



CLIMACT

Empowering **you** to act
on **climate change**

Time to accelerate decarbonization

Because

“Every tenth of a degree matters”

Youth And Climate Future Conference

Feb.13th 2024

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Agenda

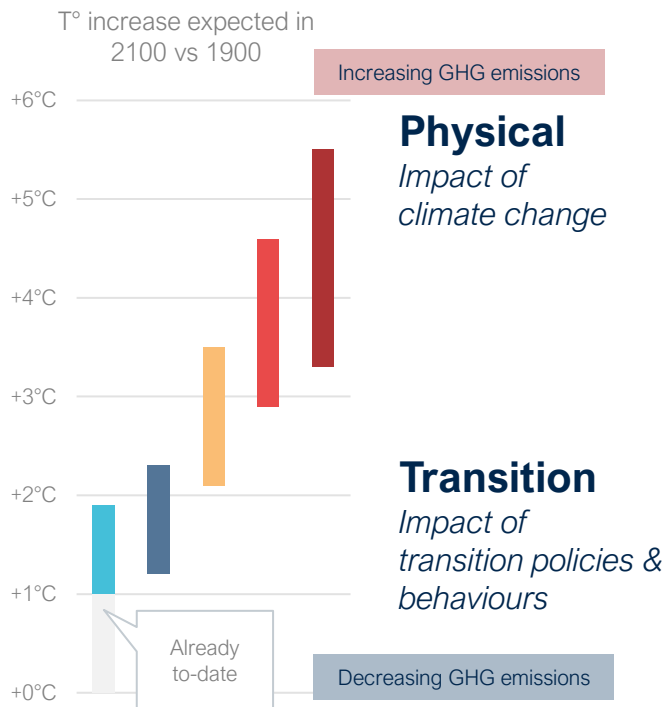
▶ Belgium needs to accelerate

▶ Solutions are known

▶ Despite a temptation to slow down,

▶ Companies are taking action

People and companies faces both physical & transition risks



ACUTE WEATHER EVENTS



CHRONIC CHANGES IN WEATHER PATTERNS



TECHNOLOGY



