Walking the talk: banks gearing up to manage climate and environmental risk

SSM Climate Risk Project Management Team

3 February 2023
The 2022 supervisory exercises provided complimentary views on the readiness of banks.

**Risk management**
- 1. Business environment
- 2. Business strategy
- 3. Management body
- 4. Risk appetite framework
- 5. Organizational structure
- 6. Internal reporting
- 7. Risk management framework
- 8. Credit risk management
- 9. Operational risk management
- 10. Market risk management
- 11. Stress testing
- 12. Liquidity risk management

**Disclosures**
- 13. Disclosures

**Horizontal supervisory exercises**
- Thematic Review on C&E risk
- Climate Risk Stress Test

**Targeted supervisory exercises**
- Gap analysis on C&E risk disclosures
- Dedicated on-sites (TBC)
- Targeted review on CRE
State of climate risk management in the banking sector in 2022 – overall results (1/2)

Results of the review

- Virtually all banks are now **out of the starting blocks** to identify and manage their C&E risks
- **Significant increase compared to last year**, as in 2021 half of the banks made no or little meaningful progress
- Over **85% of banks now have at least basic practices** in place for at least half of the expectations
- With a **group of banks paving the way**, having emerging practices and leading practices in a considerable number of areas

![Graph showing soundness and comprehensiveness of institutions' practices to manage C&E risks]

Source: Supervisory assessment of 107 significant institutions' responses to the 2022 thematic review.
Notes: Each dot represents a single significant institution, taking the weighted average of all applicable assessment modules. The scope of the thematic review varies by institution, as not all institutions were included in all assessment modules (see Chapter 2.2 for more details).
State of climate risk management in the banking sector in 2022 – overall results (2/2)

Results of the review

Banks broadly acknowledge **material impact of C&E risks** within their business planning horizon…

- More than 80% of banks deems to be materially exposed to the risks, with 70% seeing material risk within next 3 to 5 years
- Banks that deploy a variety of assessment approaches appear to have a better gauge of the risks

... but are likely to **significantly underestimate** their **breadth and magnitude**.

- Blind spots in identification of risks in key sectors, geographies and risk drivers were identified in 96% of institutions
- Moreover, the review showed that 85% of banks do not have a single practice that comprehensively covers all C&E risk drivers that are material or likely to be material.

N.B. Short-medium term is defined as 3-5 years
Good practices demonstrate that swift progress is possible

<table>
<thead>
<tr>
<th>Business strategy</th>
<th>Materiality assessment</th>
<th>Risk management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transition planning</td>
<td>Identification of risk drivers</td>
<td>Due diligence and data collection</td>
</tr>
<tr>
<td>Key performance indicators</td>
<td>Identification of exposures</td>
<td>Controversial client activities</td>
</tr>
<tr>
<td>Transition products</td>
<td>Determination of materiality</td>
<td>Credit risk classifications</td>
</tr>
<tr>
<td>Client engagement</td>
<td></td>
<td>Market risk classifications</td>
</tr>
<tr>
<td>Client transition plans</td>
<td></td>
<td>Operational risk classifications</td>
</tr>
<tr>
<td>Governance and risk appetite</td>
<td></td>
<td>Collateral valuations</td>
</tr>
<tr>
<td>Management body</td>
<td></td>
<td>Loan pricing</td>
</tr>
<tr>
<td>Remuneration policies</td>
<td></td>
<td>Capital adequacy assessments</td>
</tr>
<tr>
<td>Second line of defense</td>
<td></td>
<td>Environmental risk exclusions</td>
</tr>
<tr>
<td>Third line of defense</td>
<td></td>
<td>Environmental risk due diligence</td>
</tr>
<tr>
<td>Key risk indicators</td>
<td></td>
<td>Biodiversity footprint</td>
</tr>
<tr>
<td>Data governance and data collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal risk reporting</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Observations on strategy

Results of the review

Many banks start to understand how climate risks might impact their business model and set out initial strategic responses…

- Most banks started to determine the impact of climate-related risks on their business strategy and
- 74% of banks established an initial set of KPIs for their strategic response.

