025 to reflect the latest net zero scenarios and shifts in the real economy.

- ◆ The reference scenarios selected as our benchmarks form part of the analysis developed by the IEA in the World Energy Outlook ('WEO'). Choosing the IEA NZE 2021 scenario also allows us to make comparisons of our sector targets with other banks that use the same data to build a reference pathway.
- ◆ The IEA NZE 2021 scenario projects energy-related and industrial process carbon dioxide (CO<sub>2</sub>) emissions to 2030 in line with a 1.5°C warming outcome with no or low temperature overshoot.
- ◆ The scenario has low reliance on negative emissions technologies and we believe it has reasonable assumptions on carbon sequestration achieved through nature-based solutions and land use change.
- ◆ Key assumptions underpinning the IEA scenarios are publicly available.
- ◆ The scenario is peer-reviewed and uses a global energy model to generate sector-by-sector projections. The IEA's analysis and projections meet these criteria and have been used extensively for target setting and portfolio alignment.
- ◆ The IEA NZE 2021 scenario details more than 400 sectoral and technology milestones to help guide the global journey to net zero by 2050. We remain mindful that this scenario is one of many credible pathways to achieve net zero emissions globally by 2050 and there are many uncertainties that could affect any of these different pathways.

For each of the sectors, our sector deep dives provide more detail on any adjustments we make to build our sector reference benchmark.

## Target metrics

Both absolute financed emissions and financed emissions intensities are assessed in our analysis. We report on these metrics for our in-scope sectors but set targets on the most appropriate metric for each sector.

Absolute financed emissions reductions targets are set for the oil and gas and thermal coal mining sectors. This absolute emissions metric helps preserve a direct link to reducing GHG emissions in the real economy and allows us to assess our alignment with the IEA NZE 2021 scenario.

All other sectors have physical intensity-based targets where the emissions intensity is exposure weighted at sector level. Physical emission intensity metrics describe the attributed quantity of emissions released per unit of production

and vary based on the sector and specific activity data. We use this target metric to help enable climate-positive investment in the real economy by directing capital towards green technologies and transition solutions. This is in line with peers and industry guidance.

The impact of our capital markets activities is reflected in our combined financed emissions targets for the oil and gas and power and utilities sectors.

## **Sector targets**

We have set targets using the following forward-looking metrics:

- ◆ For oil and gas – combined absolute on-balance sheet and facilitated financed emissions percentage reduction target, by 2030 from a 2019 baseline. This is equal to the percentage reduction that the IEA indicates in its scenario for global sector emissions to 2030, from a 2019 baseline.
- ◆ For power and utilities – combined on-balance sheet and facilitated emissions intensity target, at 2030. This is equal to the global sector average emissions intensity for 2030 set out by the IEA.
- ◆ For thermal coal mining, we use an on-balance sheet absolute financed emissions percentage reduction target, by 2030 from a 2020 baseline. This is equal to the percentage reduction that the IEA indicates in its net zero emissions scenario for coal emissions. We use a 2020 baseline to align with the thermal coal phase-out policy for thermal coal financing exposure reporting metrics.
- ◆ For all other sectors, we have set on-balance sheet financed emissions intensity targets at 2030. Our emissions intensity targets are equal to the global sector average emissions intensity for 2030 set out by the IEA.



## Limitations

Our methodology is based upon the PCAF Standards. However, for particular counterparties, it has been necessary to deviate from the Standards across financed emissions, facilitated emissions across each sector and for thermal coal mining financed emissions. This has generally been due to data availability – in particular for the company value used in our estimates, production data for particular sectors, and details needed to calculate project specific emissions for our project finance portfolio. We rely primarily on third-party vendors for data accuracy, consistency and completeness and only add data collected through annual reports or other disclosures in selected cases where additional data can be found for material counterparties.

As we track financed emissions each year, estimates may vary subject to changes to data, movement in our client sector portfolio and financing, changes to company valuations and other market factors.

We remain conscious that the attribution factor used in the financed emissions calculation is sensitive to changes in drawn amounts or market fluctuations, and that financed emissions figures may not be reconcilable or comparable year-on-year. Our initial set of baselines and targets may require updating as data inputs, assumptions and methodologies evolve over time including updates of scenarios based on real world developments. We plan to report financed emissions and progress against our targets annually and seek to be transparent in our disclosures about the methodologies applied.

