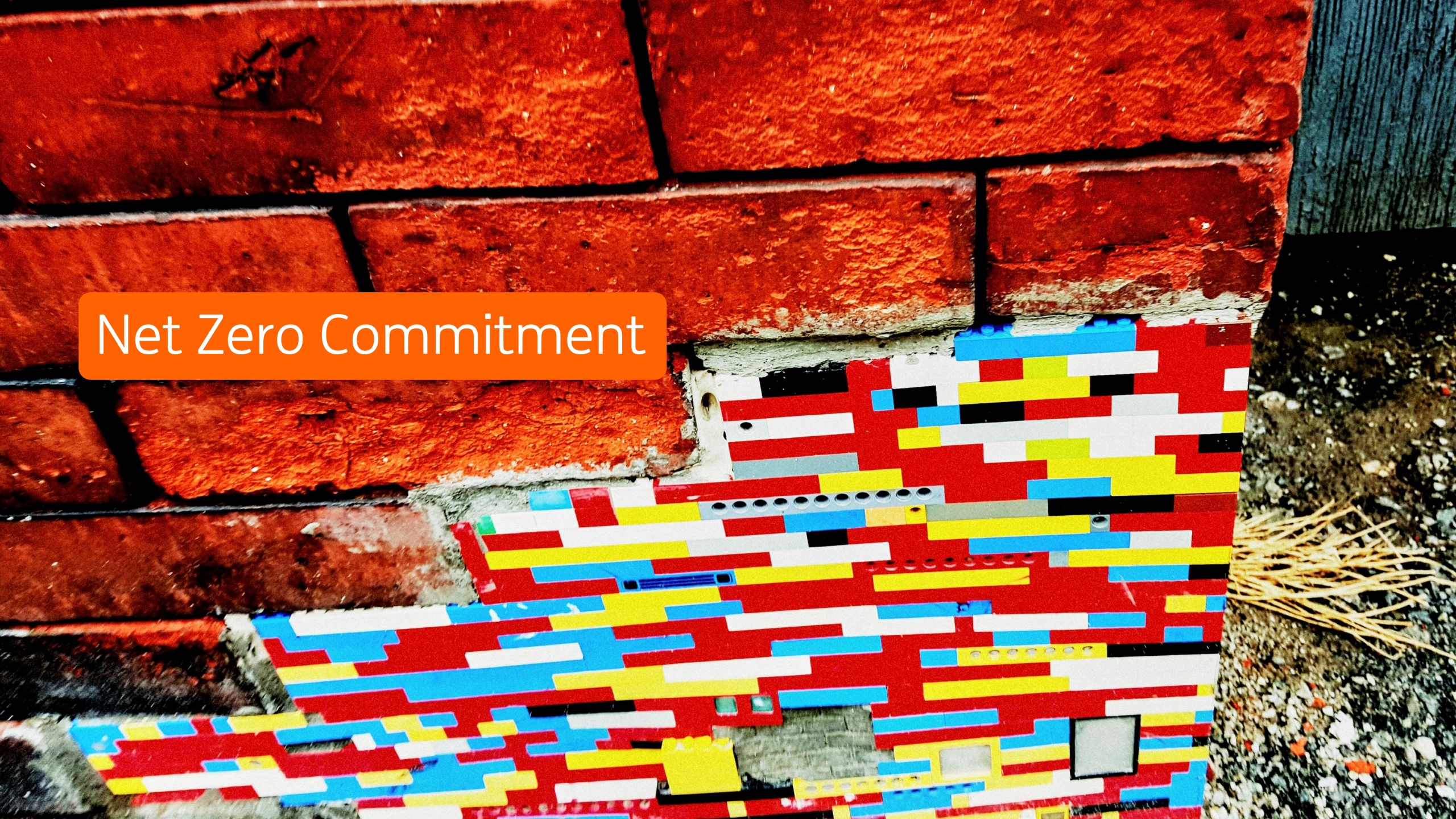


Sustainable Finance

The role of a bank in the transition



Net Zero Commitment



Terra: INGs pathway to net zero

Key principles behind Terra, our climate alignment strategy

Ambition: Steer our loan book towards net-zero by 2050 or sooner



Impact based

- Focus on most carbon intensive **sectors**
- Focus on changes needed in the sector by addressing the part of the **value chain** that will have the biggest effect