POLICIES & LEGAL



REPUTATION

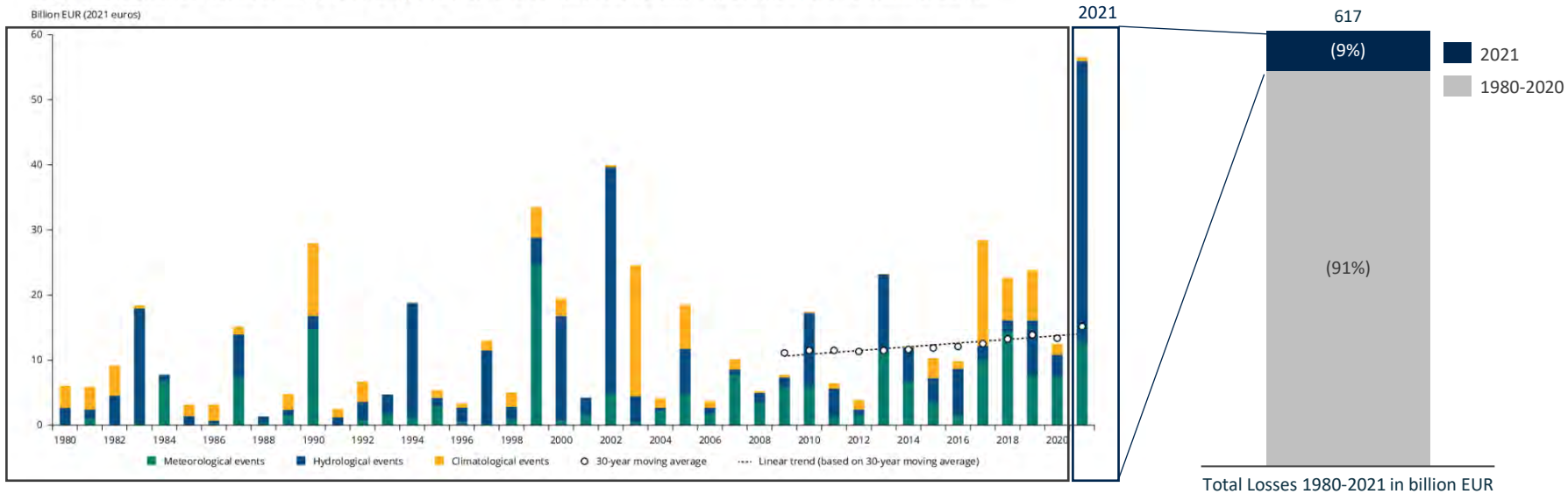


MARKET & SOCIETY



EU Climate-related costs since 1980 = 600 b€, of which more than 50 b€ in 2021

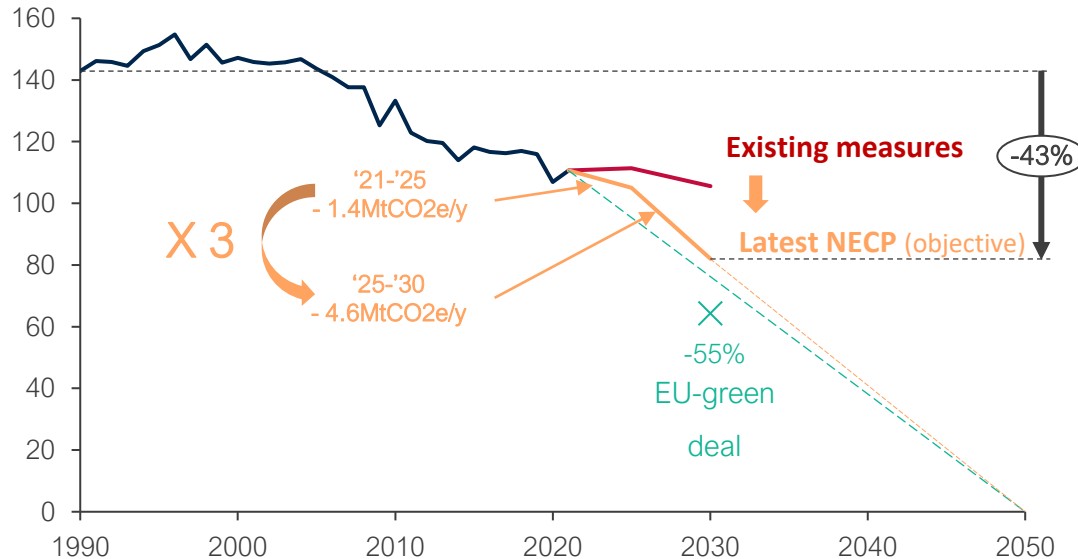
Figure 1. Annual economic damage caused by weather- and climate-related extreme events in the EU Member States



Source: European Environment Agency

The latest draft national energy and climate plan (NECP) aims at tripling the decarbonisation rate after 2025

Historical and projected GHG emissions, including LULUCF (draft NECP 2023)
[MtCO₂e]