We expect our data quality scores to improve over time as clients continue to expand their disclosures to meet growing regulatory and stakeholder expectations. We have found that data quality varied across the different sectors and years of our analysis, although not significantly. We have noted that our data quality score has improved compared to prior periods across most of the sectors due to improved data collection for material clients and as companies continue to expand their disclosures to meet growing regulatory and stakeholder expectations. There may be upward or downward fluctuations in data quality scores within sectors year on year, and/or differences between the data quality scores between sectors due to more companies reporting emissions or a greater number of production statistics being available.

Our approach focuses on what we believe to be the most material parts of the sector value chains, and we seek to minimise double counting between the transactions within our portfolio. Double counting occurs when GHG emissions are counted more than once in financed emissions analysis and cannot be avoided. We remain committed to transparency around our methodology and scope of analysis.

The majority of our clients do not yet report the full scope of GHG emissions included in our analysis, in particular scope 3 emissions. In the absence of client-reported emissions, we estimate using proxies based on company production and revenue figures. Although we sought to minimise the use of non-company-specific data, we applied industry averages in our analysis where company-specific data was unavailable. As data improves, we expect estimates to be replaced with reported figures.

Third-party data sets that feed into our analysis may have up to a two-year lag in reported emissions figures, and we are working with data providers to help reduce this. Mapping external datasets to our internal client entities is challenging due to complex company ownership structures and due to checks, calculations and assurance requirements, we take the data as it corresponds to our internal company hierarchy for counterparties and counterparty groups at a specific point in time.

Given that the attribution factor (in line with the PCAF Standard) used for financed and facilitated emissions calculation is sensitive to changes in drawn amounts or market fluctuations, we plan to be transparent around drivers for change to portfolio financed emissions where possible.

For facilitated emissions, we currently rely on one third-party vendor Dealogic to obtain the in-scope capital market transactions and for thermal coal mining, we are also dependent on one third-party vendor Asset Impact to estimate thermal coal-related financed emissions.

As we refine our methodology and approach, we hope to improve data linkages, work with data providers and industry bodies to improve the availability of certain data points, and to collect additional data from companies directly as part of our ongoing engagement process.

Additionally, we are currently working on refining our data capture processes to identify use of proceeds such as green loans and green bonds to include them in the financed emissions calculations.

Within production data, gaps are currently present in availability of asset level production data across the most emissive sectors and further development across third-party vendors is required to build modelled bottom-up data for physical intensity alignment metrics. If the split of emissions scopes is not provided by a third-party vendor for production-based emissions estimates, then they are calculated by apportionment using scaling factors derived from PCAF data quality 4 emissions factors. This was done to avoid inconsistencies in estimates, for instance where scope 1 and 2 were taken from different sources compared to scope 3, leading to non-realistic results.

Currently, there is insufficient industry and regional granularity in scenario data, resulting in greater challenges to disaggregate alignment trajectories that are consistent with our geographic portfolio mix.

Further detail on our approach to net zero aligned reference scenario selection, including how we intend to review and evolve our approach as updated net zero aligned scenarios evolve, is outlined in our 2024 Annual Report and Accounts.

# Sector based methodologies





## Oil and gas

|                          |   |
|--------------------------|---|
| <b>Metric</b>            | MtCO <sub>2</sub> e   |
| <b>Scope</b>             | Scope 1, 2 and 3  |
| <b>Value chain focus</b> | Upstream e.g. extraction and integrated/ diversified  |
| <b>Target</b>            | Absolute combined on-balance sheet financed and facilitated emissions, -34% by 2030 from 2019 |
| <b>Scenario</b>          | IEA NZE 2021  |

### Value chain and scope

The majority of emissions in the oil and gas sector are focused on the upstream parts of the value chain. This observation is confirmed by the PACTA methodology document<sup>10</sup>, which states that the bulk of emissions in the oil and gas and power sectors is encompassed in the upstream part of the value chain.

We focused on upstream (e.g., exploration, extraction, and drilling) companies, and integrated or diversified energy companies. Midstream (e.g., processing, storing and transportation of crude product) and downstream (e.g., refining and distribution) companies are excluded from our scope. By focusing on upstream and diversified energy producers and including scope 3 emissions, we believe we are accounting for the majority of emissions across the sector<sup>11, 12, 13, 14</sup>. This includes emissions associated with the use of oil and gas products as a fuel source. We have excluded midstream and downstream companies within the oil and gas sectors in order to limit double counting within the sector level analysis and to concentrate engagement with customers whose products contribute most to GHG emissions in the global economy.