Science based

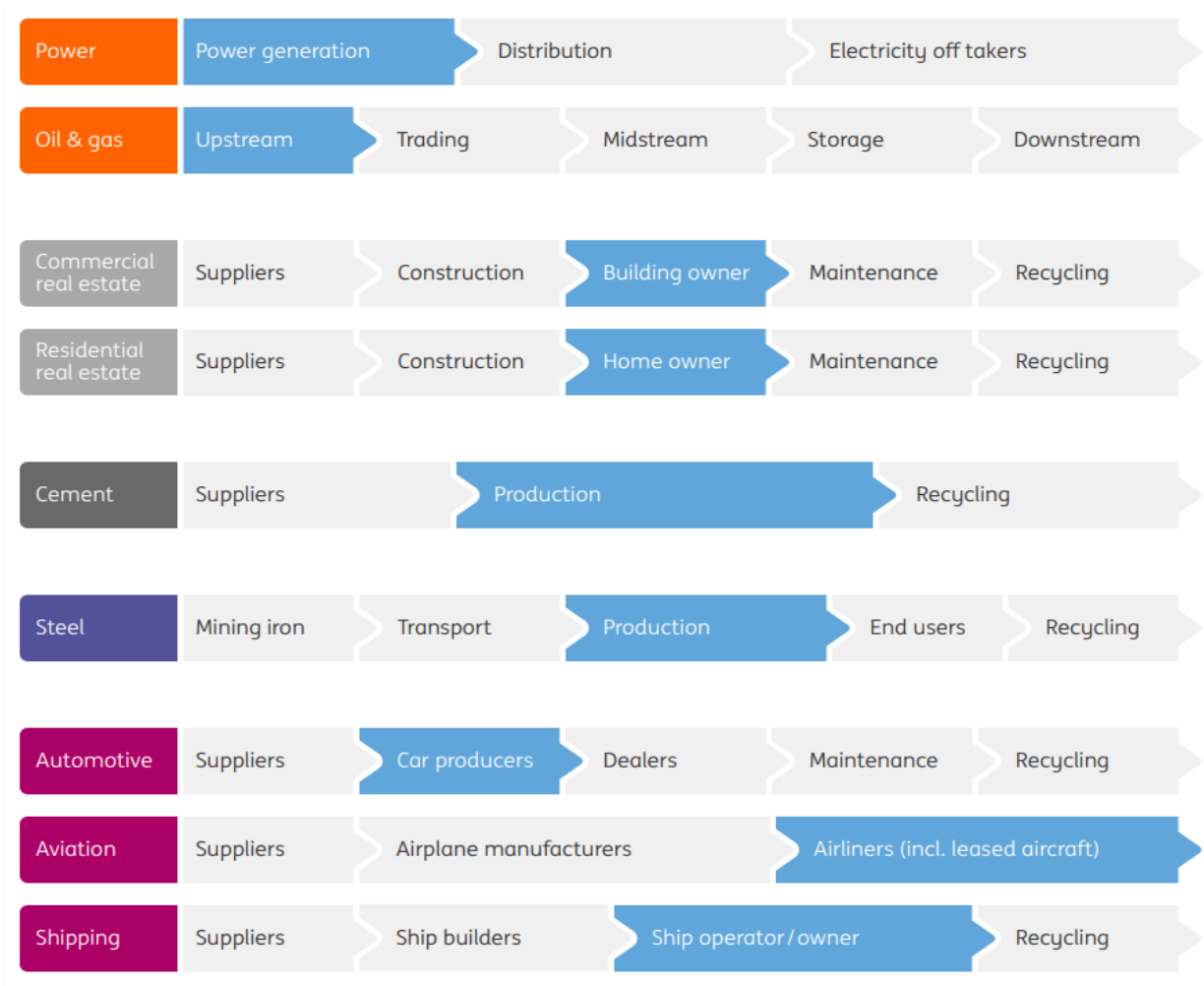
- Toolbox approach to apply best-fit methodology per sector
- Use of most up-to-date **climate science** from recognized and reputable authorities
 - IEA, ISF, GHG Protocol, PCAF
- Participate in and lead partnerships and working groups to **commit to guidelines** based on recent developments in each sector
 - NZBA, RMI
 - Sustainable Steel Principles, Poseidon Principles



Engagement driven

- **Finance and support** clients who have ambitions to decarbonise their activities
- **Engage** with new ones that will allow us to further steer our portfolio towards net zero targets by 2050
- Terra to provide **insights** on current and forecasted performance of clients

Focus on the main drivers of emissions in the Sector value chains...



Loan data is compared to externally verifiable science based data...




Loan book data



Asset-level data



Scenarios

 Data matching with open source tool

Alignment measurement process

Portfolio's forward-looking exposure, with data at asset level

Compare that exposure to climate scenarios by using standards metrics as

- Technology exposure (mix)
- Volume trajectory
- Carbon intensity



Physical assets



Owners



Parent companies



Loans



Portfolio

Sector specific benchmarks are used...

Scenarios

ISF-NZ

(Extends SDS for net-zero targets)

RTS, 2DS, B2DS

(B2DS: 50% chance to limit temp. rise below 1.75C)

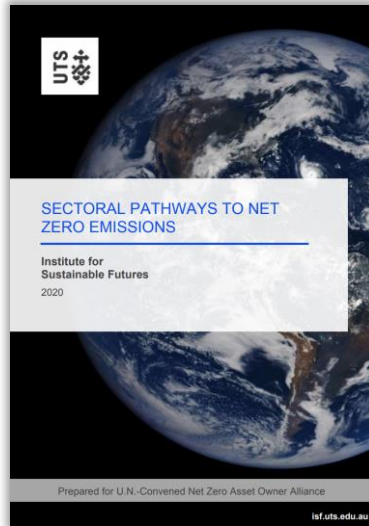
CPS, STEPS, SDS

(SDS: 50% chance to limit temp. rise below 2C)

IEA NZE2050

(Extends SDS for net-zero targets)

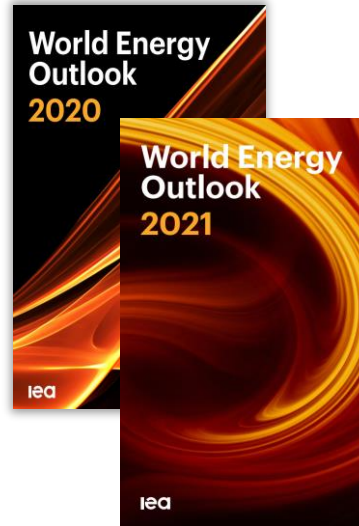
Documentation



[Institute for Sustainable Futures \(ISF NZ\) 2020](#)



[Energy Technology Perspective \(ETP\) 2017](#)

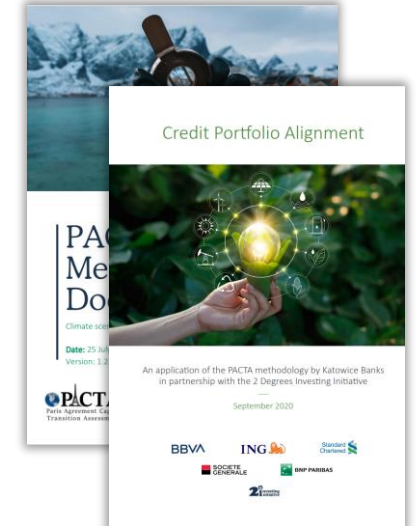


[World Energy Outlook 2020 & 2021](#)



[IEA Net Zero by 2050 \(2021\)](#)

[Annex A \(xlsx\)](#)



[PACTA Methodology and Supporting Materials](#)

[PACTA Scenarios Supporting Document](#)

