



INDEPENDENT ANALYSIS , FORECASTS AND CONSULTANCY

Making the most of our climate research and data

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22nd May 2024

Agenda

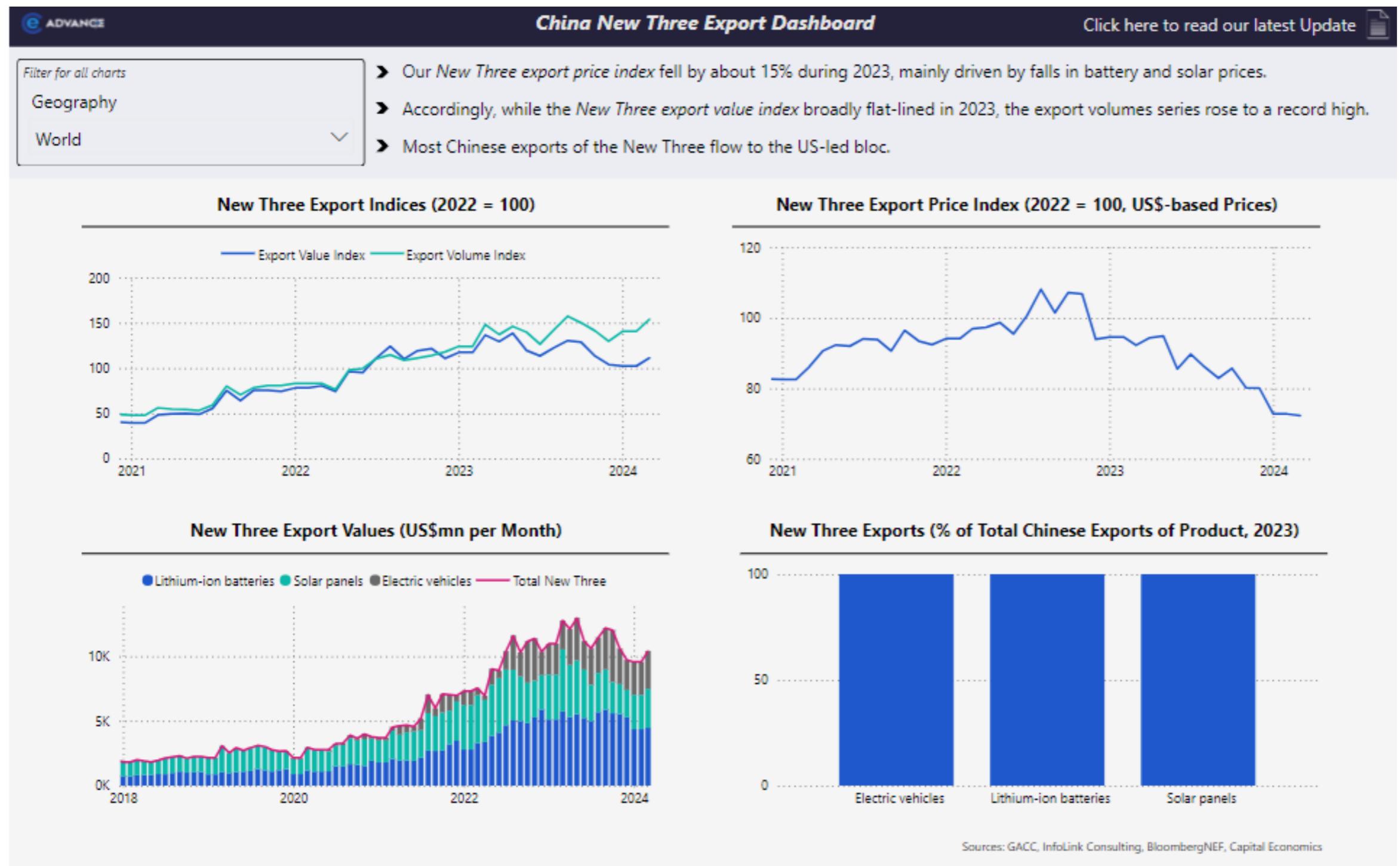
- Introduce CE's Climate Economics service
- Green transition – Asia in a global context using our climate data
- How our research can help keep track of key climate trends

Climate Economics – Service Overview

- Provides insight on the **impact of climate change** on macroeconomic performance over the coming decades, including winners and losers from the green transition, potential implications on inflation and public finances, and broader effects on other variables such as commodities and currencies.
- A key part of the service is the **wealth of climate-related data** that are interactive, customizable and downloadable.