Source: UNFCC, NECP update 2023, FOD Milieu & CLIMACT

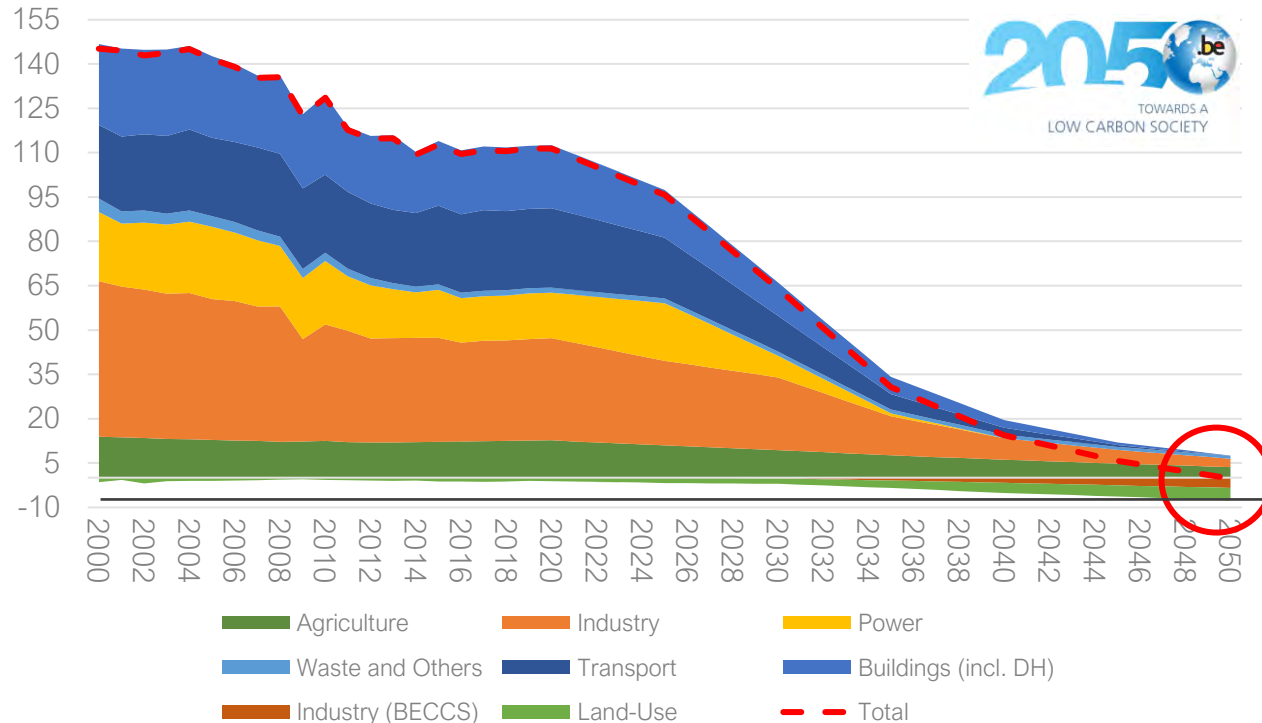
- The existing measures in the NECP are not sufficient
- However, in the latest NECP draft, the planned decarbonisation after 2025 is more aligned to reach net-zero by 2050
- This requires the tripling of the decarbonisation rate in the coming 2-3 years.

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Belgium can reach net-zero by 2050 according to federal scenarios

Total GHG emissions 2000-2050 (MtCO₂e) – CORE 95 scenario (both technological and societal changes)



- Net-zero scenarios lead to a **reduction** of GHG emissions of about **95%** in 2050.
- The remaining **5%** unabatable emissions is to be captured in **sinks**.
- **BNB** assessed that it is possible to reach targets with reasonable economic costs¹
- **All sectors contribute** to the reduction
- **Societal and technological changes** are both necessary

Source: Climact, SPF Environment (Climate Change Service),

¹The macroeconomic aspects of climate neutrality – a European perspective – BNB, June 2023

Both sectorial action and a consistent framework are needed

Measures

- Fossil fuels phase out
- All sectors need to contribute
- Innovation needed at both levels
 - Technical
 - Societal
- Coherence with other important challenges
 - Biodiversity & environment
 - Just transition
 - Job creation
 - Security of energy supply
 - ...