A sector-based approach: methodology per sector

Sector	Outstanding in scope	Methodology used to measure portfolio	Scopes covered	Metric	Scenario / Pathway	Baseline		2021YE		Alignment score	Target vs. baseline	
						Year	Portfolio value	Convergence pathway value	Portfolio value		2030	2050
Power generation	€ 8.9 billion	PACTA	Scopes 1, 2	kg CO ₂ e / MWh	IEA NZE 2050	2018	335	289	223	-23.0%	-53%	-100%
Upstream oil and gas	€ 3.1 billion	PACTA Credit Application Paper	N/A	Outstanding amount in EUR million	IEA NZE 2050	2019	3,986	3,701	3,138	-15.2%	-19%	-69%
Commercial real estate	€ 10.9 billion	PCAF	Scopes 1, 2	kg CO ₂ / m ²	Deltaplan DGBC	2019	51.4	48.1	43.7	-9.2%	-35%	-100%
Residential real estate	€ 297.0 billion	PCAF	Scopes 1, 2	kg CO ₂ / m ²	CRREM 1.5° pathways/ IEA NZE 2050	2021	45.7	44.3	45.7	3.2%	-57%	-99%
Cement	€ 337 million	PACTA	Scopes 1, 2	t CO ₂ / t cement	ISF-NZ	2020	0.704	0.681	0.709	4.2%	-31%	-69%
Steel	€ 2.9 billion	Sustainable Steel Principles	Scopes 1, 2	t CO ₂ / t steel	IEA NZE 2050	2021	2.10	1.99	2.10	5.4%	0 * (~28%)	0 * (~94%)
Automotive	€ 2.4 billion	PACTA	Scope 3	kg CO ₂ / km	IEA NZE 2050	2020	0.199	0.189	0.187	-0.8%	-49%	-98%
Aviation	€ 3.1 billion	PACTA	Scope 1	g CO ₂ / passenger km	IEA NZE 2050	2019	88.2	82.9	130.4	57.3%	-33%	-87%
Shipping	€ 6.5 billion	Poseidon Principles	Scope 1	Alignment delta	Poseidon Principles	2020	-0.4%	0%	-6.0%	-6.0%	0% *	0% *

* Target for alignment score

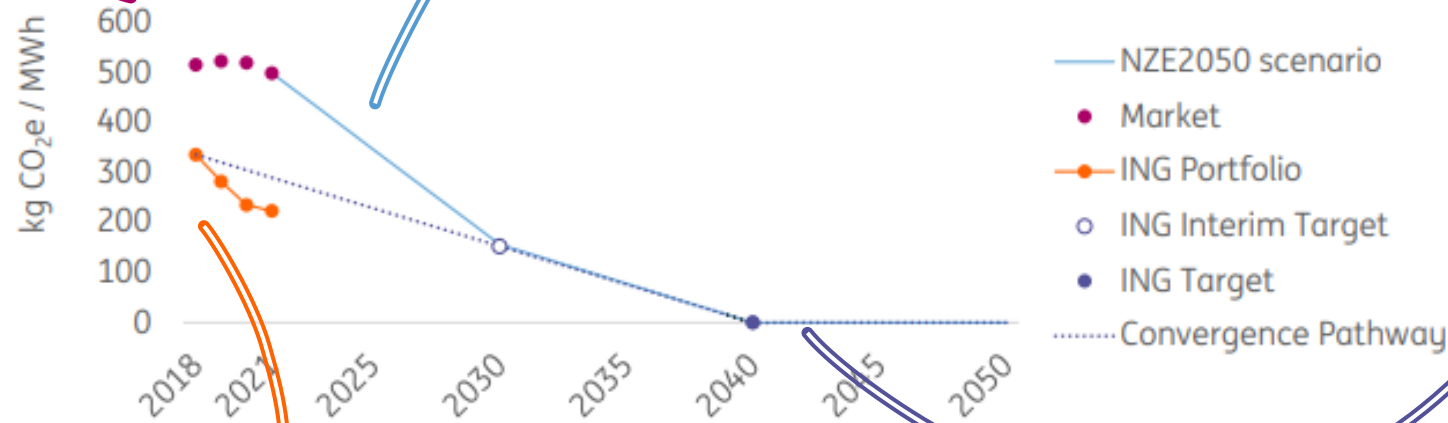
Example: Alignment dashboard- Power generation

Market portfolio: global peers' average portfolio

IEA net zero scenario: how the global market should develop to reach net-zero by 2050 (1.5°C)



- On track: Under or equal to pathway or scenario
- Above pathway by up to 5%
- Not on track: Above pathway by more than 5%



ING's lending portfolio

ING target: where ING's portfolio needs to be in 2040 to be aligned with net-zero by 2050

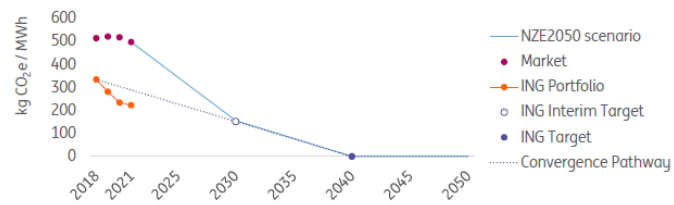
Climate Alignment Dashboard: Results YE2021

- On track: Under or equal to benchmark
- Above benchmark by up to 5%
- Not on track: Above benchmark by more than 5%