For the oil and gas sector, we measure absolute financed emissions, preserving a direct link to reducing GHG emissions in the real economy and allows us to assess our alignment with the IEA NZE 2021 scenario.

### Reference scenario

In line with the IEA NZE 2021 scenario, we target an absolute reduction of 34% in combined absolute on-balance sheet financed and facilitated emissions and in millions of tonnes of CO<sub>2</sub> equivalent ('Mt CO<sub>2</sub>e') by 2030, using 2019 as our baseline.

<sup>10</sup> PACTA for Banks Methodology, page 23.

<sup>11</sup> International Energy Agency (2018), CO<sub>2</sub> Emissions from Fuel Combustion 2018, IEA, Paris.

<sup>12</sup> International Energy Agency (2018), World Energy Outlook 2018, IEA, Paris

<sup>13</sup> McKinsey company (2020), <https://www.mckinsey.com/industries/oil-and-gas/our-insights/the-future-is-now-how-oil-and-gas-companies-can-decarbonize>.

<sup>14</sup> PACTA (2020), PACTA for Banks Methodology Document, Version 1.1.0.



## Power and utilities

|                          |  |
|--------------------------|--|
| <b>Metric</b>            | tCO <sub>2</sub> e per GWh   |
| <b>Scope</b>             | Scope 1 and 2  |
| <b>Value chain focus</b> | Upstream e.g. generation, and diversified utilities - Power generation   |
| <b>Target</b>            | Combined on-balance sheet financed and facilitated emissions intensity, 138 tCO <sub>2</sub> e/GWh by 2030 from 2019 |
| <b>Scenario</b>          | IEA NZE 2021   |

### Value chain and scope

For the power and utilities sector, our analysis focused on upstream (e.g. power generation) companies and diversified – power generation companies. Midstream (e.g. transmission and distribution) and downstream (e.g. retail) companies are excluded from our scope. We believe power generation is where the majority of sector emissions occur through their use of fossil fuels (oil, gas and coal) as a source of energy.

For power generation companies, we focus on scope 1 and 2 GHG emissions<sup>15</sup>. In analysing the power and utilities sector, we did not take account of upstream scope 3 GHG emissions because we believe them to be less material.

For the power and utilities sector, we use an emissions intensity metric. This allows us to account for the anticipated increase in demand for electricity as electrification occurs, and the need to rapidly grow the proportion of renewable energy in electricity generation.

### Reference scenario

For this sector, we also follow the IEA NZE 2021 scenario and target a combined absolute on-balance sheet financed and facilitated emissions intensity of 138 tonnes of carbon dioxide equivalent per gigawatt hour ('tCO<sub>2</sub>e/GWh') by 2030, using 2019 as our baseline.

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<sup>15</sup> This is a deviation from the PCAF guidance to report GHG scopes 3 across sectors as we focus on most material scopes for target-setting.



# Cement

|                          |   |
|--------------------------|---|
| <b>Metric</b>            | tCO <sub>2</sub> e per tonne of cement                        |
| <b>Scope</b>             | Scope 1 and 2   |
| <b>Value chain focus</b> | Midstream e.g. clinker and cement manufacturing               |
| <b>Target</b>            | Intensity, 0.46 tCO <sub>2</sub> e/t cement by 2030 from 2019 |
| <b>Scenario</b>          | IEA NZE 2021  |

## Value chain and scope

For the cement sector, we included scope 1 and 2 emissions of the midstream (e.g. clinker and cement manufacturing) companies in the value chain.<sup>16</sup> We believe the majority of emissions come from cement manufacturing, particularly the emissions associated with the sintering process. The upstream emissions of this sector will be covered when we expand our coverage to other sectors.

For the cement sector, we set an emissions intensity metric. An emissions intensity metric for the cement sector allows us to work with clients and account for the anticipated increase in capital investments required for rapid decarbonisation.

## Reference scenario

In line with the IEA NZE 2021 scenario, we target an on-balance sheet financed emissions intensity of 0.46 tonnes of carbon dioxide equivalent per tonne of cement ('tCO<sub>2</sub>e/t cement'), using 2019 as our baseline.

<sup>16</sup> This is a deviation from the PCAF guidance to report GHG scopes 3 across sectors as we focus on most material scopes for target-setting.

