

# World Carbon Pricing Database Report

## Report version

This report version: **July 2025.**

## Contact

**Name:** Geoffroy Dolphin  
**Email:** gdolphin@rff.org  
**Website:** [geoffroydolphin.eu](http://geoffroydolphin.eu)

## Disclaimer

This report is based on the latest update of the World Carbon Pricing Database and the associated emissions-weighted carbon price. The data presented in this report is licensed under a Attribution-NonCommercial-NoDerivatives 4.0 International (CC BY-NC-ND 4.0). For any commercial use, please contact the author.

## Table of contents

<b>1</b>	<b>Cross-country summary</b>	<b>3</b>
1.1	Coverage . . . . .	4
1.1.1	CO <sub>2</sub> . . . . .	4
1.1.2	GDP . . . . .	4
1.2	Prices . . . . .	7
<b>2</b>	<b>Country Fact Sheets</b>	<b>14</b>

## List of Figures

1	Carbon pricing CO <sub>2</sub> coverage — Countries, 1990–2024 . . . . .	5
2	Carbon pricing CO <sub>2</sub> coverage — Canadian provinces, 1990–2024 . . . . .	6
3	Carbon pricing CO <sub>2</sub> coverage — US States, 1990–2024 . . . . .	6
4	Carbon pricing CO <sub>2</sub> coverage — Chinese provinces, 1990–2024 . . . . .	7
5	Carbon pricing GDP coverage - countries, 1990–2024 . . . . .	8
6	Average carbon price by country, 1990–2024 . . . . .	9
7	Average carbon price by global region, 1990–2024 . . . . .	9
8	Carbon pricing CO <sub>2</sub> coverage and prices, 2024 . . . . .	10
9	Average carbon prices and CO <sub>2</sub> coverage by world sectors, 2024 . . . . .	11
10	Maximum and average carbon prices, 2024 . . . . .	12
11	Carbon cost, 2021 . . . . .	13

## List of Tables

1	Summary statistics for 2020–2024 . . . . .	3
1	. . . . .	3

## 1 Cross-country summary

Table 1: Summary statistics for 2020-2024

Table 1

group		2020	2021	2022	2023	2024
All	count	297.00	297.00	297.00	297.00	297.00
	max	84.01	107.19	129.33	133.43	141.16
	mean	3.70	5.59	7.47	7.67	7.33
	median	0.00	0.00	0.00	0.00	0.00
	min	0.00	0.00	0.00	0.00	0.00
	std	10.44	14.62	19.36	19.99	19.42
AsiaPacific	count	39.00	39.00	39.00	39.00	39.00
	max	18.49	28.18	40.11	30.31	28.96
	mean	0.62	0.91	1.25	1.01	1.27
	median	0.00	0.00	0.00	0.00	0.00
	min	0.00	0.00	0.00	0.00	0.00
	std	2.99	4.53	6.43	4.88	5.03
EU27	count	26.00	26.00	26.00	26.00	26.00
	max	83.13	107.19	119.23	120.28	118.26
	mean	22.14	39.97	52.80	52.10	44.30
	median	15.66	37.04	51.88	50.20	39.07
	min	7.76	18.53	23.30	22.82	17.79
	std	18.62	20.05	21.34	21.86	23.29
MiddleIncome	count	105.00	105.00	105.00	105.00	105.00
	max	19.08	40.38	55.02	53.13	41.16
	mean	0.49	0.84	1.06	0.99	0.84
	median	0.00	0.00	0.00	0.00	0.00
	min	0.00	0.00	0.00	0.00	0.00
	std	2.54	5.00	6.56	6.26	4.96
OECD	count	36.00	36.00	36.00	36.00	36.00
	max	84.01	107.19	119.23	126.02	137.02
	mean	20.13	32.15	40.93	40.44	36.01
	median	15.11	28.16	40.93	39.93	31.32
	min	0.00	0.00	0.00	0.00	0.00
	std	21.07	25.30	29.10	31.49	31.72



