



CAREC Chai event

May 23, 2024

01

Global and EU Regulations

Organizations & Governments - set goals and frameworks for sustainable development


Significant global treaties and agreements

UN Agenda 2030 (SDG) & Paris Agreement on Sustainable Development and Climate Change




Obligations within the EU


The EU is committed to meeting at least the following climate and energy targets for 2030:



Reduction of greenhouse gas emissions by >55%¹ (compared to 1990)



Increase the proportion of energy from renewable sources to at least 32%.



Increase in energy efficiency by at least 32.5

- Equal consideration of the three sustainability dimensions

Economy

Social affairs

Ecology

- Holistic development approach
- Respect for human rights, the rule of law, good governance, peace and security
- In addition to the 193 UN member states, many companies are also committed to tackling all or many of the SDGs and are setting themselves ambitious targets

- EU Green Deal: The EU should be completely climate-neutral by 2050
- EU participation in the additional investment requirement of EUR 180 billion per year to achieve the 2030 climate targets → EU action plan for sustainable finance
- EU taxonomy for "green" activities → Classification tool for the redirection of capital flows required for the implementation of the EU Green Deal

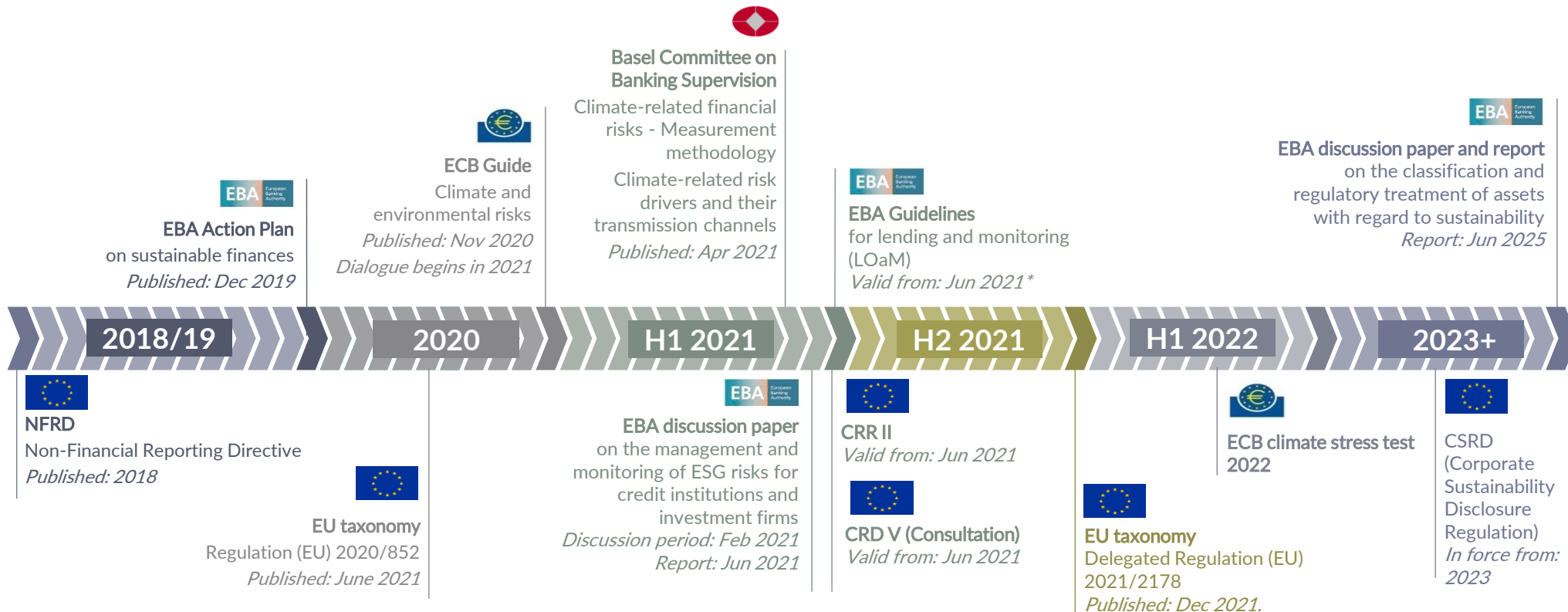
¹ With the European Climate Law, the target for reducing greenhouse gases was adjusted from at least 40% to 55%.
Source: Websites of the European Commission & EBA, UN, Austrian Federal Ministry of Agriculture, Regions and Tourism.