## Iron, steel and aluminium

|                          |  |
|--------------------------|--|
| <b>Metric</b>            | tCO <sub>2</sub> e per tonne of metal  |
| <b>Scope</b>             | Scope 1 and 2  |
| <b>Value chain focus</b> | Midstream e.g. ore to steel  |
| <b>Target</b>            | Intensity, 1.05 tCO <sub>2</sub> e/t metal by 2030 from 2019 (1.43 tCO <sub>2</sub> e/t metal for MPP) |
| <b>Scenario</b>          | IEA NZE 2021 (and MPP as alternative)  |

### Value chain and scope

For the iron, steel and aluminium sector, we focused on scope 1 and 2 emissions from the midstream (e.g. steel manufacturing, and the energy and raw materials used in aluminium smelting).<sup>17</sup>

We have combined our analysis of iron, steel and aluminium owing to the relatively small size of our aluminium portfolio and both having the same production metric tonne of metal.

The combination of sectors was done as an attributed exposure-weighted average of emissions intensity by tonne of metal (steel or aluminium).

We intend to address our coverage of aluminium in future disclosures due to the low materiality in our portfolio, as well as volatility caused by the greater emissions intensity of aluminium production compared to iron and steel.

### Reference scenario

For the iron, steel and aluminium sector, we target an on-balance sheet financed emissions intensity of 1.05 tonnes of carbon dioxide equivalent per tonne of metal ('tCO<sub>2</sub>e/t metal'), using 2019 as our baseline. We use the IEA NZE 2021 scenario as our core target scenario and have included the net zero-aligned Mission Possible Partnership ('MPP') Technology Moratorium as an alternative scenario.

<sup>17</sup> This is a deviation from the PCAF guidance to report GHG scopes 3 across sectors as we focus on most material scopes for target-setting.

## Aviation

|                          |  |
|--------------------------|--|
| <b>Metric</b>            | tCO <sub>2</sub> e per million revenue passenger kilometre     |
| <b>Scope</b>             | Scope 1 for airlines, 3 for aircraft lessors                   |
| <b>Value chain focus</b> | Downstream e.g. airlines and aircraft lessors                  |
| <b>Target</b>            | Intensity, 63 tCO <sub>2</sub> e/million rpk by 2030 from 2019 |
| <b>Scenario</b>          | IEA NZE 2021   |

### Value chain and scope

For the aviation sector, our analysis includes scope 1 for passenger airlines and scope 3 aircraft lessors' emissions, focusing on downstream (e.g. airlines and aircraft lessors) companies in the value chain. We have prioritised scope 1 emissions from airlines and scope 3 from aircraft lessors to focus action on the use of lower emissions aviation fuels and different propulsion systems for new aircraft<sup>18</sup>.

For the aviation sector, we set an emissions intensity metric. An emissions intensity metric for this sector allows us to work with clients and account for the anticipated increase in investments required for rapid decarbonisation. We excluded military and dedicated cargo flights as the emissions intensity of such cargo flights is different to that of passenger airlines. This approach is in line with industry practice to ensure consistency of financed emissions measurement and target setting.

Our aviation unit includes passenger and cargo tonnes, converted into revenue passenger kilometre ('rpk'), to align with our target pathway. This is comparable to revenue tonne kilometre (rtk) using a 100kg per passenger conversion factor as we already include belly and cargo tonnes in our production figures for airlines.

### Reference scenario

As per the IEA NZE 2021 scenario, we target an on-balance sheet financed emissions intensity of 63 tonnes of carbon dioxide equivalent per million revenue passenger kilometre ('tCO<sub>2</sub>e/million rpk'), using 2019 as our baseline. We modified the IEA NZE 2021 scenario to produce a global emissions intensity reference pathway for the scope of our analysis.

<sup>18</sup> This is a deviation from the PCAF guidance to report GHG scopes 2 and 3 for aviation as we focus on most material scopes for target-setting.





|                          |  |
|--------------------------|--|
| <b>Metric</b>            | tCO <sub>2</sub> e per million vehicle-kilometre               |
| <b>Scope</b>             | Scope 1, 2 and 3   |
| <b>Value chain focus</b> | Midstream e.g. motor vehicle manufacturing                     |
| <b>Target</b>            | Intensity, 66 tCO <sub>2</sub> e/million vkm by 2030 from 2019 |
| <b>Scenario</b>          | IEA NZE 2021   |

## Value chain and scope

For the automotive sector, we looked at scope 1 and 2 for midstream manufacturing of vehicles, and scope 3 for tank-to-wheel exhaust pipe emissions for light-duty vehicles ('LDV'). We excluded heavy-duty vehicles from our analysis as the target pathway derived from the IEA excludes them, as they have a different decarbonisation pathway relative to light-duty vehicles. We will consider including heavy-duty vehicle manufacturers as well as heavy-duty vehicle production at a later stage of our analysis, as data and methodologies develop.

