

# Monash/C2Zero Real Carbon Price Index

Fact sheet | 30 December 2022

The Monash/C2Zero Real Carbon Price Index (RCPI) provides a weighted composite measure of the physical price of carbon<sup>1</sup> across all jurisdictions, based on mandated carbon prices set by regulators and governments.

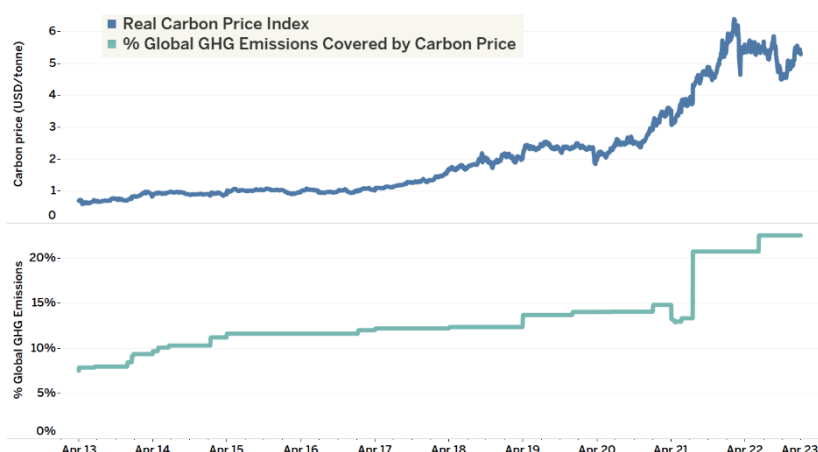
The RCPI covers national, subnational and regional jurisdictions implementing a carbon tax or carbon emissions trading schemes (ETS)<sup>2</sup> and jurisdictions with no mandatory carbon price – the latter being counted in the index using a price of zero.

The RCPI enables an overall global carbon price and price history to be determined, reflecting the global value of carbon, as priced across all jurisdictions, dating back to April 2013.

The RCPI started in April 2013, covering 20 jurisdictions, accounting for 7.88% of global GHG emissions. As of June 2022, it covered 58 jurisdictions, accounting for 22.5% of global GHG emissions.

## Historical Index Value

(April 2013- December 2022)



## Highlights

- In December 2022, the global carbon price slightly decreased by 0.79%.
- Due to a sharp increase for the first half of the month, EU ETS reached its highest since late August. However, in the following weeks, traders sold in advance of political negotiations over the ETS reform package, resulting in a decrease of 1.74% overall.
- China National ETS posted a drop of 1.73% in December, possibly as a response to the uncertainty of allocation and offsets rules in 2023.
- The price of Korea ETS increased by 3.86%, mitigating the effect of the EU ETS' and China National ETS' on the overall carbon price index.

## Index Price Change

	Percentage Change			Annualised Percentage Change			
	1 Mo	3Mo	YTD	1Yr	3Yr	5Yr	Since April 2013
RCPI	-0.79%	14.95%	-5.36%	-5.36%	29.44%	31.50%	23.15%

## Calendar Month Price Change

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
2022	8.17%	-5.68%	-5.47%	0.83%	1.67%	3.11%	-7.39%	-0.60%	-12.26%	9.22%	6.05%	-0.79%	-5.36%
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%	12.80%	-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% <sup>3</sup>

<sup>1</sup> It refers to carbon dioxide equivalents or CO<sub>2</sub>e.

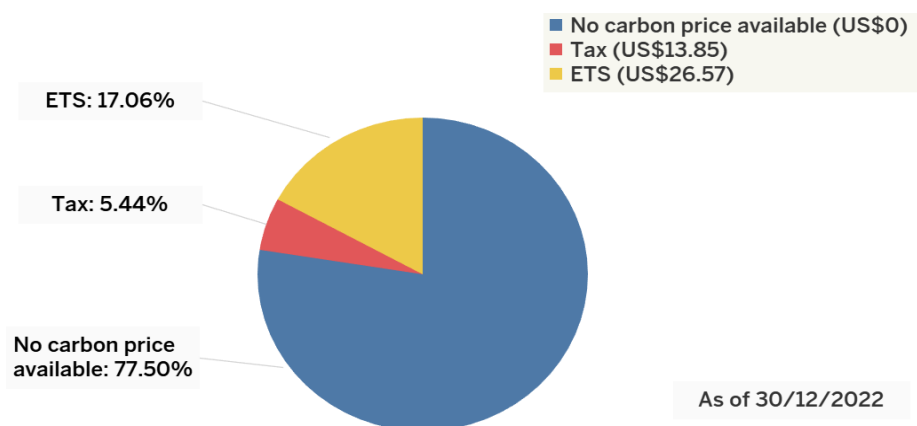
<sup>2</sup> As of June 2022, 68 national, subnational and regional jurisdictions had implemented a carbon tax or carbon ETS. The RCPI covers 58 of those jurisdictions. The other 10 jurisdictions are excluded due to the lack of available data.

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

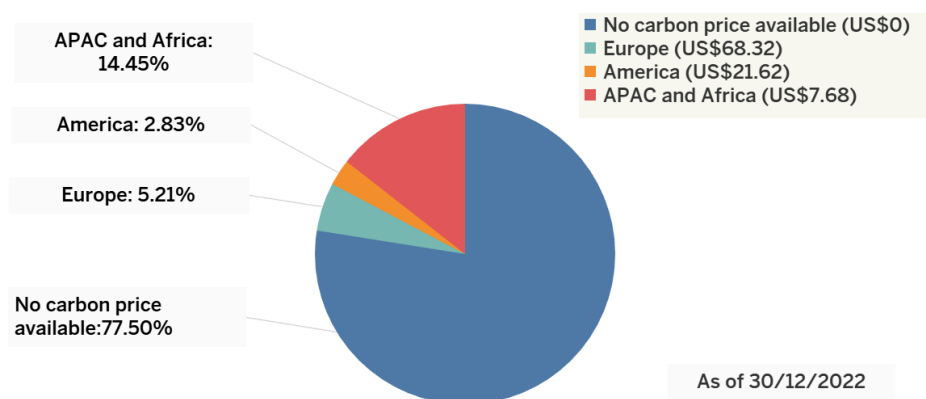
## Top 10 Constituents

	Jurisdiction	Instrument	% Global GHG Emissions	Price (US\$/tonne) (30/12/2022)	Percentage change (1 Mo)
1	China National ETS	ETS	8.79%	7.97	-1.73%
2	EU ETS	ETS	3.18%	86.45	-1.74%
3	Japan carbon tax	Tax	1.82%	2.20	5.26%
4	Korea ETS	ETS	1.08%	12.64	3.86%
5	South Africa carbon tax	Tax	0.90%	8.45	0.96%
6	Mexico carbon tax	Tax	0.69%	3.79	-1.30%
7	Germany ETS	ETS	0.68%	32.12	2.88%
8	California CaT	ETS	0.60%	27.99	6.75%
9	China-Guangdong pilot ETS	ETS	0.51%	10.96	-0.36%
10	Ukraine carbon tax	Tax	0.39%	0.81	0.00%

## Instrument Weights



## Region Weights



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