Sustainability in the context of EU policy

Recent milestones in EU policy



New regulation for ESG in the EU



The ESG requirements imply 4 key challenges



02

Climcycle

Climcycle introduction



Key Facts

climcycle



- Software as a service
- API ready
- Regulatory Safe
- Connectable to all systems
- Continuous further development
- Modular application
- Integrated database and data storage
- Integrated data management
- BCBS 239 ready



Actively used in 6 countries



KPMG's expertise and the flexibility of a fintech



Regulatory safe for all ESG requirements



Relevant for financial institutions, industry and asset managers



Applicable to all regions and industries worldwide



Continuous development and updating



Adaptable to individual customer requirements



ISO/IEC 27001 certified



100% data security in accordance with data encryption guidelines

9 Modules for all ESG requirements!

ESG risk scoring

ESG risk scoring for each transaction based on flexible input data. The ESG risk score includes E, S and G factors. All types of transactions and clients can be assessed.

Physical climate risks

Identification of physical climate risks and projection of risks using RCP scenarios over the term of the transaction in the course of the EU taxonomy Annex A.

CO2 emissions PCAF

Calculation of the emissions caused by one or more transactions or assets using the international PCAF standard.

CSRD & ESRS

The CSRD reporting tool provides support in CSRD reporting and is based on the requirements of the ESRS. It includes the assessment of materiality and reporting in accordance with CSRD expectations.

EU taxonomy

Examination of individual economic activities or assets for their taxonomy capability and conformity. Conformity is determined in accordance with the Technical Assessment Criteria (TSC) and Minimum Safeguards (MS).

GAR & Disclosure

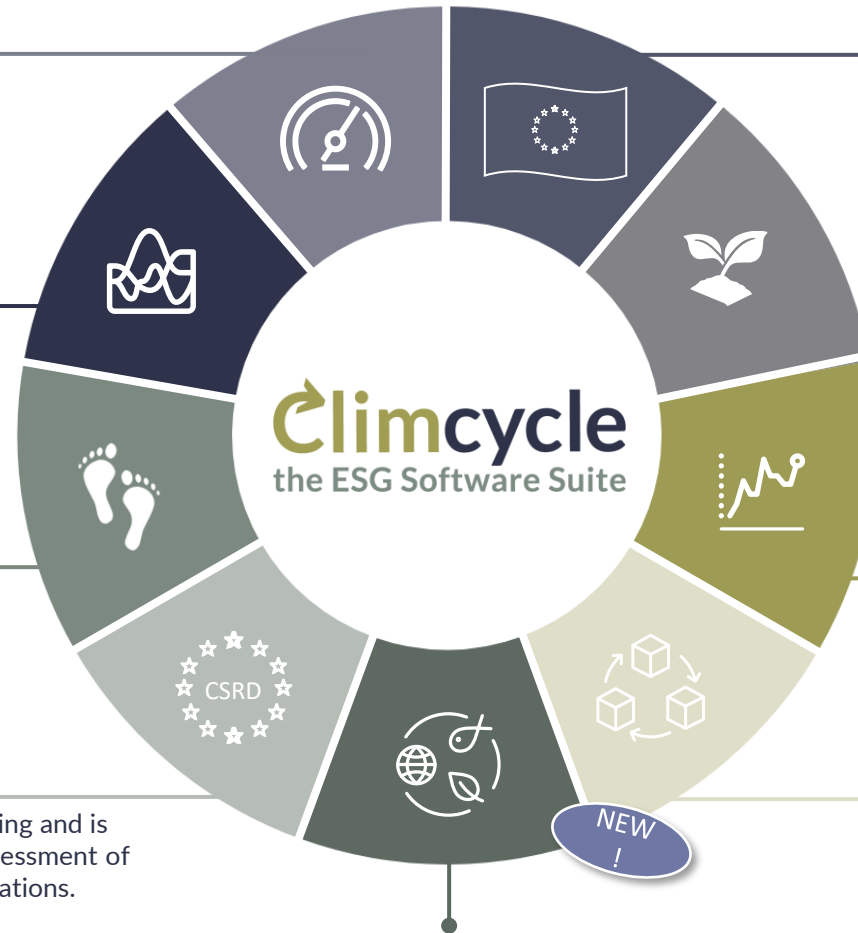
Calculation of Green Asset Ratios, Eligibility Ratios & automated filling of the relevant reporting forms, for easy disclosure.