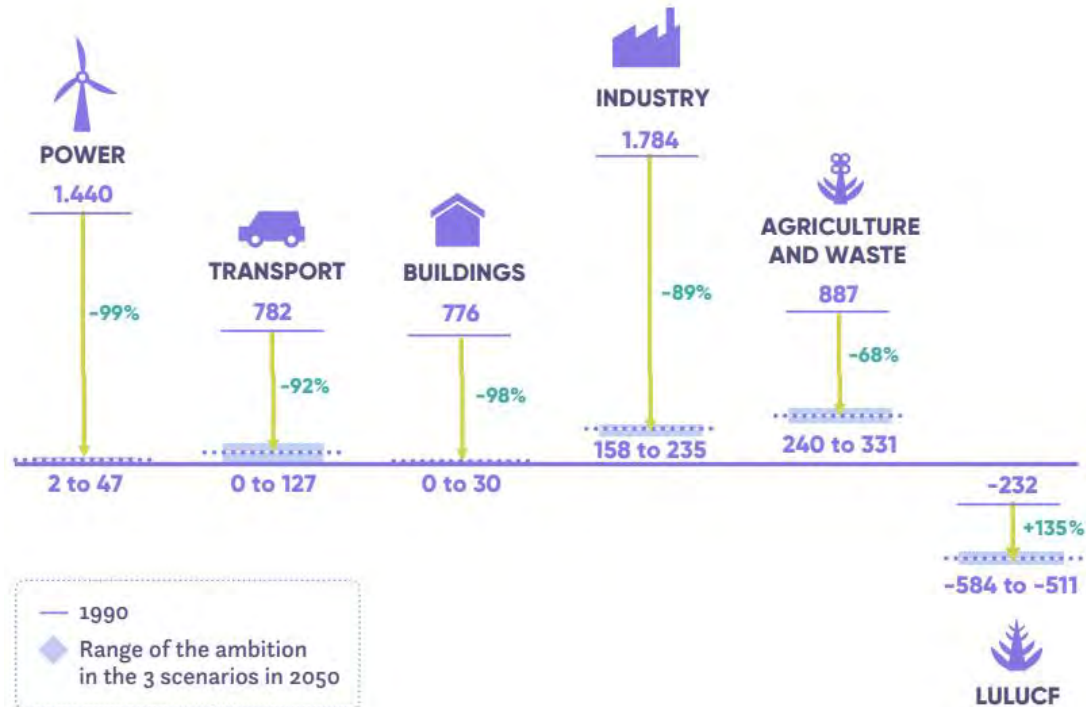


Consistent framework

- Consistency between policies
- Redirect finance
- Market signals
 - Stop subsidies to fossil fuels
 - Fiscality
 - ...
- Infrastructure investments
- Urban planning
- ...

High ambition is required in all sectors

(GHG emissions, [MtCO₂e])



Source: CLIMACT & ECF, 2018

There are 3 different types of measures to take

Avoid

- How to reduce the demand for unnecessary activities & products

Shift

- Shift to less carbon intensive activities, products and fuels

Improve

- Energy efficiency of technologies and activities



TRANSPORT

Principles

Avoid

Shift

Improve

Examples

- Reduce travel demand
 - Local sourcing (freight reduction)
 - Urban planning
-
- Modal shift (shared transport, soft modes)
 - Accelerate the shift to zero emission technologies
-
- Improve vehicle design to reduce weight, size and consumption
 - Raise energy efficiency & performance standards



BUILDINGS

Principles

Avoid

Shift

Improve

Examples

- Reduce floor space
 - Multifunctional buildings
 - Deep & fast renovation (3% per year !)
-
- Decarbonize heating technologies (heat pumps, district heating, sustainable biogas...)
-
- Industrialize the renovation process
 - Digital automation of energy services
 - Recover waste heat