…but their strategies do not yet make their business model resilient to these risks

- 86% of banks still lack steering capabilities to implement their strategic response and KPIs.
- Only a small group of leading banks employ forward-looking tools to determine the impact of these risks on their business strategy.

Note: Sample of 107 institutions that were within the scope of the 2022 thematic review on climate-related and environmental risks.
Example of good practice: transition planning (1/2)

1. Materiality assessment
   - Banks typically assess materiality of their exposure to transition risks. Set **targets for areas of material risk**.

2. Strategic targets and risk appetite
   - **KPIs** reflecting short, medium and long term targets **cascaded down** to individual business lines.
   - Targets typically reflected in **KRI s**.

3. Risk management tools
   - Targets and attention thresholds integrated into banks’ **monitoring and escalation arrangements**.
   - **Counterparty-specific actions** for clients that are not aligned with banks’ portfolio trajectory, taking into account client transition plan.

4. Product offering
   - **Adjusted product offering** for clients with elevated transition risks.
Example of good practice: transition planning (2/2)

Banks are integrating C&E risks in their strategic target-setting process

- As a starting point, they often exclude new financing of particularly harmful and potentially risky exposures such as coal mining and power generation clients.
- Banks that are more advanced in integrating transition risks into their business strategy also set short, medium and long-term targets showing how their portfolios have to evolve over time.
- Targets are usually set based on forward-looking and science-based decarbonisation pathways.
- Banks align their Risk Appetite Statement with the targets.
- Banks show awareness of the importance and consequences of scenario choice for target-setting.

Scenario choice:
- Scenario choice has important consequences. Key aspects:
  a) Up-to-date scenarios
  b) Ambition (e.g. “well below 2°C” vs “1.5°C”)
  c) Geographical relevance
  d) Starting point at base year
  e) Internal consistency of choice

Risks:
- Banks with net-zero claims not using scenarios that reflect objectives are exposed to elevated risks (e.g. strategic, transition, reputational / litigation / liability risks)

Stylised example of a KRI tracking the alignment of the emissions intensity of exposures with the institution’s transition trajectory

![Graph showing emissions intensity alignment trajectory](image)
Observations on governance and risk appetite

Results of the review

Banks have **improved their organisational structure** and gained **awareness of data gaps**...

- Almost all banks have assigned responsibilities to management board, while half of banks also determined collective suitability of the board.

- 90% of banks have assigned responsibilities to 1\(^{\text{st}}\) and 2\(^{\text{nd}}\) lines of defence; less than 40% also did so for the third line of defence.

... but are still in the **early stages of tackling climate-related risks** in a granular, bank-wide and comprehensive manner

- ~15% of banks systematically collect data needed.

- Even fewer internally report granular and forward-looking information and set granular KRI.

Chart 15
A structured, integrated and granular governance of climate-related risks

Selected criteria for a structured, integrated and granular governance of climate-related risks (percentages of institutions that have practices in place)

- Responsibility allocation and collective suitability of management body
- Full integration in three lines of defence
- Remuneration linked to climate targets
- Systematic data collection
- Reporting granular and forward-looking metrics
- Granular key risk indicators

Note: Sample of 107 institutions that were within the scope of the 2022 thematic review on climate-related and environmental risks.
Example of good practice: data governance (1/2)

Banks are devising **approaches to developing C&E reporting frameworks**. Three main components:

1. **Data gap analysis**
   - Consider disclosure requirements, risk management needs, business objectives and commitments

2. **Data collection strategy**
   - Variety of internal and external sources
   - Collect client/asset-level data via questionnaires (see next slide)
   - Hierarchies of data sources: actual client data + verified external data. Proxies as interim solution
   - Assess third-party providers (e.g. data quality)