An emissions intensity metric for the automotive sector allows us to work with clients and account for the anticipated increase in capital investments required for rapid decarbonisation.

## Reference scenario

We target an on-balance sheet financed emissions intensity of 66 tonnes of carbon dioxide equivalent per million vehicle kilometre ('tCO<sub>2</sub>e/million vkm'), using 2019 as our baseline. We modified the IEA NZE 2021 scenario to isolate LDV and produce a global emissions intensity reference pathway based on the share of sales by technology.

## Thermal coal



### Thermal coal phase out commitments

We are committed to phasing out the financing of thermal coal-fired power and thermal coal mining in EU and OECD markets by 2030, and globally by 2040. As part of this commitment, we intend to reduce thermal coal financing drawn balance exposure by at least 25% by 2025 and aim to reduce by 50% by 2030.

In addition to reporting thermal coal financing drawn balance exposure, in 2022 we set a separate target to reduce on-balance sheet financed emissions for thermal coal-fired power and thermal coal mining as part of our updated thermal coal phase-out policy.

To avoid duplication, given majority of customers in scope of the thermal coal-fired power are already included in our power and utilities target population and better reflect real world customer segments, we plan to continue with only the financed emissions target for thermal coal mining

### Thermal coal financing exposure reporting

Our basis of preparation for reporting on thermal coal financing drawn balance exposures is in line with our thermal coal phase-out policy and applies a risk-based approach to reporting on relevant exposures.

Our reporting approach applies materiality considerations to product type, customer type and exposure type, which informs inclusion and exclusion requirements. We calculate exposures based on drawn balances as at the end of the relevant reporting period. Applying materiality criteria helps us to focus our efforts on areas where we believe we can help drive meaningful change, whilst taking into account experience from policy implementation over time.

Our reporting approach is reliant on the information that clients provide to us, as well as external data sources. Whilst we undertake certain due diligence checks, we remain reliant on the accuracy and completeness of these data sources for exposure calculations.

We recognise the importance of this reporting and the quality of data underpinning it. We acknowledge that our internal processes to support this reporting currently rely on aggregating data from multiple source systems and require further development. Aggregation of data sources and client investigations are subject to enhanced verification and assurance procedures including through the first and second line of defense.

### Inclusion criteria

To determine the client population that is in scope for exposure reporting, we consider all clients that own, operate or control the following, as defined in our thermal coal phase-out policy:

- ◆ Thermal coal-fired power plants;
- ◆ Thermal coal mines, including any mountaintop removal; or
- ◆ Coal to gas/liquids plants.

Our exposure reporting does not include coal services; and underground coal gasification (coal bed methane) on the basis that they are exempted activities as defined in our thermal coal phase-out policy. Our reporting also does not include metallurgical coal mining activities, captive thermal coal-fired power plants and captive thermal coal mines.

We apply data and analytics capabilities on third-party lists of companies to assist in identifying potential exposures to thermal coal assets as defined by our thermal coal-phase policy (currently provided by Urgewald, Asset Impact and Global Energy Monitor). Lists are sourced as of the relevant reporting year end with the exception of Global Energy Monitor which is as of May 2023 as historical extracts are not available. We also identify clients classified within industry codes associated with mining, production or manufacture of electricity, gas and coal. We also incorporate clients that we become aware of through our routine screening. For any client identified we undertake analysis to confirm exposure to thermal coal using the latest set of client information that existed as at the date of the thermal coal exposure calculation. We also consider the specific purpose of the lending, where relevant, or where the use of proceeds or restrictions on use have been agreed with our clients.

We recognise that we provide financing to groups of connected companies where the wider group has thermal coal exposures, and this introduces additional complexities when estimating thermal coal exposure. In such cases, we consider the nature and the extent of the connections and any restrictions on use of financing proceeds to fund the thermal coal activities. When calculating exposures in the majority of cases, we apply a weighting based on the extent of thermal coal activities as part of the overall operation of the group. However, for complex groups, we have updated our methodology to more differential weightings to various parts of the complex groups where publicly available information allows. This has been done to prevent dilution of the coal weightings in such groups and, and on a case-by-case basis, allow financing to be excluded where we are able to obtain sufficient comfort that any funds will not be used to finance the coal-assets.

