

# Berlin 1995 UN Convention on Climate Change

# Conference of the Parties





# Conférence sur les Changements Climatiques 2015

COP21/CMP11



#### MINISTÈRE DE L'EUROPE ET DES AFFAIRES ÉTRANGÈRES

### France Diplomacy

Liberté Égalité Fraternité

### **COP21: The key points of the Paris Agreement**

COP21 or the 21st Conference of Parties led to a new <u>international climate agreement, the Paris Agreement</u>, which applies in every country. It aims to limit global warming to 1.5-2°C compared to pre-industrial levels, in line with the recommendations of the Intergovernmental Panel on Climate Change (IPCC).

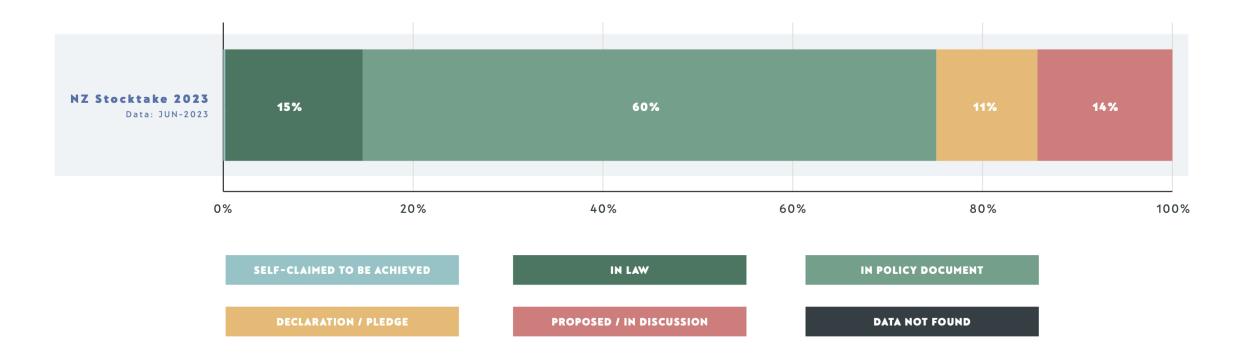
This agreement, which entered into force on 4 November 2016, is historic due to its universality (only Iran, Libya and Yemen have not ratified it) and the strength of the commitments and objectives it includes.

As host and chair of COP21, France committed to supporting a multilateral negotiations process and listening to all stakeholders to reach an agreement that is:

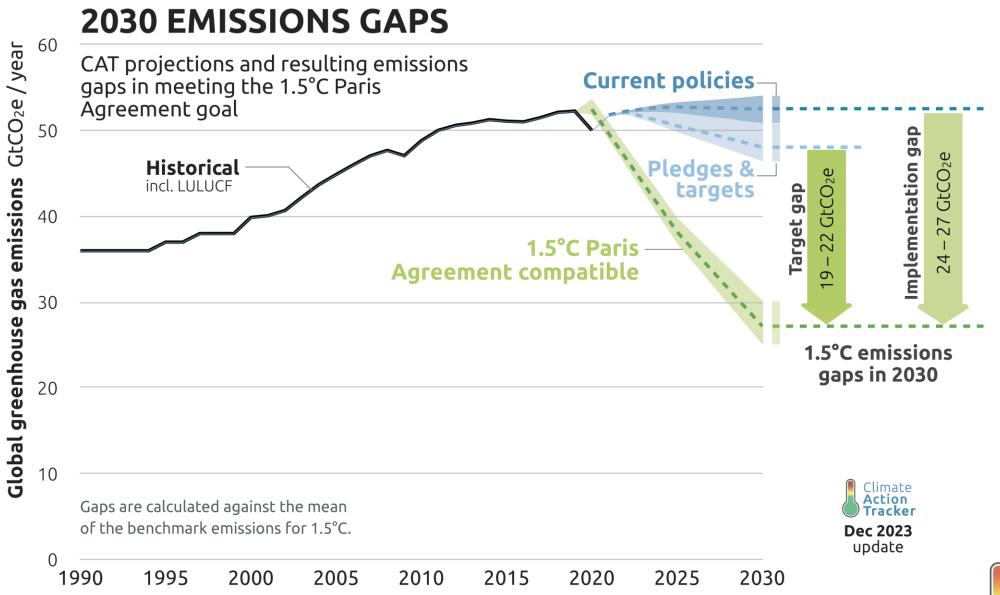
- > universal and legally binding,
- > fair and differentiated,
- > sustainable and dynamic.