## 1.1 Coverage

1.1.1 CO<sub>2</sub>

1.1.2 GDP

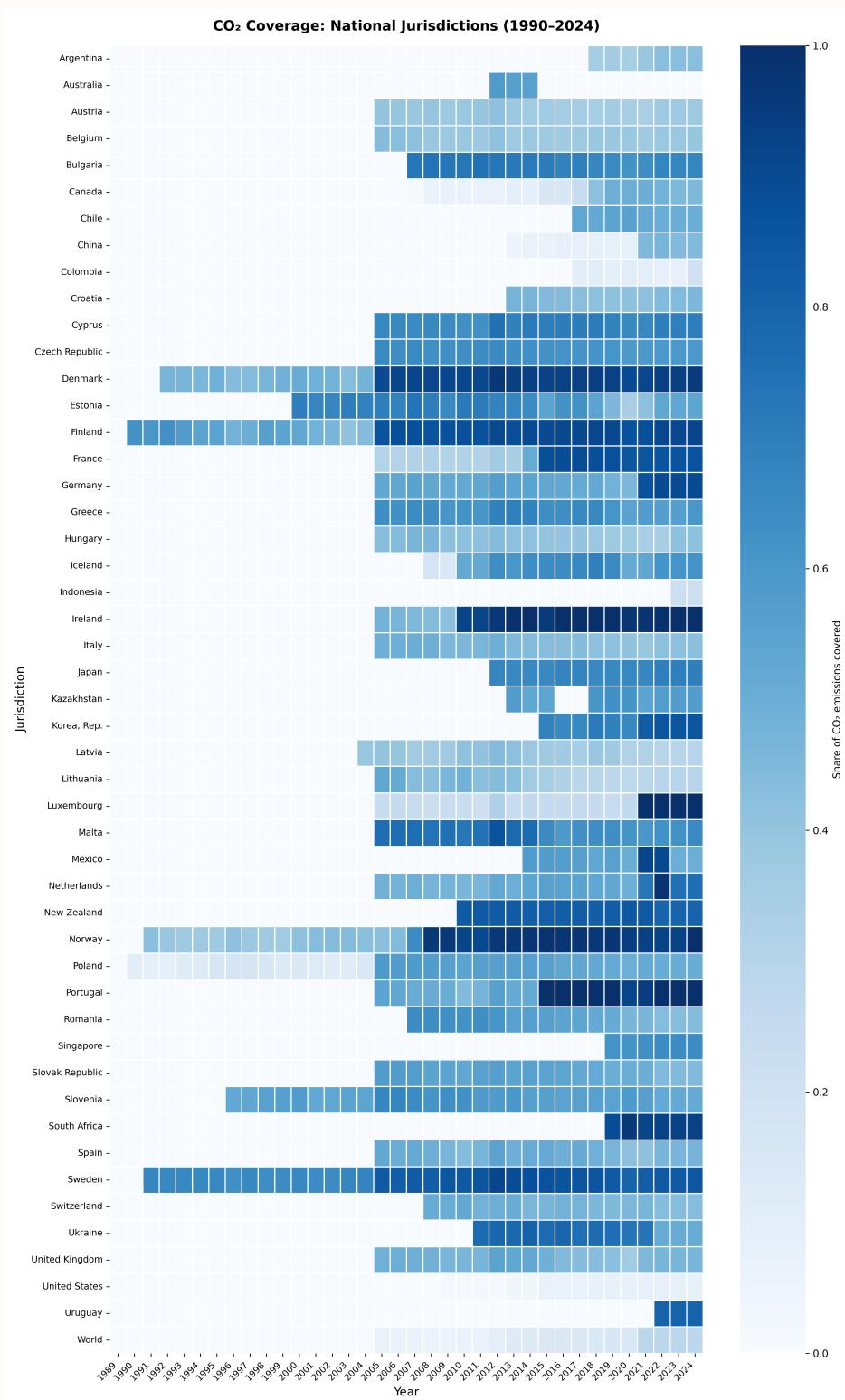


Figure 1: Carbon pricing CO<sub>2</sub> coverage — Countries, 1990–2024