We have also amended the methodology for determining control of thermal coal assets to align with the definition used for financial reporting to better reflect the intent of the thermal coal phase-out policy. These changes have been applied to 2021 and 2022 exposures and also to the 2020 Baseline, although did not have a material impact on the previously reported figure.

Where insufficient evidence of the nature of any thermal coal activity is available, it is assumed that this activity is in scope of the thermal coal phase-out policy.

## Exclusion criteria

We also apply certain exclusions<sup>19</sup> from the reporting analysis, including:

- ◆ Short-term lending products: excluded from exposure reporting in line with our methodology for calculating financed emissions;
- ◆ Sovereign entities: excluded due to the nature of these clients, however any lending directly to a state-owned entity that does have thermal coal exposure is included in scope;
- ◆ Smaller portfolio-managed corporate clients without dedicated relationship managers: excluded due to the nature of these clients and level of financing provided;
- ◆ Individuals: excluded in line with the thermal coal phase-out policy, due to it being unlikely that an individual will directly own, control or operate thermal coal assets. Separate controls operate within the Global Private Bank.
- ◆ Financial institutions and funds: excluded from exposure reporting due to the nature of these clients, however any lending directly to any majority owned subsidiary of a financial institution or fund that does have thermal coal exposure is included in scope;
- ◆ Aggregate financing drawn balance exposures less than \$15m: excluded from exposure reporting on the grounds of materiality and aligned with internal thresholds for enhanced transaction reviews. For the avoidance of doubt,

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<sup>19</sup> While we note the exclusions above for reporting on thermal coal exposures, where the client or transaction falls in-scope of our thermal coal phase-out policy, these are managed and monitored by our internal risk and control frameworks to help ensure policy compliance.

this exclusion criteria applies only to exposure reporting analysis and does not apply to the application of the thermal coal phase-out policy;

- ◆ Clients with thermal coal-related activities which constitute less than 5% of their operations: excluded from exposure reporting, aligned to industry guidance<sup>20</sup>, unless the use of proceeds is directly to fund a thermal coal asset; and
- ◆ Specific-purpose lending (including Green Loans, Project Finance and Export Credit Agency financing): excluded from exposure reporting on the basis that these products include use of proceeds clauses that are for defined purposes and should not be used to fund thermal coal-related activities within scope of our exposures reporting.

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<sup>20</sup> UN Environmental Programme Finance Initiative guidelines for climate target setting

## Thermal coal mining financed emissions

|                          |                                  |
|--------------------------|----------------------------------|
| <b>Metric</b>            | Mt CO <sub>2</sub> e             |
| <b>Scope</b>             | Scope 1,2 and 3                  |
| <b>Value chain focus</b> | Upstream                         |
| <b>Target</b>            | Absolute, -70% by 2030 from 2020 |
| <b>Scenario</b>          | IEA NZE 2021                     |

For the thermal coal mining sector, we look at companies that are covered by our thermal coal phase-out policy. We include all emissions scopes under an absolute target as thermal coal is a fossil fuel with a high carbon emissions factor. We have established a baseline and defined interim targets for the on-balance sheet financed emissions of our thermal coal portfolio covering thermal coal mining.

### Thermal coal mining financed emissions population

The initial population for the thermal coal mining financed emissions target is determined by our thermal coal phase-out policy. This takes into account the exclusions that have been made on the basis of materiality. We identify the thermal coal counterparties that are specifically focused on thermal coal mining using third-party data sources. Counterparties with exempted activities (such as captive use or metallurgical coal mining) as defined in the thermal coal phase-out policy are not in-scope of the financed emissions calculations.

We calculate a 2020 baseline to align with the baseline year used for our thermal coal financing exposure reporting (as per our thermal coal phase-out policy). For the other financed emissions sectors 2019 was used to remove the impact of the Covid-19 pandemic.

- ◆ Counterparties that have evidence of thermal coal mines in the Global Energy Monitor (GEM), Asset Impact or their company annual / ESG reports are only included if Asset Impact emissions are available<sup>21</sup>. Counterparties that are in scope of the thermal coal phase-out policy but with only thermal coal power emissions are excluded from the thermal coal mining population.
- ◆ Counterparties with thermal coal mining ownership are identified using coal mining emissions data from Asset impact, which is used for financed emissions reporting, in contrast to exposure reporting where both ownership and operational control of coal mines are considered.
- ◆ Counterparties with emissions that have already been covered in another financed emissions sector (e.g. oil and gas or power and utilities) are excluded to reduce double counting. Emissions will already have been captured in the scope 1 and 2 sector financed emissions for the other sector. Some counterparties where thermal coal mining emissions are not available but with identified thermal coal mines (Global Energy Monitor) will not be included as thermal coal mining is a minor contribution. These emissions will be included as coverage expands in future.
- ◆ Counterparties with less than 5% thermal coal weighting (as defined by our exposure reporting) are included, in contrast with the thermal coal financing drawn balance exposure target, as these can have considerable thermal coal-related financed emissions.