Power Generation

Global Decarbonisation Pathway

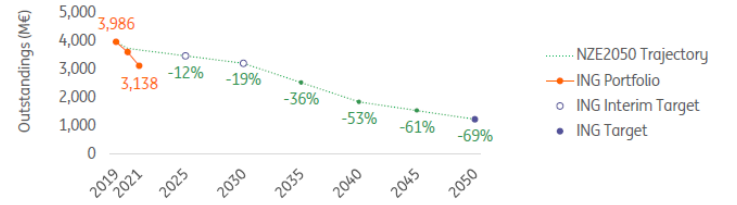
ING vs. pathway
-23.0%



Upstream Oil & Gas

Absolute Financing Trend Reduction Pathway

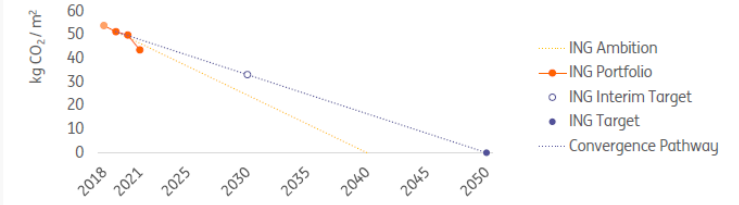
ING vs. NZE2050
-15.2%



Commercial Real Estate

NL Decarbonisation Pathway

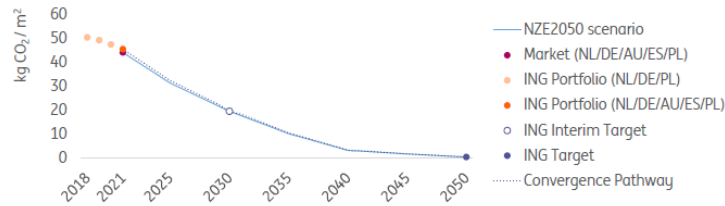
ING vs. pathway
-9.2%



Residential Real Estate

Global Decarbonisation Pathway

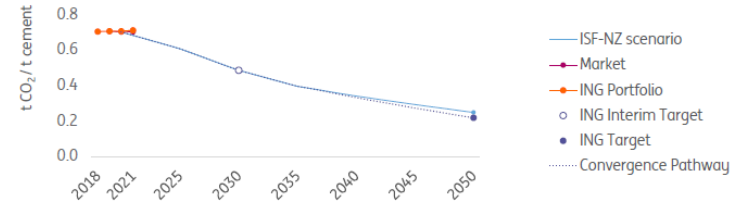
ING vs. scenario
+3.2%



Cement

Global Decarbonisation Pathway

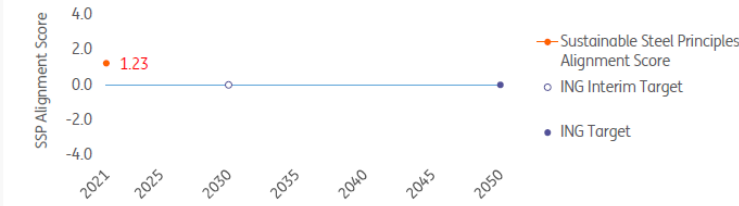
ING vs. pathway
+4.2%



Steel

Sustainable Steel Principles 2021YE

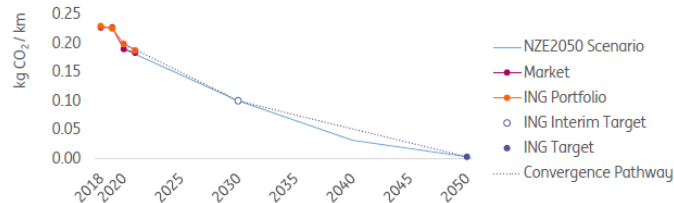
Alignment delta
+5.4%



Automotive

Global Pathway to Zero Tailpipe Emissions

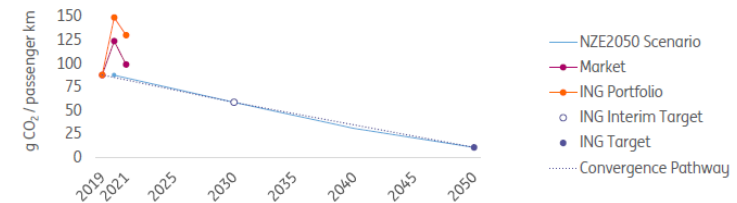
ING vs. pathway
-0.8%



Aviation*

Global Decarbonisation Pathway

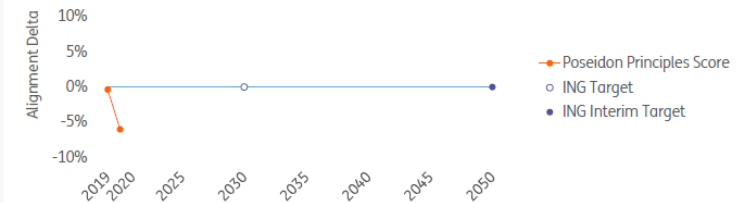
ING vs. pathway
+57.3%



Shipping

Poseidon Principles 2020YE

PP score
-6.0%



* Despite a significant reduction in absolute emissions in 2020 and 2021, the aviation sector experienced a severe fluctuation in CO₂ intensity due to COVID. Please refer to the sector deep-dive for further information.

Net-Zero Banking Alliance (NZBA)

What does it mean for signatories?

- 1 **Transition** the operational and attributable GHG emissions from their lending and investment portfolios to align with pathways to **net-zero by 2050 or sooner**.

Scope:

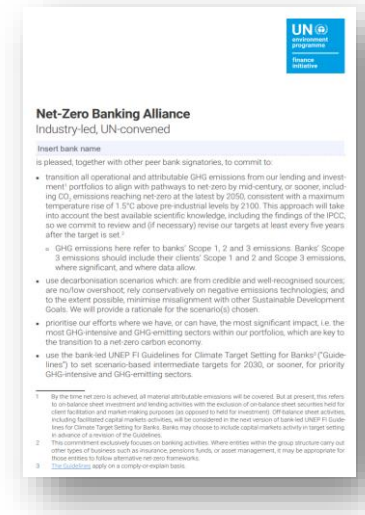
- Scope I and II GHG emissions
- Scope III emissions from on-balance sheet lending and investment activities
- Underwriting activities, securities for market-making purposes excluded
- Off-balance sheet activities (incl. facilitated capital markets activities) excluded
- Excluded activities will be covered by the time net-zero is achieved

- 2 **Within 18 months** of joining, set 2030 targets (or sooner) and a 2050 target, with intermediary targets to be set every 5 years from 2030 onwards

- 3 **Banks' first 2030 targets** will focus on priority sectors where the bank can have the most significant impact, i.e. the most GHG-intensive sectors within their portfolios, with further sector targets to be set within 36 months

- 4 **Annual publish** absolute emissions and emission intensity in line with best practice and within a year of setting targets, disclose progress against a board-level reviewed transition strategy setting out proposed actions and climate-related sectoral policies