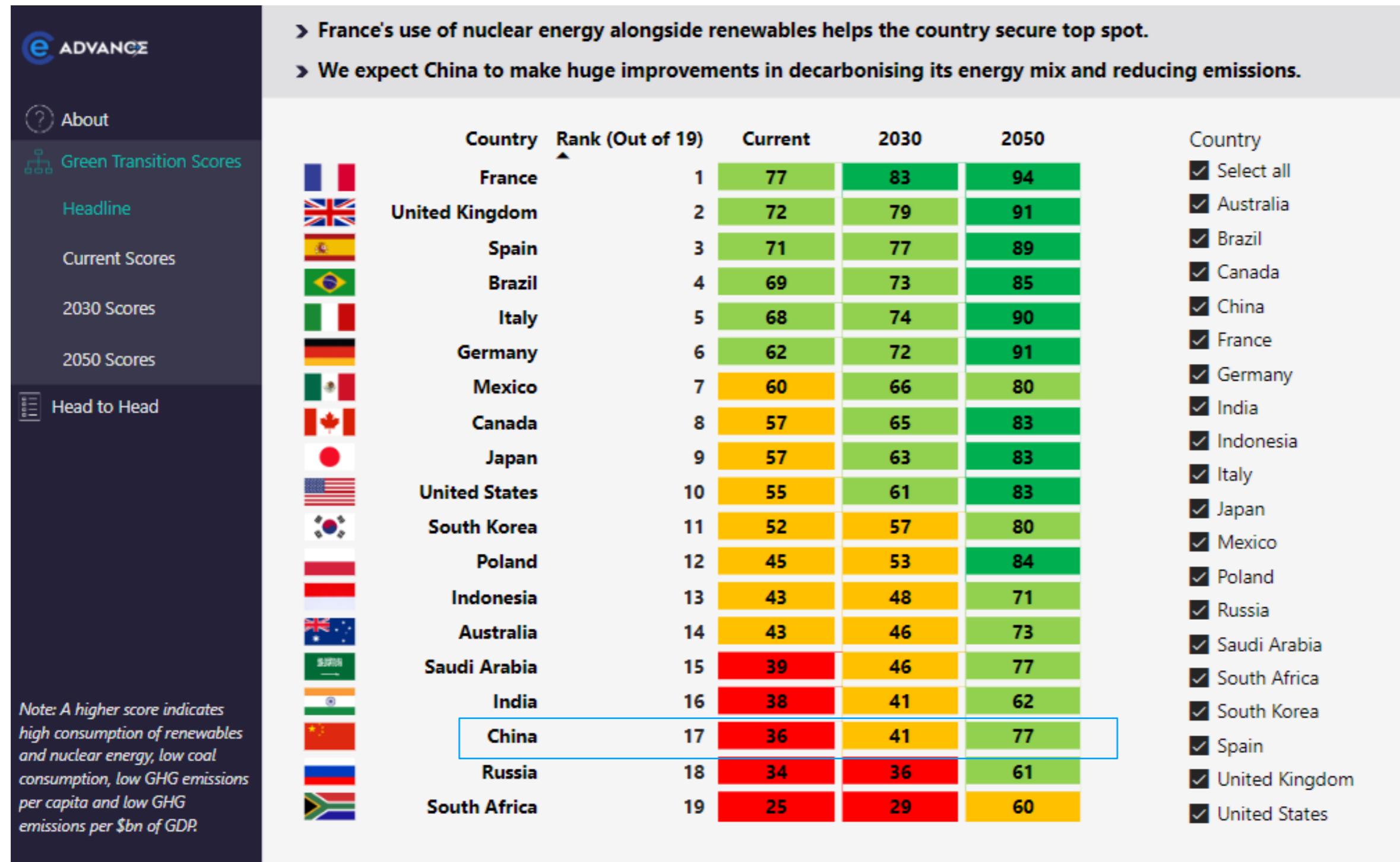
Proprietary “New Three” Chinese Exports Indices

Track China’s solar panel, EV and lithium-ion battery exports to the rest of the world



Proprietary Green Transition Scores

View how fast and extensive major emitters will decarbonize between now and 2050



Proprietary Emissions Scenario Generator

Generate alternative scenarios of long-term drivers of emissions to visualize risks

>Create your own scenario by using the green sliders below and compare to recent history and Capital Economics' forecasts. 