ESG stress test

Calculation of financial ESG effects based on various climate change scenarios in accordance with EIOPA methodology.

CSDDD

This module supports you in complying with the EU Supply Chain Act. Go-live: Q1 2025



Biodiversity

This module supports you in the disclosure of various biodiversity KPIs in accordance with the regulatory requirements relating to the EU taxonomy, CSRD/ESRS and risk management. Go-live: Q4 2024.

03

Climcycle appendix

Interaction of the modules

An integrated data system for all modules

All information collected as part of the lending process or the ongoing assessment of the portfolio can be used in the Climcycle modules. All data and results can be stored in Climcycle. The data does not have to be entered twice! All modules in Climcycle are coordinated with each other!



ESG risk scoring

All information is transformed into an overall ESG score. Results from the other modules are also taken into account.

EU taxonomy

The taxonomy assessment is based on data from lending as well as internal and external databases.

GAR & Disclosure

The various green asset ratios and associated KPIs are calculated automatically on the basis of existing data.

ESG stress test

Based on the data collected and the results from the other modules, effects on risk parameters are calculated, including PD, LGD and ECL.

CO2 emissions PCAF

Calculation of absolute CO2 emissions and various CO2 intensities per euro exposure, using the example of a corporate loan.

Physical climate risks

Physical climate risks are calculated using different data sets and coordinates. As a result, customers receive an assessment of the most relevant climate risks.

CSRD & ESRS

All information from the other areas is collected in this module and evaluated in accordance with the CSRD/ESRS specifications and organized into the required structure.

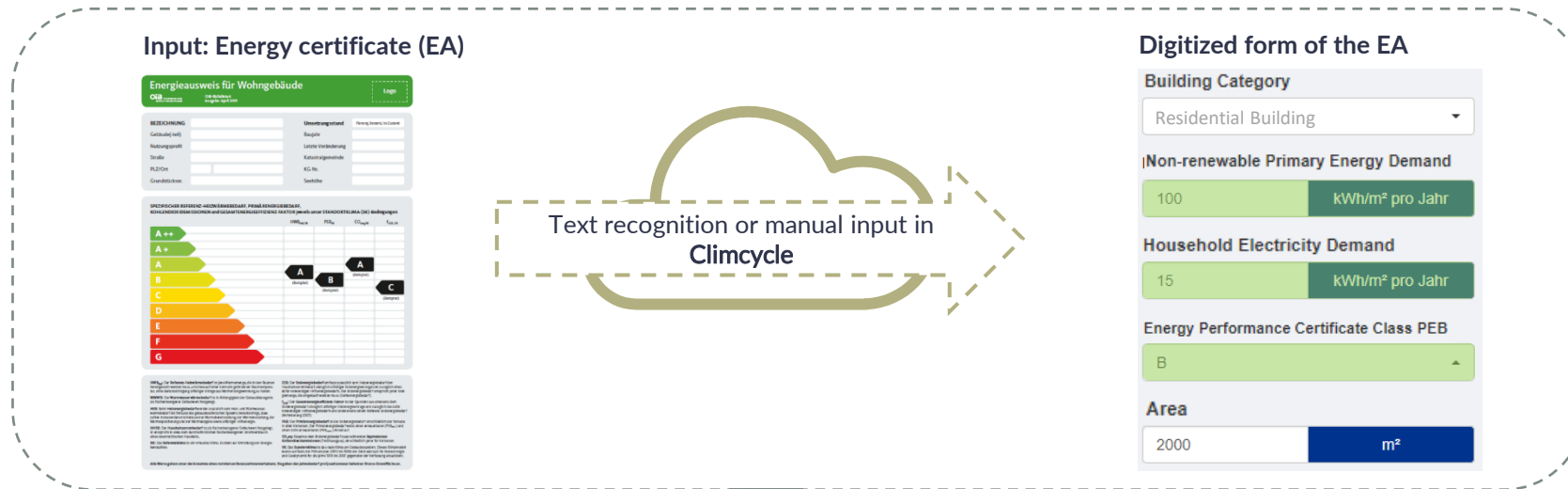
CSDDD

In this module, all data relating to the value chain is collected and evaluated in accordance with the EU CSDDD requirements.