INDUSTRY

Principles

Avoid

Shift

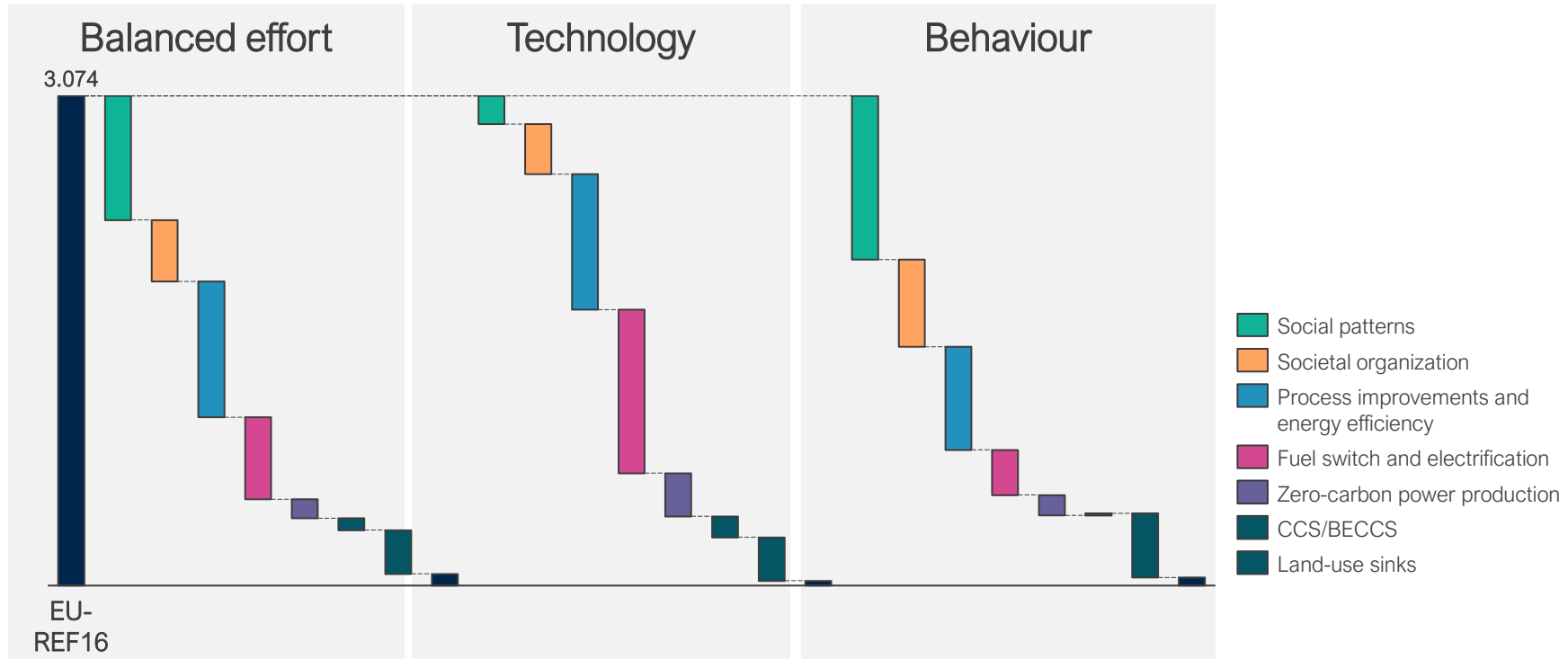
Improve

Examples

- Functional economy: Reduce needs for new products
- Circular economy: increase lifetimes + recycling
- Substitute carbon intensive materials by low-carbon ones
- Electrify & shift to sustainable biomass
- Hydrogen
- Improve processes efficiency
- carbon capture and usage

Depending on the selected options, different scenarios are possible, from more behavioural to more technological

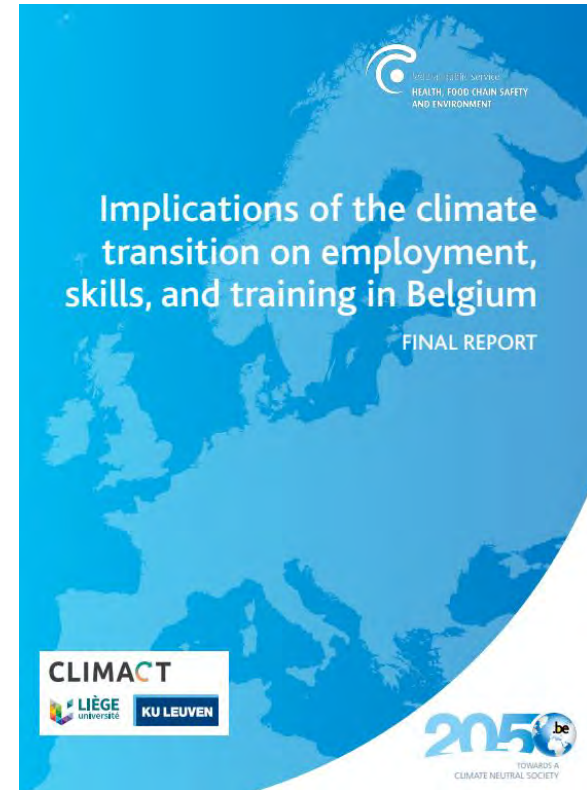
EU-28 GHG emissions in 3 net-zero scenarios [MtCO₂e/year]