<sup>21</sup> As of 31 December of the year of analysis

- ◆ For in-scope counterparties, if an obligor has a 0% thermal coal weighting (as defined by our exposure reporting), it is excluded from thermal coal financed emissions.
- ◆ Counterparties who have been identified as complex groups or companies with multiple activities without thermal coal-related emissions from Asset Impact are excluded as these can have different activities covered by multiple sector targets. Once we define a methodology for these firms, they may in future be covered according to their activity split.
- ◆ Counterparties which have been identified as solely metallurgical coal are excluded. These are identified by mapping counterparties against the GEM Tracker – Global Energy Monitor
- ◆ Project finance deals identified as being thermal coal-related (i.e. thermal coal mining or coal fired power projects) are included for the counterparties in-scope. The project finance exposures are treated as general lending for these counterparties as the coal-related emissions are estimated based on financial control for coal production. This may lead to over or underestimation due to different scopes of emissions being covered under general lending versus treatment as project finance. If project finance deals for these counterparties were previously included in another sector (e.g. power and utilities), we will not include them in the thermal coal mining sector for the previously disclosed year but include them in the thermal coal mining sector for subsequent disclosures.

The methodology between thermal coal financing drawn balance exposure reporting and financed emissions reporting is largely aligned but there are a few differences.

- ◆ Counterparties with less than 5% coal weighting are still included in the thermal coal mining financed emissions population as these can have considerable thermal coal-related emissions.
- ◆ Thermal coal exposures for reporting are assessed based on the existence of thermal coal activity or revenue in the latest available set of statements or ESG reports as of the reporting year-end. Financed emissions for thermal coal mining look at emissions in the relevant reporting year.
- ◆ For our thermal coal exposure reporting specific-purpose lending (including Green Loans, Project Finance and Export Credit Agency financing) has been excluded on the basis that these products include use of proceeds clauses that are for defined purposes and should not be used to fund thermal coal exposures. For financed emissions, however, projects in these categories can still create emissions so are therefore not excluded at present.

Figure 6 - Inclusion differences between thermal coal financing exposures reporting and financed emissions

|                | Category                                       | Thermal coal financing exposure reporting | Thermal coal mining financed emissions |
|----------------|--|---|--|
| Counterparties | Counterparties with <5% coal weighting         | No  | Yes                                    |
|                | Thermal coal mining                            | Yes                                       | Yes                                    |
|                | Coal-fired power                               | Yes                                       | No                                     |
|                | Thermal coal mining – asset presence           | During the year <sup>22</sup>             | As of 31 Dec                           |
| Exposure       | Project Finance – Thermal coal facilities      | Yes                                       | Yes                                    |
|                | Project Finance – Non thermal coal facilities  | No  | No                                     |
|                | Specific Purpose – Non thermal coal facilities | No  | Yes                                    |
|                | All other facilities                           | Yes                                       | Yes                                    |
|                | Short-term lending                             | No  | No                                     |

## Thermal coal mining calculation

Financed emissions calculation:

$$Financed\ emissions = \sum \frac{exposure_c}{company\ value_c} * thermal\ coal - related\ emissions$$

Where  $c$  = borrower or investee company

The exposure used in the financed emissions calculation is the full non-weighted exposure whereas the thermal coal exposure reporting applies a thermal coal weighting to the exposure. Company value from external data providers is sourced based upon a waterfall hierarchy, determined by quantitative and qualitative factors (see Figure 1 on page 5). Thermal coal related emissions include emissions from thermal coal mining and thermal coal-fired power plants, sourced from Asset Impact.

## Value chain and scope

Our analysis is focused on upstream (e.g., extraction) scope 1, 2 and 3 emissions<sup>23</sup> for the thermal coal mining sector. Most thermal coal value chain emissions occur in the combustion stage (downstream) which is included through our coverage of scope 3. Our target covers the parts of the sector value chain that we believe are most material in terms of GHG emissions, and where we believe engagement and climate action have the greatest potential to effect change. In comparison, the transport of thermal coal (midstream) does not contribute significantly to the value chain's emissions.