Biodiversity

Biodiversity risks are analyzed on the basis of location and economic activity and assessed in accordance with the requirements of ESRS E4 and EU Taxonomy Annex D.

Interaction of the modules using the example of the energy certificate



ESG risk scoring

Energy performance indicators refine the ESG risk score of an asset.

EU taxonomy

Key figures from the energy performance certificate are used for the EU taxonomy assessment.

GAR & Disclosure

Key figures from the energy performance certificate are taken into account when filling the KPIs and templates.

ESG stress test

Key figures from the energy performance certificate are used to refine the ESG stress tests.

CO2 emissions PCAF

Key figures from the energy performance certificate are used to calculate absolute CO2 emissions and CO2 intensities.

Physical climate risks

The data from the energy certificate can be used for address identification.

CSRD & ESRS

Key figures of the energy performance certificate are categorized in ESRS E1-E5 as well as S1-S4 and G1.

CSDDD

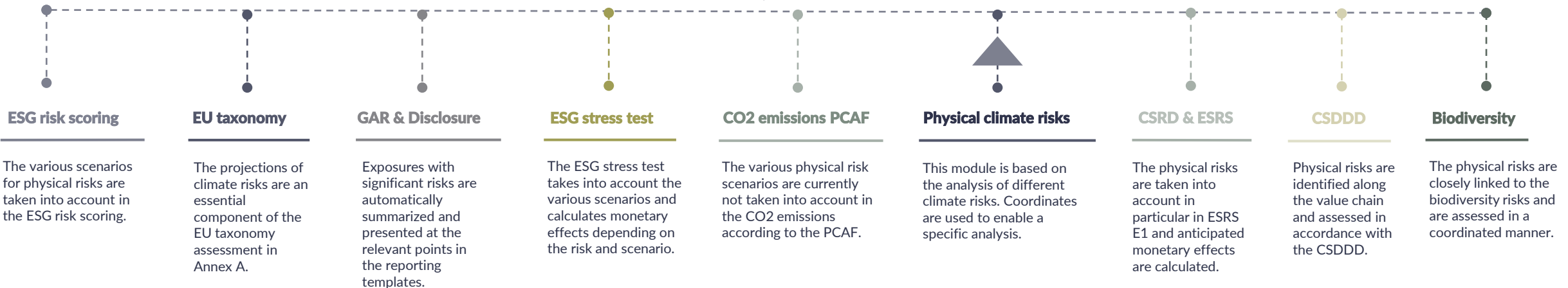
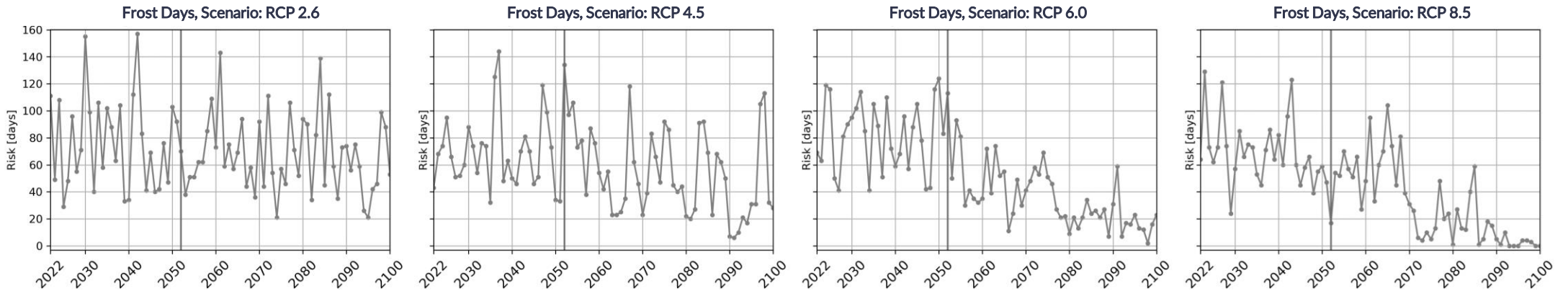
The data from the energy certificate is not taken into account in this module.

Biodiversity

The data from the energy certificate can be used for address identification.

Interaction of the modules using the example of scenario analysis of physical risks

Various scenarios for physical risks up to 2100 are calculated on the basis of address or geocoordinates and asset class. The risk for "Frost Days" in Oslo (NOR) is shown here.