- 5 **Take a robust approach** to the role of offsets in transition plans

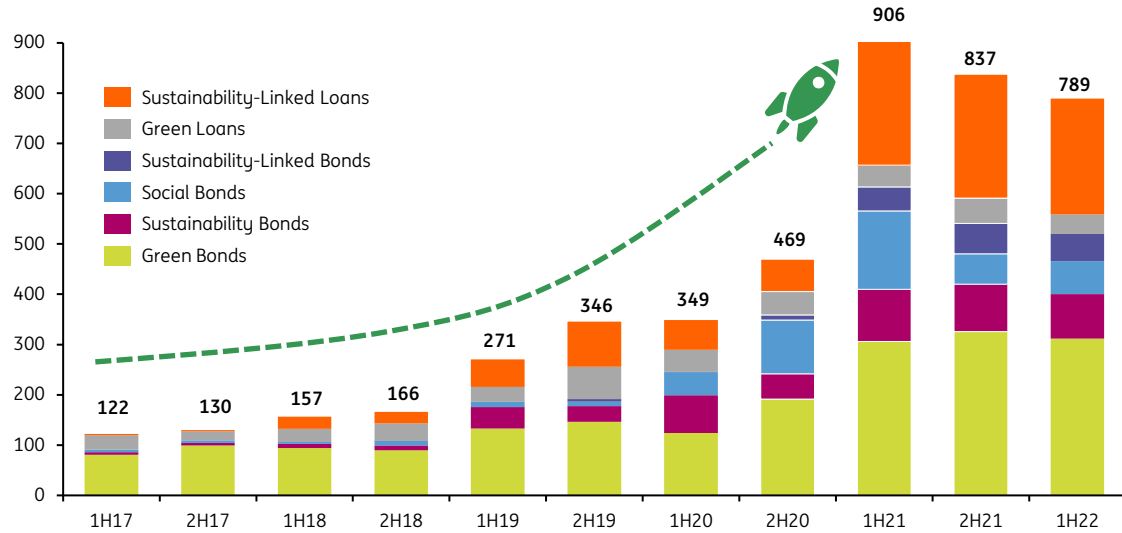


Supporting the transition through financing



The sustainable finance market showed a massive growth over the last years...

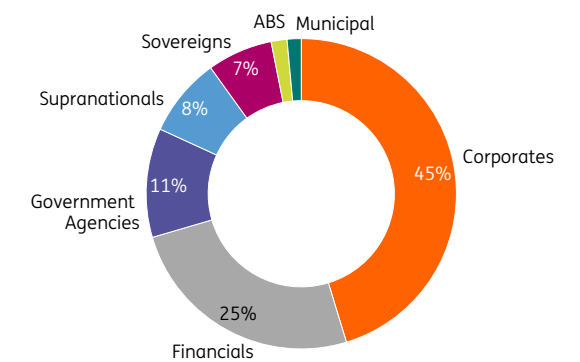
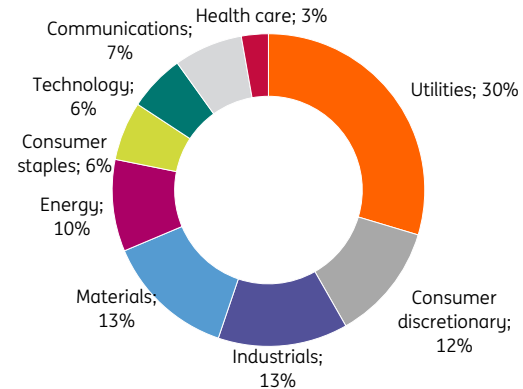
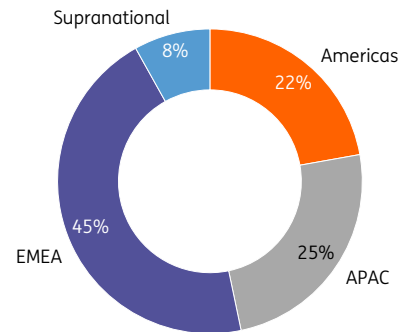
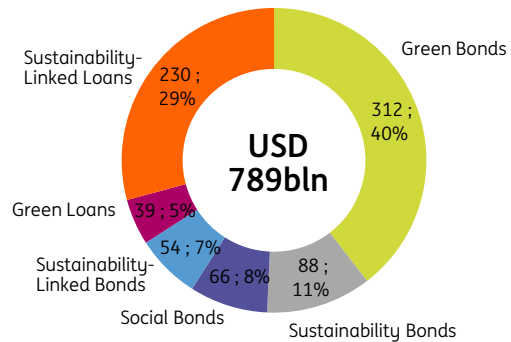
Semi-annual Sustainable Finance Activity (by instrument in \$ bln):



Cumulative Sustainable Debt issued up until 1H22:



Data as at 1H22 – Activity by Instrument Type, Region of Risk, Industry** and Issuer / Borrower Type:



ING offers several finance solutions to support sustainability ambitions

With a constant focus on innovation and product development

Sustainability Linked Loan

Loans that can be used for general corporate purposes, which link the interest margin to the improvement of the client's external ESG score or tailored KPIs

Green Financing

Green Finance Instruments (loans, bonds, Schuldschein, private placement) of which the proceeds are specifically used to finance green (social/ sustainable) projects

Transition Financing

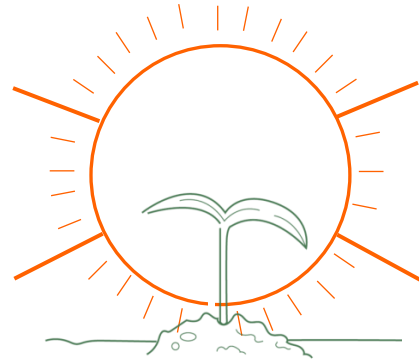
Transition Finance Instruments (loans, bonds, Schuldschein, private placement) of which the proceeds are specifically used to finance (energy) transition projects

Sustainability Linked Bond ("SLB")

Bonds that can be used for general corporate purposes, whose financial and/ or structural characteristics are linked to one or more KPI(s)

ESG Rating Advisory

Gap-analysis & review of client's sustainability performance and support in engaging with the ESG rating provider(s) to ensure investors' and lending banks' understanding of client's sustainability strategies



Sustainable Structured Finance

Structured lending for new business models, technologies and sectors such as circular economy, water and energy transition

Green Guarantee Facility

A green guarantee facility is a type of financial backstop offered by a lending institution that ensures the liabilities of a debtor for its green projects. Equally, a Sustainability Improvement Guarantee can be structured.