3. **Data management and reporting framework**
   - Frequently a centralised IT platform encompassing all sustainability-related data

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### Table 21

Stylised and simplified example of a C&E-related data catalogue

<table>
<thead>
<tr>
<th>Data type</th>
<th>Description (metric and methodology)</th>
<th>Data level</th>
<th>Collection deadline</th>
<th>Gap</th>
<th>Action (in case of gap)</th>
<th>External sourcing?</th>
<th>Responsible workstream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1, 2 &amp; 3 financed emissions</td>
<td>Metric: CO2 footeenes: Methodology: client emissions data and data on sectoral average emissions</td>
<td>Client</td>
<td>DD-Month-202X</td>
<td>Yes</td>
<td>Roll out client questionnaire, supplement with PRAF data</td>
<td>Partially (name of provider)</td>
<td>Name of workstream</td>
</tr>
<tr>
<td>Total financed emissions</td>
<td></td>
<td>Client</td>
<td>DD-Month-202X</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building construction year</td>
<td>Year construction finalised</td>
<td>Instrument</td>
<td>DD-Month-202X</td>
<td>No</td>
<td>N/A</td>
<td>N/A</td>
<td>Name of workstream</td>
</tr>
<tr>
<td>Building floor</td>
<td>Floor level</td>
<td>Instrument</td>
<td>DD-Month-202X</td>
<td>Yes</td>
<td>Roll out client questionnaire</td>
<td>Yes</td>
<td>Name of workstream</td>
</tr>
<tr>
<td>Building EPC</td>
<td>EPC label of building</td>
<td>Instrument</td>
<td>DD-Month-202X</td>
<td>Yes</td>
<td>Roll out client questionnaire; supplement with external data</td>
<td>Partially (name of provider)</td>
<td>Name of workstream</td>
</tr>
</tbody>
</table>

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Banks are using questionnaires to collect client and asset-specific data.

**Purpose**
- Client questionnaire to collect the client and asset-specific data needed to assess relevant transition and physical risk drivers

**Scope**
- Small and large banks use questionnaires to collect data from a wide scope of customers (incl. SMEs)

**Process**
- Typically embedded in due diligence and client engagement procedures

### Examples

**Type of data**

<table>
<thead>
<tr>
<th>Data</th>
<th>Description</th>
<th>Targeted risk driver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current and projected total GHG emissions</td>
<td>An estimate of the total current and projected GHG emissions of financed assets broken down by Scope 1, 2 and 3 emissions (e.g. CO2 or CO2eq/produced product)</td>
<td>Transition risk (e.g. policies and regulations)</td>
</tr>
<tr>
<td>Fossil fuel dependency</td>
<td>Production, processing, distribution, storage, or combustion of fossil fuels (percentage of revenues/production volumes)</td>
<td>Transition risk (e.g. policies and regulations)</td>
</tr>
<tr>
<td>Geographical location data</td>
<td>Granular data on the geographical location of financed assets and/or main client activities (e.g. postal codes)</td>
<td>Physical risk (e.g. flooding)</td>
</tr>
<tr>
<td>Energy consumption intensity</td>
<td>An estimate of the energy consumption of clients (e.g. gigawatt hours – GWh), including a split of the share of (non-)renewable sources</td>
<td>Transition risk (e.g. policies and regulations)</td>
</tr>
<tr>
<td>Energy performance certificate</td>
<td>EPC for both residential and commercial real estate</td>
<td>Transition risk (e.g. market sentiment or regulation)</td>
</tr>
</tbody>
</table>

### Example of good practice: data governance (2/2)

**Good practices 4.5.1 & 5.1.1**
Observations on (credit) risk management

Results of the review

Roughly 25% of banks have put in place at least basic climate risk practices across all stages of the credit risk cycle

