Monash/C2Zero Real Carbon Price Index

Fact sheet | 30 November 2023

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.

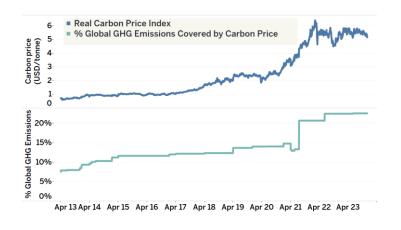
The RCPI covers national, subnational and regional jurisdictions implementing a carbon tax or carbon emissions trading schemes (ETS) ²and jurisdictions with no mandatory carbon price – the latter being counted in the index using a price of zero.

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 November 2023, it covered 58 jurisdictions, accounting for 22.59% of global GHG emissions.

Historical Index Value

(April 2013 - November 2023)



Highlights

- Last month, global carbon prices experienced another drop at 4.24%.
- China ETS has passed its primary deadline (Nov 15) set by the government, which required 95% of the major emitters to meet the compliance obligations of the second compliance cycle (2021-2022). Prices continued to decrease on relatively low volumes in the last two weeks of November.
- During November, EUA dropped by 12%, reaching a 13-month low. This decline was attributed to bearish sentiment and the selling pressure of the general energy market.

Index Price Change

	F	Percentage Chang	e	Annualised Percentage Change					
	l Mo	3Mo	YTD	lYr	3Yr	5Yr	Since April 2013		
RCPI	-4.24%	-7.49%	-2.58%	-3.33%	23.91%	21.41%	19.99%		

Calendar Month Price Change

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
2023	7.59%	1.02%	-2.04%	-2.77%	-5.69%	8.07%	1.25%	-1.42%	-2.11%	-1.31%	-4.24%		1.73%
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%	I.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

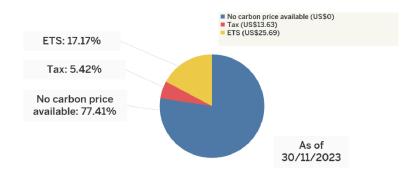
¹ It refers to carbon dioxide equivalents or CO2e.

² As of June 2023, 68 national, subnational and regional jurisdictions implemented a carbon tax or ETS. The RCPI covers 58 of those jurisdictions. The other 10 jurisdictions are excluded due to the lack of available data. ³ The return is calculated as the annualised price change from April 2013 to December 2013.

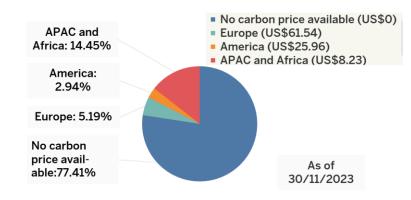
Top 10 Constituents

	Jurisdiction	Instrument	% Global GHG Emissions	Price (US\$/tonne) (30/11/2023)	Percentage change (I Mo)
I	China National ETS	ETS	8.79%	9.87	-7.44%
2	EU ETS	ETS	3.18%	76.97	-7.39%
3	Japan carbon tax	Тах	1.82%	1.95	2.35%
4	South Africa carbon tax	ETS	0.01%	7.64	-1.09%
5	Korea ETS	Tax	0.01%	6.70	-17.76%
5	Mexico carbon tax	Tax	0.69%	4.26	3.82%
7	Germany ETS	ETS	0.68%	32.66	2.96%
3	California CaT	ETS	0.60%	39.14	4.46%
9	Guangdong pilot ETS	ETS	0.51%	9.15	-0.01%
10	Ukraine carbon tax	Tax	0.39%	0.83	-0.00%

Instrument Weights



Region Weights



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