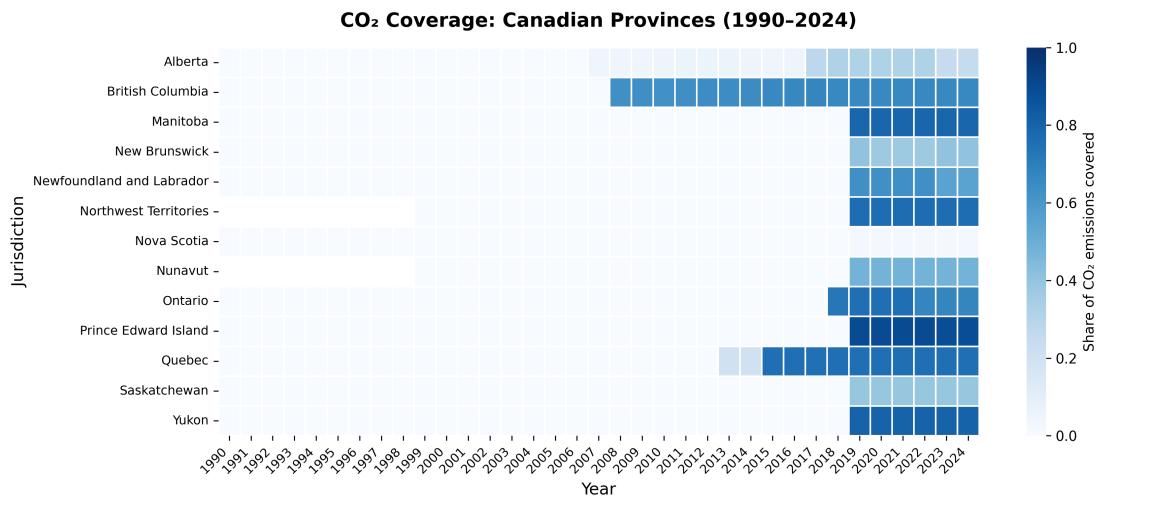


Figure 2: Carbon pricing CO<sub>2</sub> coverage — Canadian provinces, 1990–2024

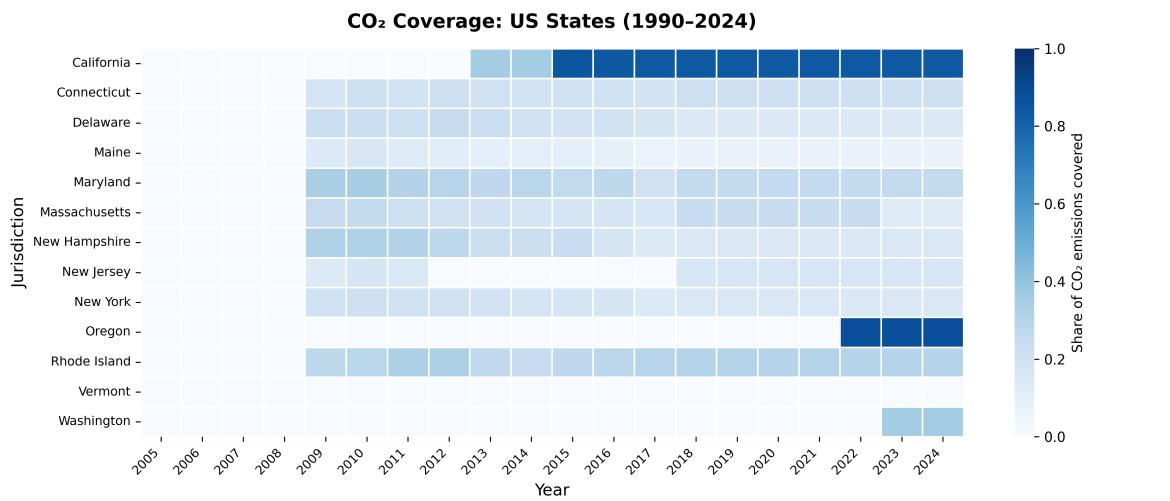


Figure 3: Carbon pricing CO<sub>2</sub> coverage — US States, 1990–2024

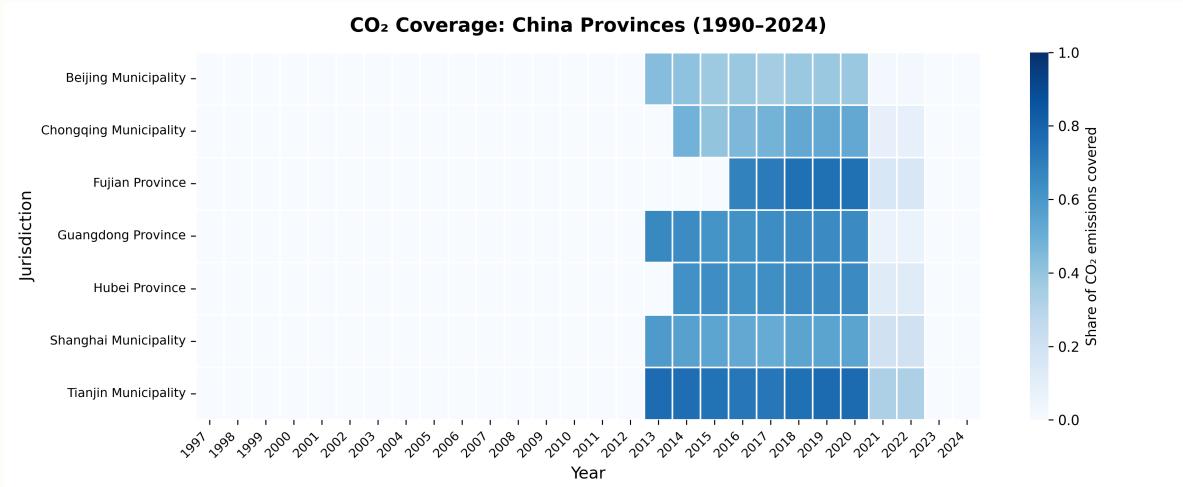


Figure 4: Carbon pricing CO<sub>2</sub> coverage — Chinese provinces, 1990–2024

## 1.2 Prices

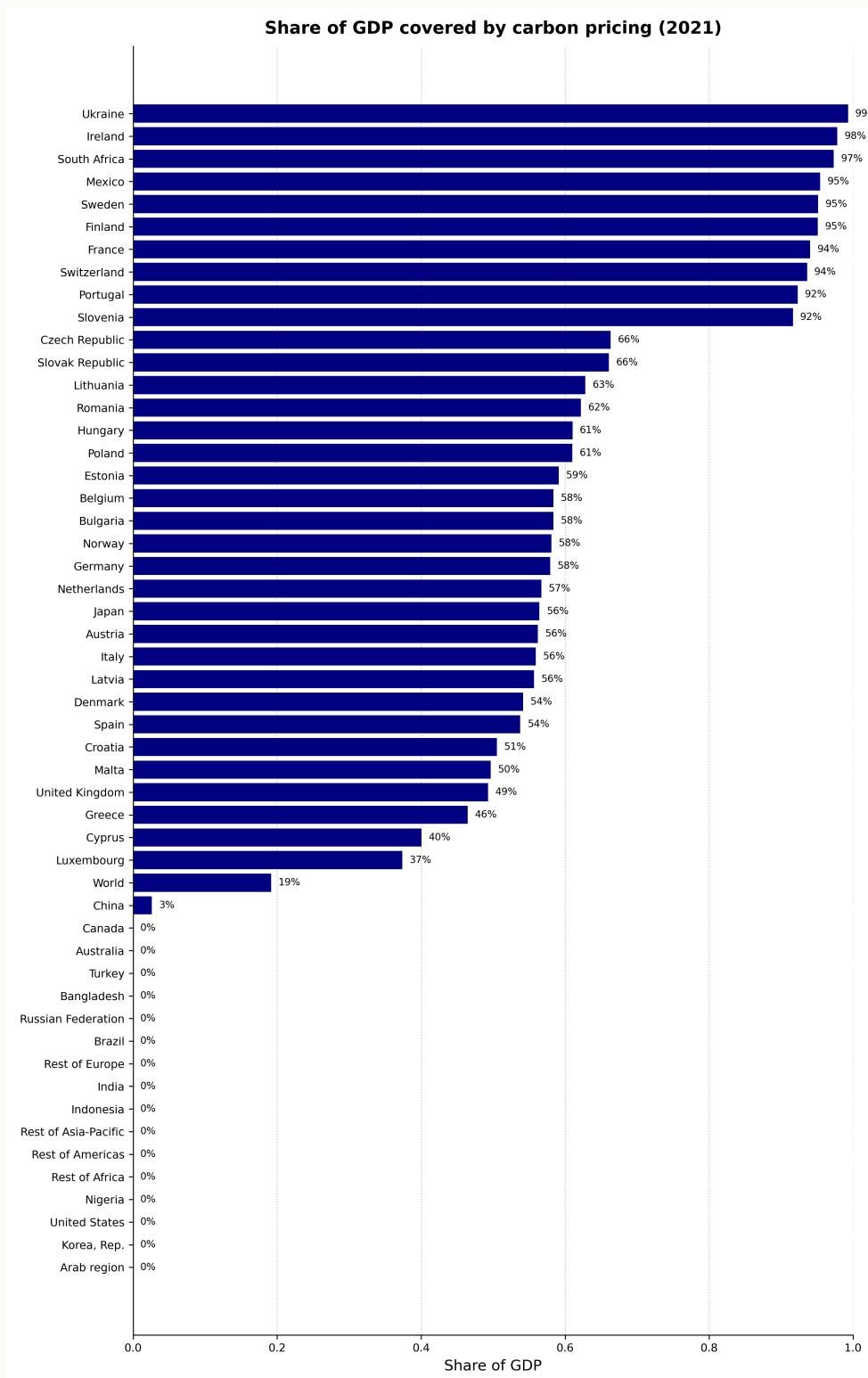