## COUNTRIES: NET ZERO TARGET STATUS

Covering all parties to the UNFCCC (including the EU) and Taiwan. Percentages by emissions



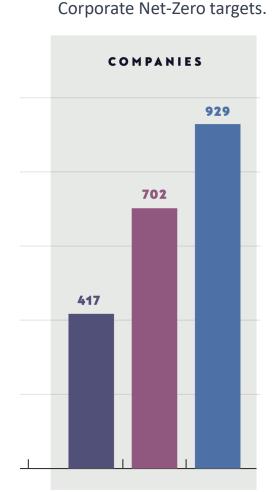
NET ZERO STOCKTAKE 2023: Assessing the status and trends of net zero target setting





### Responsible Capitalism: Corporate Governance

# ecgi



### Responsible Business Responsible Investment Responsible Banking and Insurance

Responsible here means for boards of directors to adopt a business model and strategy that is aligned with the Paris goal of "limiting global warming to 1.5-2°C compared to pre-industrial levels, in line with the recommendations of the Intergovernmental Panel on Climate Change (IPCC)".

Among the largest 2,000 publicly-listed companies in the world.

**Black et al., 2021** Data: DEC-2020 Net Zero Stocktake 2022 Data: JUN-2022 Net Zero Stocktake 2023 Data: JUN-2023



Number of companies with validated science-based targets

https://sciencebasedtargets.org/resources/files/SBTiMonitoringReport2023.pdf

Cor	porate Pledges: Transition Pathway Initiative (TPI)	2030	Emission
	audi Aramco $\times$ Exxon Mobil $\times$ TotalEnergies $\times$ Repsol $\times$ Eni $\times$ BP $\times$	Saudi Aramco Exxon Mobil (to TotalEnergies ( Repsol (targeto BP (targetod)	argeted) targeted)
Emissi 80 —	ions intensity (gCO2e / MJ)	TARGETS	
70 —		<ul> <li>National Pledges</li> <li>Below 2 Degrees</li> <li>1.5 Degrees</li> </ul>	
60 —			
50 — 40 —			
30		National Pledges	
20 —		Below 2 Degrees	
10 —		1.5 Degrees	
0 —			

2035

2040

### Corporate Pladace: Transition Pathway Initiative (TDI)

0

2015

2020

2025

2030

#### Emissions intensity (gCO2e / MJ)

Emissions intensity (gCO2e / MJ)

73.02

69.80

64.83 63.19

60.74

55.51

61.82

52.76

43.16



Hosted by:

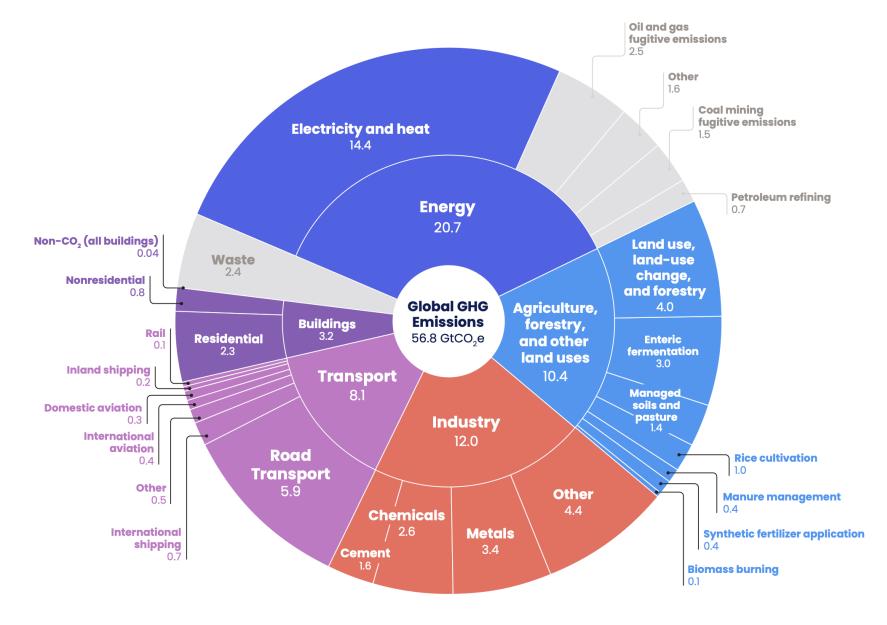


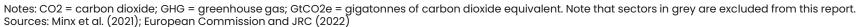
2055

2045

2050

#### Global net anthropogenic GHG emissions by sector in 2021





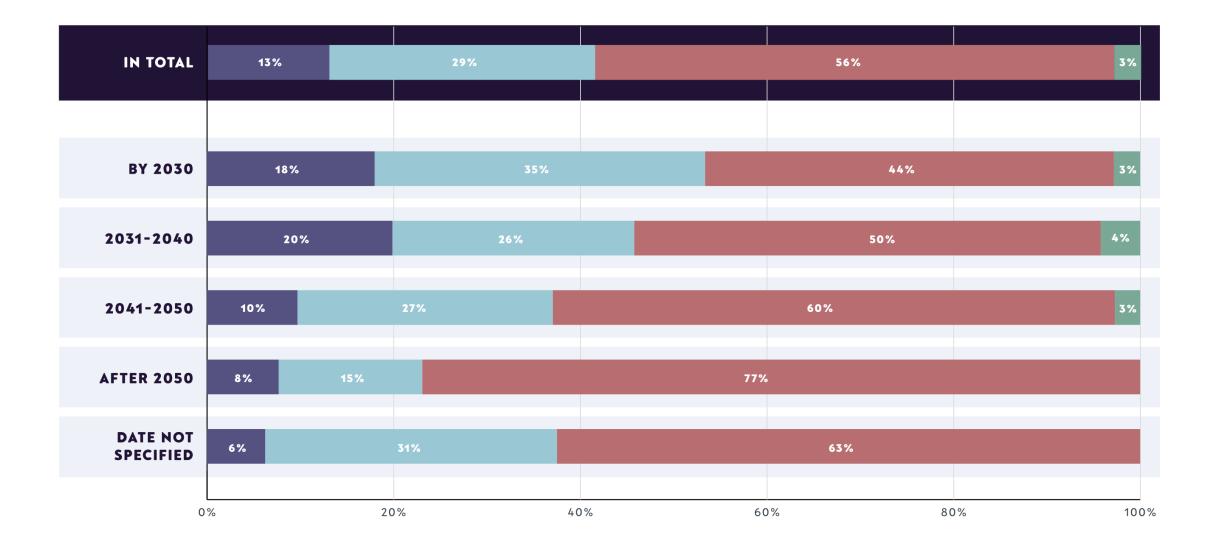


Climate Action

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### COMPANIES: USE OF OFFSET CREDITS

Use of offset credits across those companies with net zero targets, and broken up according to end target year



NET ZERO STOCKTAKE 2023: Assessing the status and trends of net zero target setting

#### This year's proxy season has officially begun. Discover the latest flagged votes and follow updates here.



# PROGRESS UPDATE

Climate Action 100+ tracks the progress of focus companies against a number of key indicators through regular progress reporting and benchmarking. Annual progress updates also provide key information about the evolution and operation of Climate Action 100+.



Download the 2023 update

# CA100+ 2023 Alignment Assessment



#### Net-Zero Alignment: Conditional Divestment Commitment

#### **Disinvestment Roadmap for Utilities\***

	022 2023	2024			2027	2028	2032	2035	2036	2037	2041	2044	2049
VEOLIA ENVIRONNEME R	WE ENDESA	EDP ENERGIAS DE Portugal	SUEZ	EDF	SSE	ENEL	E.ON	BERDROL	ANATIONAL GRID	ELIA GROUP	VERBUND	RED ELECTRICA CORPORACION	SNAM SPA
		FORTUM OYJ									TE	RNA RETE ELETTRICA NAZIONALE S	P. ENAGAS
		ENGIE											SEVERN TRENT PLC
		NATURGY ENERGY GROUP SA	4										ORSTED A/S
												ι	JNITED UTILITIES GROUP

Source: Bolton et al. 2022

#### **Disinvestment Roadmap for Energy\***

		TENARIS					KONINKLIJKE VOPAK		
OMV AG	REPSOL	ENI	GALP ENERGIA SGPS	BP	EQUINOR	ROYAL DUTCH SHELL	TOTALENERGIES	NESTE OYJ	LUNDIN ENERGY
2021	2022	2023	2024	2030	2031	2035	2039	2047	2049

Source: Bolton et al. 2022

#### Net-Zero Carbon Portfolio Alignment

#### Patrick Bolton, Marcin Kacperczyk O, and Frédéric Samama O

Patrick Bolton is a professor of finance at Columbia University and Imperial Colege London. Marcin Kacperczyk is a professor of finance at Imperial College London. Frédéric Samama is the founder of SWF RI and a researcher at Paris Dauphine University and Sciences Po.