Sustainable Supply Chain Finance (SSCF)

Linking SCF discount rates or payment terms to sustainability performance of suppliers to strengthen the supplier base of our clients

Sustainability Improvement Derivatives (SID)

Financial market derivatives, such as an interest rate swap, where a part of the pricing is linked to the company's (existing) sustainable finance KPIs

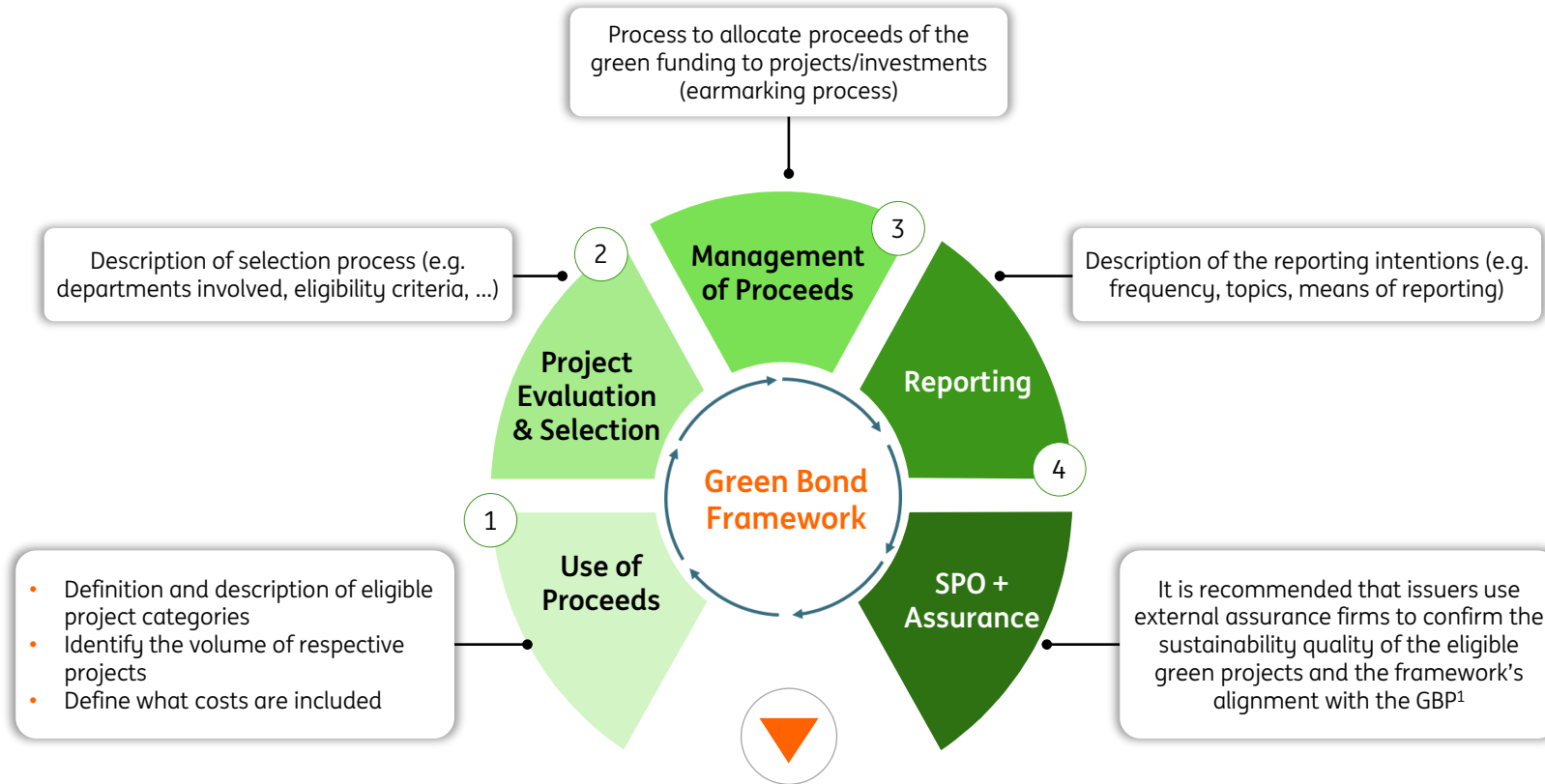
Sustainable Investments

Range of equity, mezzanine instruments for scale-ups in new business models and technologies like circular economy, water and energy transition areas

▶ A number of sustainable financing options exist, broadly distinguished between Green Financing & Sustainability-linked financing

Structuring a Green Finance framework

The cornerstone of a 'Green' issue



The EU Taxonomy

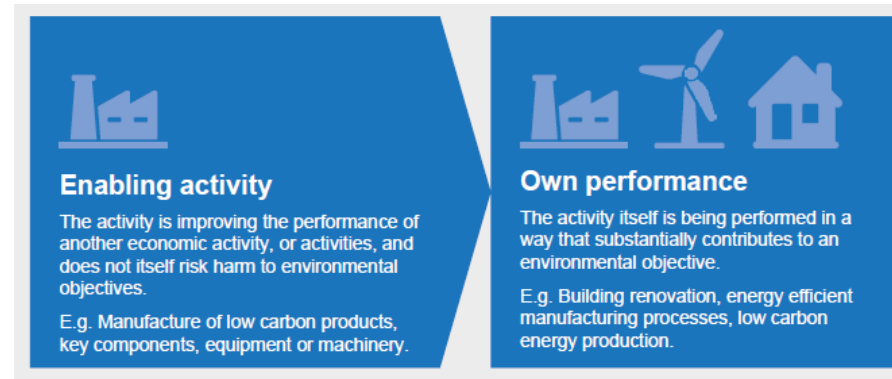
How the taxonomy is sculpted



Economic activities covered

The TEG identified **macro-sectors** based on their large contribution to total GHG emissions, via their **own performance** OR by **enabling others**

- D Electricity, gas, steam and air conditioning supply
- C Manufacturing
- H Transportation and storage
- A Agriculture, forestry and fishing
- E Water, sewerage, waste and remediation
- B Mining and quarrying
- F Construction / Buildings
- M Professional, scientific and technical activities
- J Information and communication
- L Real estate activities
- J Information and communication



Who needs to use it?