China Assumption Inputs (% CAGR)

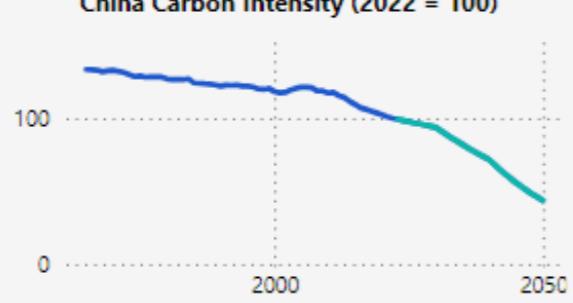
	Start Year	End Year	Carbon Intensity	Energy Intensity	Real GDP p.c.	Population	Carbon Emissions
Historical	2017	2022	-1.2%	0.9%	2.7%	0.2%	2.5%
CE Forecast (2023-2050)			-2.9%	-2.3%	2.5%	-0.4%	-3.1%
Scenario (2023-2050)			-2.9%	-2.3%	3.5%	-0.4%	-2.2%

Adjust Scenario CAGR (+/- ppts)

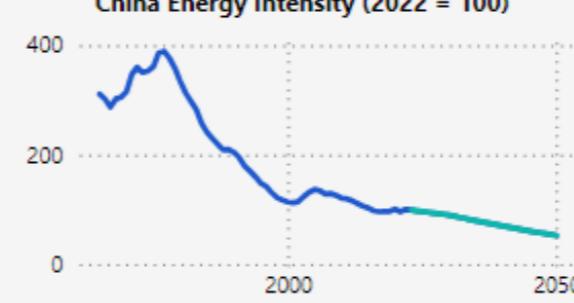
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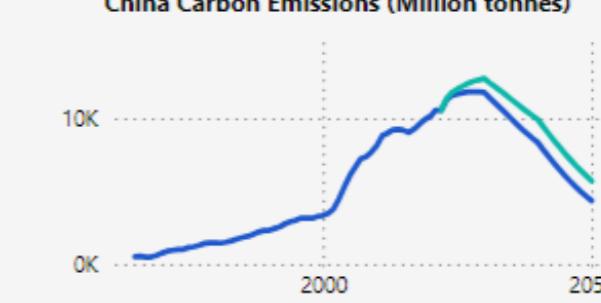
China Carbon Intensity (2022 = 100)



China Energy Intensity (2022 = 100)



China Carbon Emissions (Million tonnes)



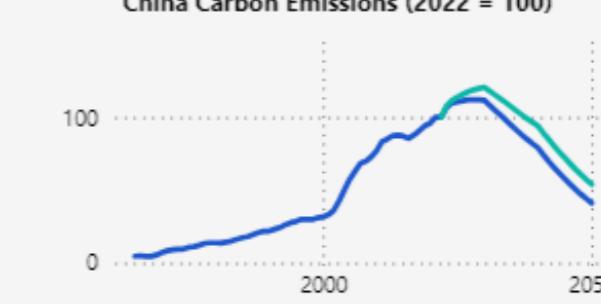
China Population (2022 = 100)



China Real GDP Per Capita (2022 = 100)



China Carbon Emissions (2022 = 100)