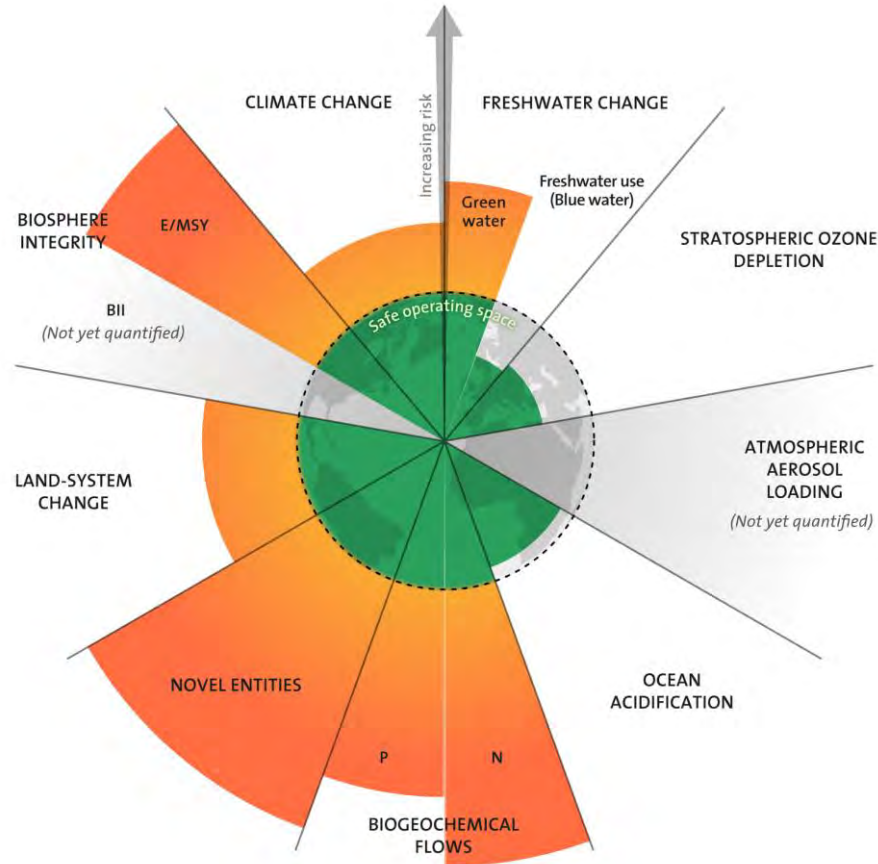
With adequate support, the transition creates more jobs than job losses

"With adequate **support framework**, climate transition can have a **net positive impact** on employment in Belgium.

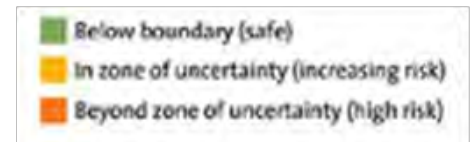
The sectors affected by climate transition could represent approximately **half of the jobs** in Belgium (...)."



Climate measures must be coherent with the other planetary boundaries



Source: Stockholm Resilience Center (Stockholm University), Steffen et al. 2022, see more info at [LINK](#)



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Slow down ?

In the current context of polarized elections, the temptation is to slow down environmental policies



AFP or Bloomberg

Verzet tegen Europese natuurherstelwet zwelt aan: na Macron en Demir vraagt ook premier De Croo "om pauzeknop in te duwen"



« Les partis populistes européens sont aux avant-postes pour transformer la colère des agriculteurs en une colère électorale »

Le Monde

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Companies are more and more aware of reputation and legal risks from greenwashing (e.g. “carbon neutral”)



Jan.2023

Revealed: more than 90% of rainforest carbon offsets by biggest certifier are worthless, analysis shows

Investigation into Verra carbon standard finds most are 'phantom credits' and may worsen global heating

- 'Nowhere else to go': Alto Mayo, Peru, at centre of conservation row
- Greenwashing or a net zero necessity? Scientists on carbon offsetting
- Carbon offsets flawed but we are in a climate emergency