Financial market participants offering financial products in the EU, including occupational pension providers



Large companies who are already required to provide a non-financial statement under the Non-Financial Reporting Directive



The EU and Member States, when setting public measures, standards or labels for green financial products or green (corporate) bonds

Sustainability Linked bank financing

They key criteria

General requirements for the KPI approach

- **S** – Specific, 3-5 quantifiable KPIs, limited assurance by external auditor;
- **M** – Measurable, with ideally 3-5 years of historical data;
- **A** – Ambitious, stretched, all encompassing for **E, S, and G**; no cherry picking;
- **R** – Realistic, motivational, in line with the clients' operations, strategic commitment;
- **T** – Time dependent, target for 202[x], covering tenor of the instrument

Select KPIs that:

- Have current status and / or target value;
- Have not yet been reached / surpassed;
- Have clear connection to the sustainability concept;
- Are not sufficiently covered by laws or regulations;
- Are backed up by a clear methodology;
- Are auditable



Environment

- Reduction GHG emissions
- Reduction other air emissions
- Increase renewables consumption
- Reduction energy consumption / energy efficiency
- Water consumption / recycling
- Waste reduction / recycling
- Reduction of water pollutants
- Improvement of Biodiversity



Social

- Number of worker accidents
- Improvements personnel safety
- Near misses
- Overdue operating instructions
- Complaints from the community
- Employee engagement score
- Social issues – external (i.e. community-relevant)
- Social issues – internal (i.e. labour-relevant)



Governance

- Publicly disclose corporate sustainability report on an annual basis based on GRI/SASB, verified by the company's auditor (limited assurance)
- Commitment/ disclosure in line with EITI / TCFD
- Commitment to any sector leading initiatives/frameworks
- (ISO) Certification of management systems
 - ISO 14001 environmental certification
 - ISO 45001 health & safety certification
 - ISO 9001 quality certification

Selection of KPIs: should be:

- relevant, core and material** to the borrow sustainability and business strategy,
- measurable or quantifiable**
- able to be benchmarked** against an industry standard where feasible.

Calibration of SPTs: SPTs should be:

- suitably robust, ambitious and meaningful** and relevant **throughout the life of the loan**.
- Targets should be based on recent performance levels** and be based on peers comparison and/or science-based scenarios.

Loan Characteristics: economic outcome is linked to whether the selected predefined SPT(s) are met.

Reporting: KPIs/SPTs are reported at least once per annum

Verification: independent and external verification of the borrower's performance level against each SPT for each KPI, at least once a year



Anheuser-Busch InBev SA/NV announces 10.1 Billion USD Sustainability-Linked Revolving Credit Facility

Inaugural Participation in the Sustainable Finance Market with Largest Ever Sustainability Linked Revolving Credit Facility and first among Publicly Listed Alcohol Beverage Companies (at closing date)



AB InBev Sustainability Strategy

- **Anheuser-Busch InBev SA/NV** (“AB InBev” or “ABI”) is the world's largest brewing company. ABI operates in 50 countries and sells its products in over 150 countries. ABI holds market leading positions in North America, Brazil, Mexico, Africa and China.
- Through the **2025 Sustainability Goals**, ABI's most ambitious set of public commitments yet, ABI aims to create measurable positive impact, drive growth and improve lives across their entire value chain — from growers and retailers to consumers and their communities.

“

We are excited by the further integration of sustainable finance principles into the capital markets and welcome the opportunity to embed these practices deeper into both our finance organization and the broader company. Our business is closely tied to the natural environment, and it is imperative that we continue to strengthen our leadership in addressing the increasing threats of climate change. Our business and our communities depend on it.

Pricing & KPIs

- AB InBev successfully signed a new **10.1 billion USD Sustainability-Linked Revolving Credit Facility** (“SLL”), replacing the existing 9.0 billion USD Revolving Credit Facility. This facility is the largest SLL RCF and the first of its kind in the publicly listed alcohol beverage companies at its closing date. The facility incorporates a pricing mechanism that incentivizes performance against the following four key performance areas:
 1. **Further improving water efficiency in our breweries globally, supporting the Water Stewardship Goal;**
 2. **Increasing PET recycled content in PET primary packaging, contributing to the Circular Packaging Goal;**
 3. **Sourcing purchased electricity from renewable sources as outlined in the RE100 commitment; and**
 4. **Reducing GHG emissions as a part of the science-based Climate Action Goal**