For thermal coal mining counterparties, we are specifically targeting the reduction of thermal coal-related emissions. As a result, the emissions that are included in our calculations are only those that originate from thermal coal, not the full emissions of the counterparty. Where we have data available, we use Asset Impact emissions data as these are based on a bottom-up analysis of thermal coal mining emissions sources and have been calculated based on coal production. Although the counterparties are involved in thermal coal mining, we include both thermal coal mining and

<sup>22</sup> According to the relevant information available during the year of policy application (e.g. annual reports).

<sup>23</sup> World Resources Institute (2015), The GHG Protocol - A Corporate Accounting and Reporting Standard, USA

coal-fired power emissions to ensure that all thermal coal-related emissions are covered by our target and financed emissions measurements. For thermal coal mining we only include thermal coal emissions (excluding metallurgical coal).

### **Reference scenario**

For the thermal coal mining sector, we have set a 70% absolute on-balance sheet financed emissions reduction target, by 2030 from a 2020 baseline. The metric used is million tonnes of CO<sub>2</sub> equivalent ('Mt CO<sub>2</sub>e'). This is consistent with a global 1.5°C-aligned pathway, in line with the IEA NZE 2021 scenario.



## Emissions re-baseline and restatement policy

Our emissions re-baseline and restatement policy defines the circumstances for a restatement of previously reported emissions data and targets, including a re-baseline. This is necessary to help ensure the consistency, comparability and relevance of the reported GHG emissions data over time. It covers revisions of emissions metrics and targets due to changes in financed emissions accounting, including changes to methodology, errors, and scope or boundary changes. We expect our policy to evolve with further industry guidance.

### Key drivers of change

Understanding the drivers of change allows us to perform quantitative and qualitative root cause assessments of any changes to the financed emissions metrics previously disclosed.

When key drivers, in aggregate, breach our defined significance thresholds, a restatement of previously reported emissions data and targets, including a re-baseline, is required. These thresholds are implemented only where the drivers are attributable to a methodology change, or an error, or a scope or boundary change.

Figure 7 - Policy summary

| Key areas of change   | What we expect to disclose   |
|---|--|
| <ul style="list-style-type: none"> <li>◆ Changes to the emissions methodology including those driven by changes in industry guidance/regulations</li> <li>◆ Errors, such as those in the internal application or interpretation of methodology or errors in the internal data</li> <li>◆ Scope of boundary changes, such as acquisitions or divestments, and inventory boundary and coverage changes</li> </ul> | <ul style="list-style-type: none"> <li>◆ A revised comparative amount for the restatement period that reflects the new information</li> <li>◆ The difference between the amount disclosed in the previous period and the revised comparative amount</li> <li>◆ The reasons for revising the comparative amount and why the new information provides reliable and more relevant information</li> <li>◆ The actions being taken to remediate same or similar errors in the future</li> </ul> |

Emissions data and related processes are continually evolving. Therefore, we do not consider data and process enhancements to be a key driver of change. This may change over time as data and processes mature.

## Cautionary statement

This document contains both historical and forward-looking statements. All statements other than statements of historical fact are, or may be deemed to be, forward-looking statements. Forward-looking statements may be identified by the use of terms such as 'expects,' 'targets,' 'believes,' 'seeks,' 'estimates,' 'may,' 'intends,' 'plan,' 'will,' 'should,' 'potential,' 'reasonably possible' or 'anticipates,' or a variation of these words, the negative thereof or similar expressions. HSBC has based the forward-looking statements on current plans, information, data, estimates, expectations and projections about future events, and therefore undue reliance should not be placed on them. These forward-looking statements are subject to risks, uncertainties and assumptions, as described under 'Cautionary statement regarding forward-looking statements' and 'Additional cautionary statement regarding ESG data, metrics and forward-looking statements' contained in the HSBC Holdings plc Annual Report for the year ended 31 December 2024 which we expect to file with the U.S. Securities and Exchange Commission ('SEC') on Form 20-F on or around 20 February 2025 (the '2024 Form 20-F') and in other reports on Form 6-K furnished to or filed with the SEC subsequent to the 2024 Form 20-F ('Subsequent Form 6-Ks'). HSBC undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. In light of these risks, uncertainties and assumptions, the forward-looking events discussed herein might not occur. Investors are cautioned not to place undue reliance on any forward-looking statements, which speak only as of their dates. Additional information, including information on factors which may affect the Group's business, is contained in the 2024 Form 20-F and Subsequent Form 6-Ks.