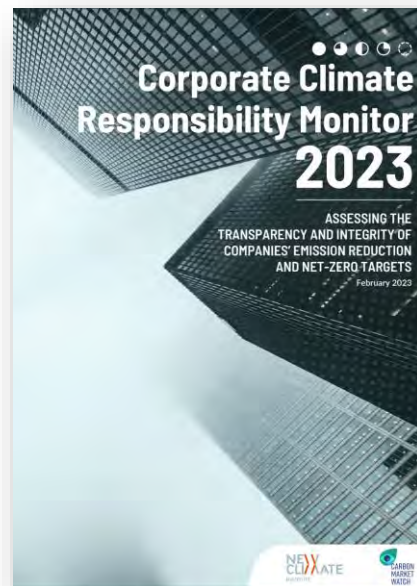


Jan.2023



Feb.2023

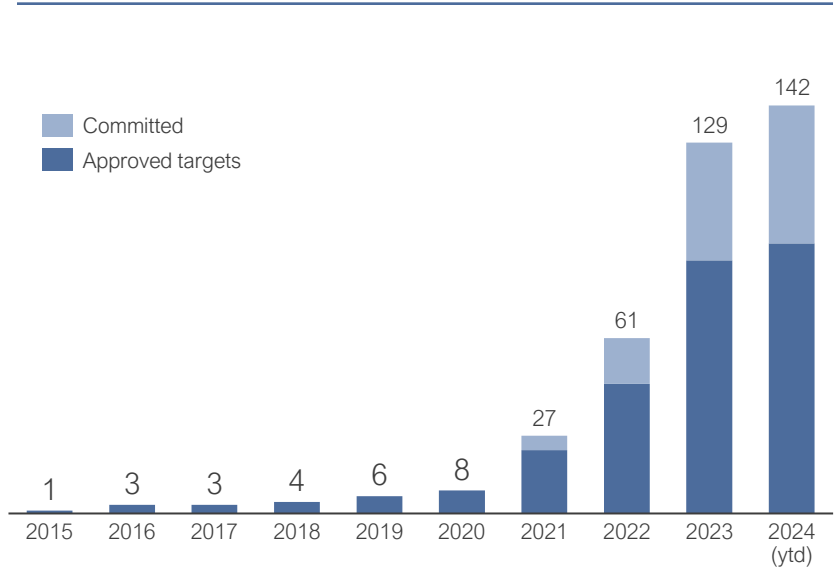
“Net-zero pledges break down to only moderate emissions reductions alongside offsetting and scope exclusion”



A rapidly growing number of Belgian companies commits to climate targets aligned with a 1.5°C trajectory



Evolution of annual number of **Belgian companies** setting/committing to SBTi targets

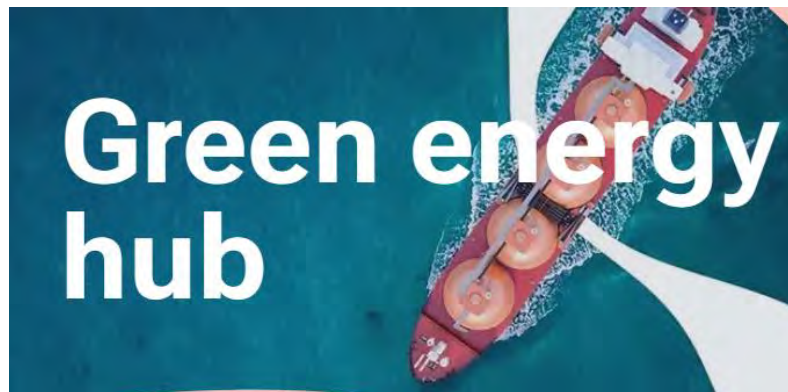


Source: SBTi Companies taking action dashboard



Climate and energy transition

With the switch to a circular economy and major investments in the energy transition, Port of Antwerp-Bruges is aiming for climate neutrality by 2050. As a major import and export hub with a very large chemical industry, we have a range of assets at our disposal as a port to limit the impact on the climate.



More and more companies are profoundly re-thinking their business models

Current members of the Belgian Alliance for Climate Action

Dozens of organisations in Belgium have already taken a stance and joined the Alliance. They range **from small-scale organisations to some of the largest corporations in the world**. Together, they represent:



95

Organisations



147740

Employees



46.89

Billion euro yearly
turnover

Belgian Alliance for Climate Action

KAYA
BELGIAN COALITION OF
ECOPRENEURS

> 500
companies

2030

CEO Alliance for
sustainability



CLIMACT

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on **climate change**

Thank you

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