Actual & CE Forecast Scenario

Sources: Energy Institute, Refinitiv, Capital Economics

CE Forecasts

Scenario Generator

About

China

US

India

UK

Euro-zone

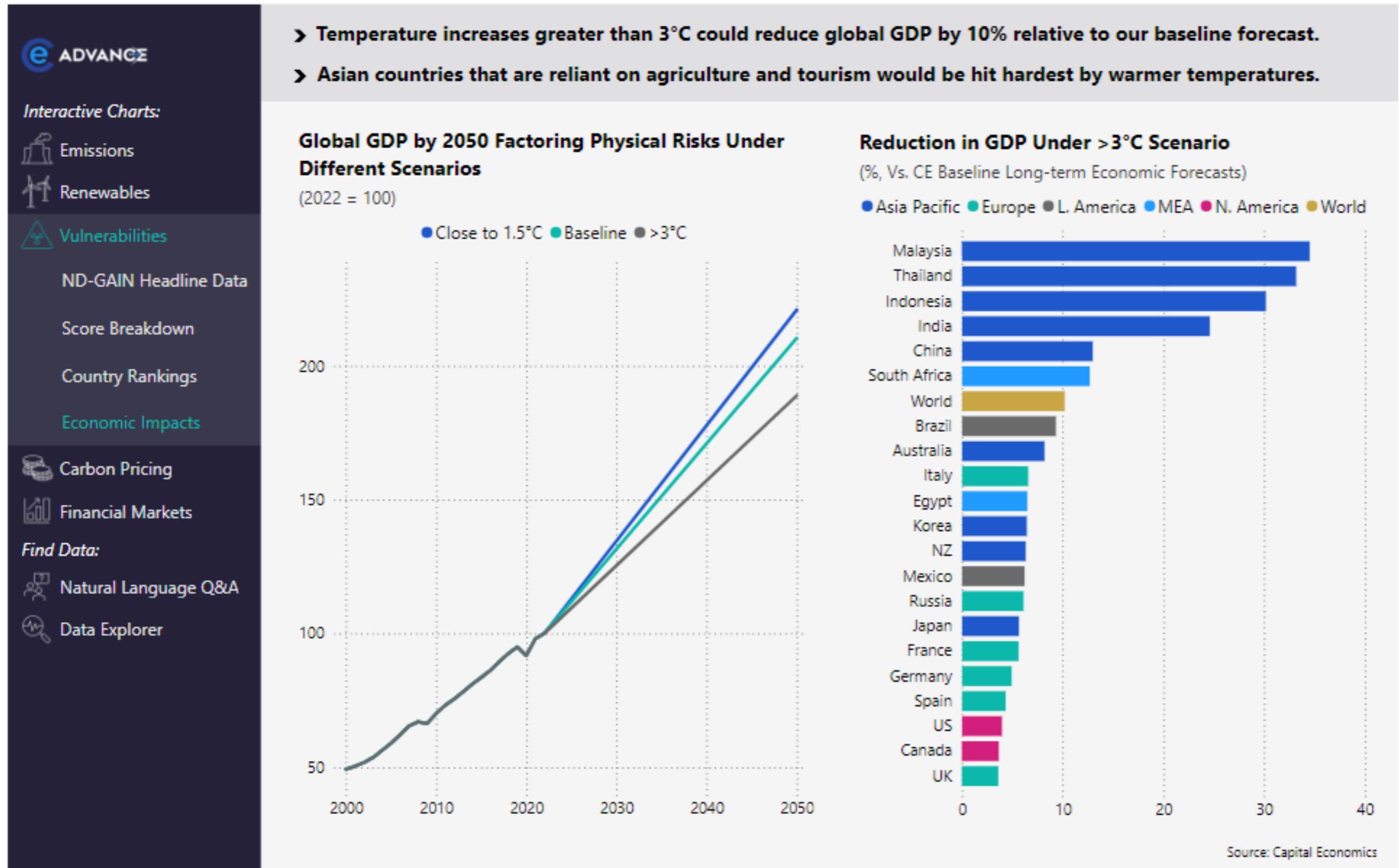
Japan

World

Data Explorer

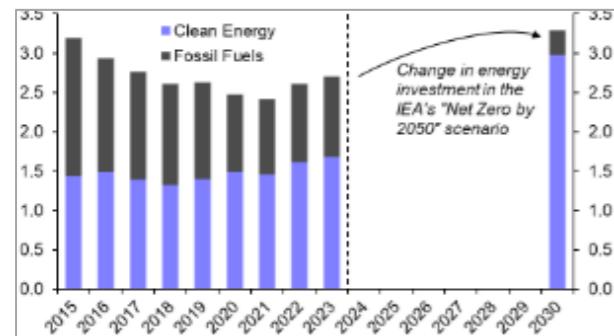
Global Climate Databank

Over 10,000 climate-related data series on emissions, renewables and vulnerabilities