#### We outline a simple and robust Introduction

methodology to align portfolios with a science-based, carbon budget consistent with maintaining a temperature rise below 1.5°C with 83% probability. We show how to keep the tracking error at a negligible level. This approach works for both passive and active managers. It also establishes an exit roadmap for carbon-intensive corporates, thereby generating a form of competition to decarbonize within each sector. We also discuss four sources of risks: uncertainty around a rapidly shrinking carbon budget, time impacts on decarbonization rates, implementation risk due to market-wide selling pressure, and uncertainty about taxes on polluting companies.

Keywords: benchmarking; climate change; net neutrality; net-zero portfolio construction

ver the last few years, the world has witnessed a major shift in its approach to tackle the looming climate crisis. One of the defining moments has been the Paris Agreement of 2015, which set in motion a global effort to reduce carbon emissions with the highly ambitious goal of containing global average temperature increases to no more than 2 degrees Celsius, and later an even more ambitious target of 1.5 °C. This latter goal requires a reduction in global emissions to zero by 2050, an objective coined as carbon net neutrality. The carbon neutrality objective has by now been embraced by many players, including governments, corporates, municipalities, asset owners, asset managers, and banks. In this paper, we address the question of how to structure net-zero aligned portfolios of investors, in a world where companies are not necessarily aligned with this objective. The premise of our analysis is that even if companies are not fully aligned with carbon neutrality, then at least investors should strive to be aligned by gradually reducing their carbon footprint through divestment of high-carbon emitters.

Investors may want to do their part even if others do not, and if a sufficient mass of such investors align their portfolios to a net-zero target, then companies will be more incentivized to follow suit. But how can investors be aligned while maintaining their market exposure and reducing the tracking error of their portfolio with respect to the market benchmark? We approach the alignment question from the perspective of an investor who takes the world as given, in contrast to most other current approaches that focus on corporate pathways to carbon neutrality and the implied risks for investors holding these companies. Corporate decarbonization commitments are in their infancy and the projected carbon reduction trajectories are still highly unreliable. It is thus highly uncertain to what extent and at what speed companies will decarbonize their activities, so that investors need to be prepared to implement a scenario where they can

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PL Credits: 2.0

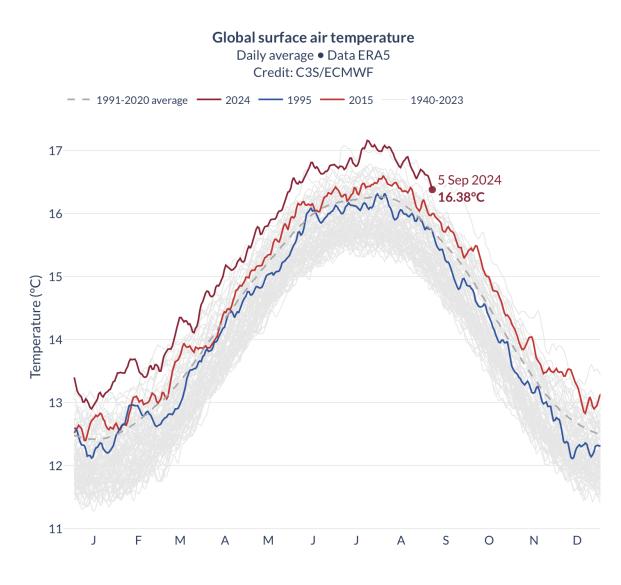
We are grateful to Mehdi Bouraï, Alexandra de Hemptinne, and Mathieu Jouanneau for their excellent research assistance. The views are those of the authors, not necessarily those of their affiliated institutions. For their helpful comments, we are grateful to two anonymous referees, N. Boyson (editor), M. Billing, J. Boissinot, S. Chatterje, E. Chew, N. Ekvall, A. Gautier, S. Goulard, A. Grandjean, R. Hodge, J. Koeb, T. Loyttyniemi, R. Mattison, M. Maurin, L. Pereira da Silva, O. Rousseau, R. Svartzman, E. White, and seminar participants at the ECB.

\* with constant parameters including emissions

### The New York Times

# Elon Musk's Plan to Put a Million Earthlings on Mars in 20 Years

SpaceX employees are working on designs for a Martian city, including dome habitats and spacesuits, and researching whether humans can procreate off Earth. Mr. Musk has volunteered his sperm.



Surface air temperature • 5 Sep 2024 Daily average • Data ERA5 Credit: C3S/ECMWF

