Monash/C2Zero Real Carbon Price Index

Fact sheet | 31 Oct 2024

The Monash/C2Zero Real Carbon Price Index (RCPI) provides a weighted composite measure of the physical price of carbon¹ across all jurisdictions based on mandated carbon prices set by regulators and governments.

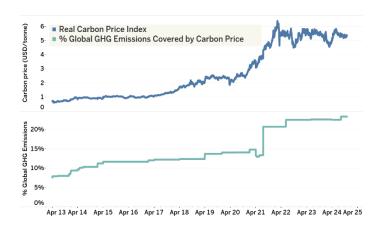
The RCPI covers national, subnational and regional jurisdictions implementing a carbon tax or carbon emissions trading schemes (ETS) ²and jurisdictions with no mandatory carbon price – the latter being counted in the index using a price of zero.

The RCPI enables an overall global carbon price and price history to be determined, reflecting the global value of carbon.

The RCPI started in April 2013, covering 20 jurisdictions, accounting for 7.88% of global GHG emissions. As of August 2024, it covered 70 jurisdictions, accounting for 23.35% of global GHG emissions.

Historical Index Value

(April 2013 - October 2024)



Highlights

- In the past month, RCPI weakened by nearly 1.00% with the Chinese and Korean carbon markets showing significant increase which were offset by decline in EU ETS and Guangdong pilot ETS.
- European carbon allowance prices saw a drop of 3.41% in October driven by decrease in gas prices amid easing geopolitical tensions.
- On October 25, 2024, China National ETS hit a record high of 104.25 yuan, driven by steady trading volumes and increasing compliance demand.

Index Price Change

	F	ercentage Chang	e	Annualised Percentage Change					
	I Mo	3Mo	YTD	IYr	3Yr	5Yr	Since April 2013		
RCPI	-0.93%	-2.03%	-4.03%	3.70%	0.62%	17.47%	18.54%		

Calendar Month Price Change

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
2024	-12.00%	-3.51%	5.25%	11.12%	2.95%	-5.16%	1.03%	-1.22%	0.11%	-0.93%			-4.03%
2023	7.59%	1.02%	-2.04%	-2.77%	-5.69%	8.07%	1.25%	-1.42%	-2.11%	-1.31%	-4.24%	8.06%	5.27%
2022	8.17%	-5.68%	-5.47%	0.83%	1.67%	3.11%	-7.39%	-0.60%	-12.26%	9.22%	6.07%	-0.77%	-5.35%
2021	7.98%	5.89%	5.81%	-3.83%	12.40%	1.32%	13.96%	6.23%	1.86%	-3.49%	13.75%	6.54%	91.13%
2020	-3.79%	-0.88%	-13.53%	7.80%	2.81%	I 2.80%	-0.63%	5.96%	-4.31%	-5.50%	13.19%	7.93%	19.90%
2019	-6.01%	-0.65%	-1.28%	19.03%	-3.77%	5.68%	0.85%	-4.05%	-2.88%	4.42%	-0.07%	2.06%	11.68%
2018	8.86%	0.92%	12.05%	2.56%	3.34%	-0.35%	5.23%	8.28%	0.58%	-12.65%	11.57%	11.79%	62.34%
2017	5.37%	-0.19%	-5.59%	8.03%	3.46%	0.87%	3.96%	3.46%	3.22%	1.24%	3.63%	0.59%	31.15%
2016	-9.18%	-2.47%	6.59%	8.92%	-3.68%	-8.19%	0.51%	2.04%	4.06%	2.22%	-8.24%	8.34%	-1.37%
2015	2.32%	-0.69%	-3.01%	17.46%	-3.73%	0.59%	-0.62%	2.89%	0.09%	2.15%	-2.59%	0.53%	14.75%
2014	3.12%	12.59%	-14.57%	13.82%	-3.57%	6.40%	-0.73%	-2.04%	-6.51%	-0.14%	2.21%	-0.43%	7.03%
2013				-10.03%	5.22%	2.33%	3.26%	1.41%	5.69%	-1.13%	-0.72%	15.83%	16.01%3

¹ It refers to carbon dioxide equivalents or CO2e.

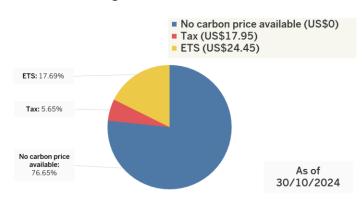
² As of August 2024, 70 national, subnational and regional jurisdictions implemented a carbon tax or ETS. The RCPI covers all 70 of those jurisdictions.

³ The return is calculated as the annualised price change from April 2013 to December 2013.

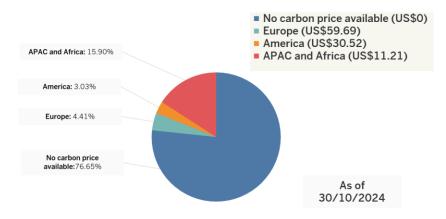
Top 10 Constituents

	Jurisdiction	Instrument	% Global GHG Emissions	Price (US\$/tonne) (30/10/2024)	Percentage change (1 Mo)
I	China National ETS	ETS	9.30%	14.61	3.10%
2	EU ETS	ETS	2.59%	69.94	-3.41%
3	Japan carbon tax	Tax	1.51%	1.90	-5.53%
4	Korea ETS	ETS	1.20%	9.11	20.44%
5	South Africa carbon tax	Tax	0.81%	10.79	-1.90%
6	Indonesia ETS	ETS	0.60%	0.62	-3.55%
7	Germany ETS	ETS	0.57%	48.98	-2.25%
8	California CaT	ETS	0.56%	37.54	5.27%
9	Guangdong pilot ETS	ETS	0.52%	5.51	-10.10%
10	Taiwan carbon fee	Tax	0.46%	9.27	-1.40%

Instrument Weights



Region Weights



Disclaimer

This document is not intended as legal, financial or investment advice. Whilst every effort has been made to ensure the accuracy, completeness or reliability of the content of this document, the authors give no guarantee in that regard and accept no liability for any loss or damage occasioned by the use of this document or the information contained therein. The opinions are those of the authors and do not represent the views of Monash University. Monash University does not accept any responsibility for any loss or damage occasioned by the use of this document.

For further information, please visit $\underline{\text{https://www.realcarbonindex.org}} \text{ or contact us at } \underline{\text{mcfsinfo@monash.edu}}.$