Keep track of key trends and topical climate developments

Written analysis on policies, macro and financial markets impact, and new trading schemes

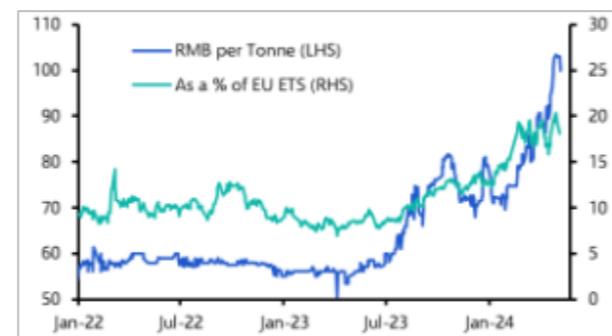


CLIMATE ECONOMICS UPDATE

Taking stock of green investment needs

Investment in the green transition is unlikely to rise quickly enough this decade to help achieve net zero by 2050. But a greater focus on areas including renewables and electric vehicles will still...

25th September 2023 · 3 mins read

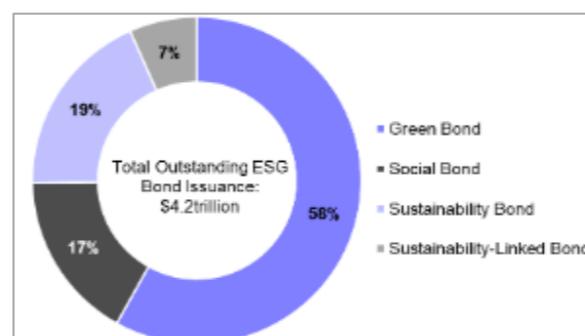


CLIMATE ECONOMICS UPDATE

What to make of the surge in China's carbon price?

The sharp rise in the price of carbon under China's Emission Trading Scheme (ETS) this year, to a record high, underlines that Beijing sees carbon pricing as a key part of its emissions-reduction...

7th May 2024 · 3 mins read

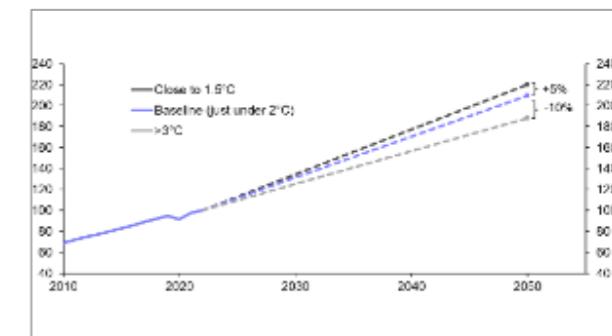


CLIMATE ECONOMICS FOCUS

Making sense of the ESG bond premium

A lack of appropriate regulation may be one reason why ESG bond issuance has slowed over recent years, and why the premium that investors are willing to pay for ESG bonds over conventional bonds has...

14th November 2023 · 15 mins read



CLIMATE ECONOMICS FOCUS

Quantifying the economic hit from climate change

Many academic studies underplay the extent to which higher temperatures could affect economic activity over the long run. Nonetheless, even in a scenario in which the global average temperature rose...

16th May 2023 · 14 mins read

How can our Climate Economics service help ADB

- Different roles, different needs
- Form, challenge and validate ADB's in-house views
- Make more informed and research-backed strategic decisions
- Understand potential risks and opportunities as countries move to greener economies



GREEN TRANSITION CHART
PACK

Green Transition Chart Pack (Apr. 2024)

Recent increases in natural gas prices in Europe have predictably been mirrored in the EU carbon price, which has risen from a 31-month low of €52 per tonne in February to €71 at the time of writing...

18th April 2024 · 1 min read



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How else can Capital Economics support ADB

- Other research services in CE Advance
- Direct access to large team of economists
- Consultancy



EMERGING MARKETS
ECONOMICS FOCUS

EM winners and losers from the green transition

The green transition will deal a significant blow to EM oil producers that have failed to save their windfalls (Nigeria, Colombia, Angola), but boost the export revenues of economies such as Chile and...

4th March 2024 · 14 mins read

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