- The majority of institutions have integrated risks into due diligence and lending policies, albeit it a generalised approach in most cases
- Many banks are using qualitative information to construct proxies to identify and evaluate risk classification and monitoring
- In the subsequent stages of the credit management cycle, the level of climate-related risk integration is more limited
  - Roughly half of banks are considering it in the process of collateral valuations and loan pricing
  - Only a small subset of institutions is using sufficiently granular data, such as client and asset-level data
Example of good practice: risk classification

Banks are integrating **C&E risks into classification systems** in at least two ways:

1. **Stand-alone scorecard**
   - A classification system that for example follows a traffic light system (e.g. red / amber / green)
   - Based on C&E client data collected by due diligence questionnaires (see slide 18).
   - Typically factored into discussions on lending and/or credit committee decisions

2. **Integration into PD-rating systems**
   - As part of PD-rating system concrete criteria are set triggering a downgrade override of client’s PD rating
   - These criteria can be informed by a climate scorecard (see above) or specific C&E-related developments related to reputational risks or the business environment more broadly

### Table 27
Stylistised example of transition risk scorecard for corporate clients

<table>
<thead>
<tr>
<th>Component</th>
<th>Sub-component</th>
</tr>
</thead>
<tbody>
<tr>
<td>Governance</td>
<td>Governance reporting in line with the TCFD standard</td>
</tr>
<tr>
<td></td>
<td>Environmental risk rating by external, independent third party</td>
</tr>
<tr>
<td>Strategy</td>
<td>Strategy disclosure in line with the TCFD standard</td>
</tr>
<tr>
<td></td>
<td>Strategy line with a 1.5 degrees Paris Agreement scenario</td>
</tr>
<tr>
<td>Risk management</td>
<td>The integration of climate-related risks in client’s risk management in line with TCFD</td>
</tr>
<tr>
<td>Metrics and targets</td>
<td>Disclosure of Scope 1, 2 and 3 GHG emissions</td>
</tr>
<tr>
<td></td>
<td>Disclosure of targets to reduce risks stemming from climate change</td>
</tr>
<tr>
<td>Current carbon profile</td>
<td>Exposure to hydrocarbon value chain</td>
</tr>
<tr>
<td></td>
<td>Level of GHG emissions</td>
</tr>
<tr>
<td>Medium-term sensitivity to transition risk</td>
<td>Client’s sensitivity to technology, market and policy changes related to climate change, including in the context of its competitive positioning within its market</td>
</tr>
<tr>
<td>Medium-term adaptive capacity</td>
<td>Client’s ability to mitigate transition risk exposure in the medium term, specifically by assessing the degree to which transition risk exposure is reflected in robust CAPEX plans</td>
</tr>
</tbody>
</table>
Observations on C&E risk disclosures*

Disclosures content: 45% of the banks’ disclosures were assessed as insufficient from both the content and substantiation perspectives. Few banks disclose meaningful information on financed emissions, alignment metrics or energy performance certificates.

Transparency: 1/3 of institutions do not yet transparently disclose that they are materially exposed to C&E risks in line with their internal materiality assessments.

Substantiation: Institutions insufficiently substantiate their C&E risks figures, metrics and targets that they choose to disclose, raising concerns on associated reputation and litigation risk.

* Assessment performed in 2021 on disclosures with reference date 2020 or later where available
Examples of good practices identified in banks’ disclosures

- **Alignment paths**: An increasing number of banks are joining Net Zero alliances such as GFANZ. Few of these banks already disclose alignment of select portfolios referring a net zero scenario such as IEA NZE2050.

- **External assurance**: Some disclosures explicitly mention which climate-related and environmental information formed part of the external assurance process. Other disclosures explicitly exclude specific types of information or expressly limit the extent of the assurance provided for specific elements of information.

- **Risk management**: One institution disclosed its procedure for the management and continuous monitoring of the environmental and social risks associated with the financing of corporate client activities and facilities.

Overall, the gap analysis shows that institutions have made progress.