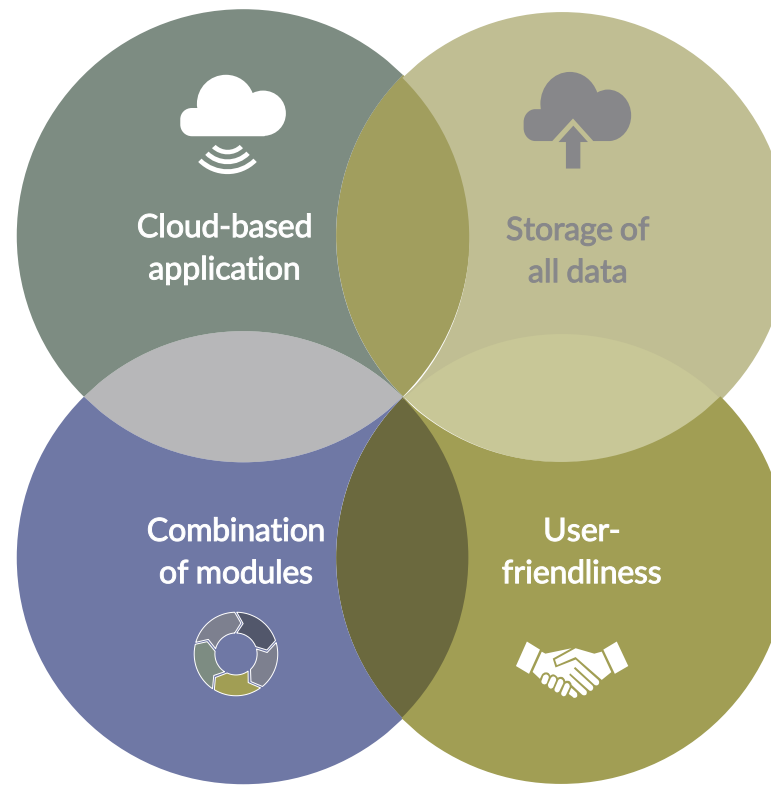
Direct access to Climcycle - including data storage in Climcycle Cloud environment

Cloud-based application

This enables the customer to use the software directly and calculate results using various assumptions.

Five modules combined

Climcycle carries out the five modules on the basis of the data. These include the assessment of the suitability and adaptation of the EU taxonomy, the calculation of regulatory KPIs, the completion of regulatory templates, the derivation of ESG risk indicators, the calculation of ESG stress tests and the calculation of financed CO2 emissions.



Save and reuse data

In Climcycle, we have integrated a system for data storage and data monitoring as well as secure geo-redundant historization of all data. This helps our users as it guarantees the use of all relevant data for all modules. This also means the greatest possible *user-friendly* interface for all users in the front and back office.

Integrated storage and monitoring

With direct access including data storage, we offer our customers the possibility to perform all analyses completely independently and to store all input data, results, partial results and metadata directly in the Climcycle cloud environment.

Backup & Encryption Standards

Backup Policy

- SaaS solution via Microsoft Azure Cloud incl. data backup and recovery procedures within the Climcycle ESG platform

Encryption Policy

- 100% compliant process in accordance with data encryption guidelines
- Permanent storage of the calculated ESG data
- For batch uploads: ESG data automatically deleted after 24 hours

Data backup

- Data encryption within the Climcycle ESG platform + Data storage and backup via Microsoft Azure
- Geo-redundant backup storage within the EU
- Free backup creation on customer request (via Climcycle Service Desk)

Permanent data storage

- Data is stored in the Microsoft Azure SQL database + encrypted in real time at file level
- Database backup via symmetric encryption DEK

Intermediate storage of data

- Cache space in Microsoft Azure Blob Storage (CSV file) using AES-256 encryption standard

Transfer of data

- Data traffic management via Microsoft Azure Application Gateway incl. SSL/TLS end-to-end encryption

Annual
Penetration tests

ISO/IEC 27001
certified

Advantages of Climcycle



Climcycle is the **only all-in-one ESG solution for financial institutions**



All Climcycle modules are **regulatory-safe and are audited by KPMG.**



Climcycle is constantly being developed and adapted to the latest regulatory requirements and market developments. **There are no development costs** for the customer.



Data collection and data management are fully integrated in Climcycle.



Climcycle is **much more cost-efficient than individual solutions.**



Climcycle has been used by numerous customers since 2021, including customers such as KfW Bankengruppe, Raiffeisen and Allianz.



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