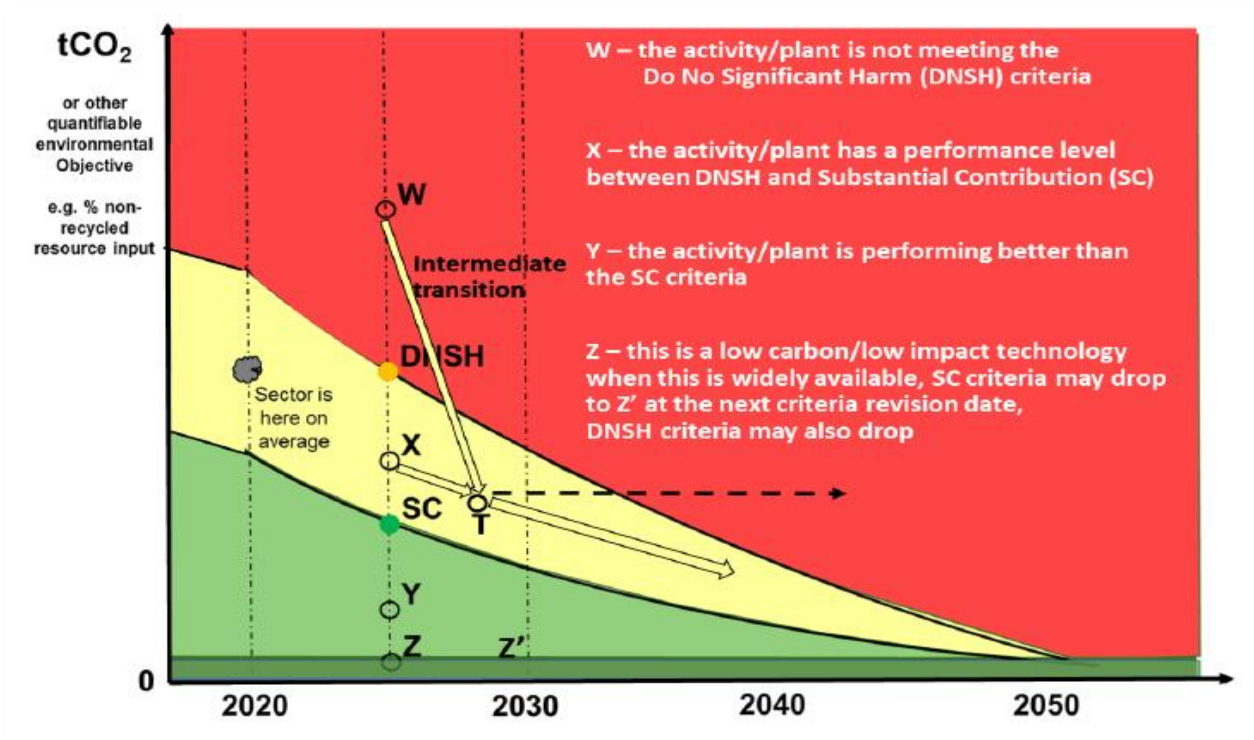
ING's Role

- ING acted as **joint Sustainability Coordinator**
- The transaction **closed in February 2021**



Transition Finance

Extended Taxonomy should support companies



Transition Finance

New Guidelines are required to support the transition

Summary NZBA Transition Finance Guide

1. Clients must have a **credible, feasible, and sufficiently ambitious transition plan**.

This includes:

- a. **Ambitious targets** and implementation strategy
- b. **Net-zero-aligned KPIs** to monitor progress
- c. Comprehensive and **transparent disclosure**, and
- d. **Clear governance** mechanisms and accountability processes

2. Transition finance must meaningfully advance a client's net-zero journey. **Transition finance can take the form of:**

- a. **Use of proceeds instruments** – where activities financed are in line with established Taxonomies or the bank's own transition finance framework
- b. **General corporate purpose instruments** – where banks assess a client's transition plan and set monitoring KPIs



ING assisted PKN ORLEN in structuring its Green Finance Framework

1

Use of Proceeds

PKN ORLEN has selected **Dark Green assets** within Renewable Energy, Clean Transportation and Pollution Prevention & Control. The criteria for Renewable Energy and Clean Transportation are aligned with the **Technical Screening Criteria** of the EU Delegated Acts. In addition, PKN ORLEN's inaugural Green Bond is **CBI certified**, aligning with all the relevant sector-specific criteria

2.

Project Selection and Evaluation

The Green Finance Framework is established through a collaboration between PKN ORLEN's **Investment Committee** as well as **Strategy Committee**. In addition, PKN ORLEN has an **Integrated Management System** in place which addresses **Environmental, Social and Governance (ESG) risks**

3.

Management of Proceeds

The net proceeds of the Green Finance Instruments in a **portfolio approach**. A look-back period of 3 years apply for eligible green capital and/or operational expenditures. Eligible green assets qualify for refinancing without a specific look-back period. At the date of issuance, approximately **90% of ORLEN's portfolio will be for financing purposes (high additionality)**, with an **allocation window until end of 2023**

4.

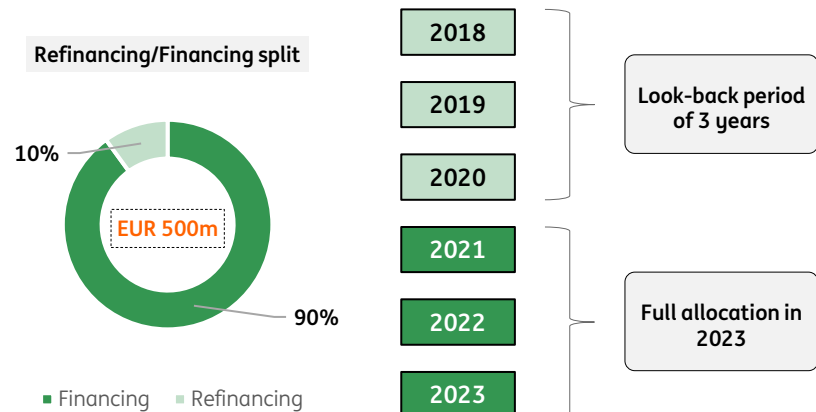
Reporting / External Review

PKN ORLEN commits to publish **annually an Allocation report and an Impact report**, until maturity. Both Allocation and Impact Reports will be **externally verified**

The **Framework has been reviewed by V.E**, who has issued a Second Party Opinion

PKN ORLEN's inaugural Green Bond is **CBI certified**

High additionality of Green Bond proceeds



Positive SPO from V.E and CBI certification for inaugural Green Bond

- V.E is of the opinion that **PKN Orlen's Framework is aligned** with the four core components of the **Green Bond Principles 2018 ("GBP")** and **Green Loan Principles 2021 ("GLP")**. In addition, PKN Orlen's climate change strategy has **adopted a majority of the four key elements** of recommended disclosures of the **Climate Transition Finance Handbook** (December 2020)
- The **eligibility criteria** of the three Eligible Categories is **in line with CBI's screening indicators**, and the **Renewable Energy and Clean Transportation Categories follow the screening criteria of the EU Taxonomy**



CBI Certification for the first non-FI issuer in CEE with a benchmark size