Figure 5: Carbon pricing GDP coverage - countries, 1990–2024

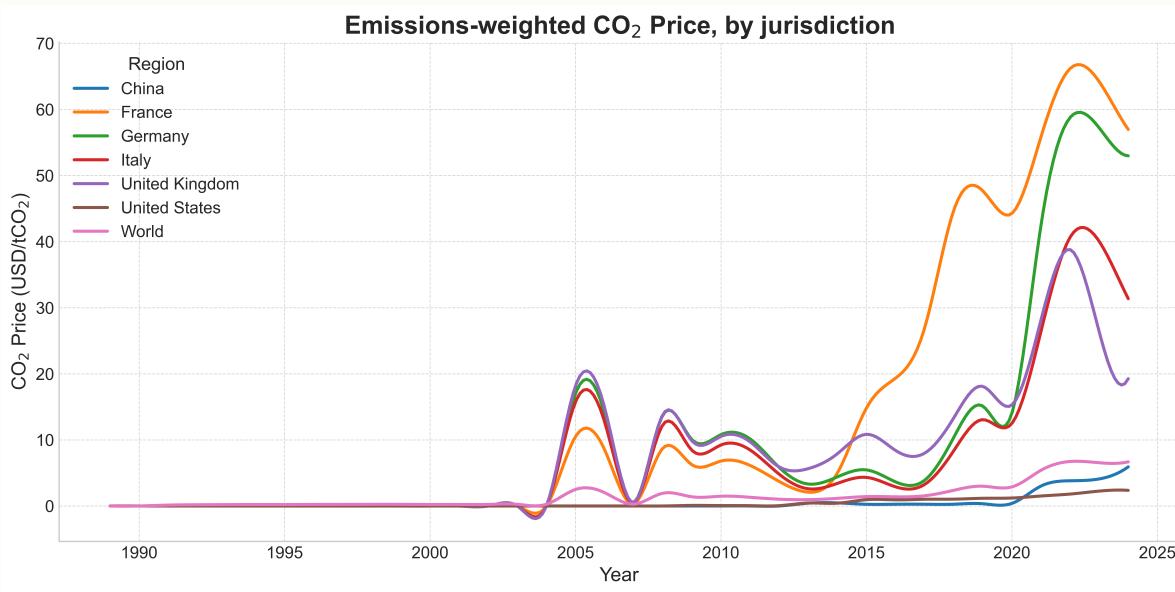


Figure 6: Average carbon price by country, 1990–2024

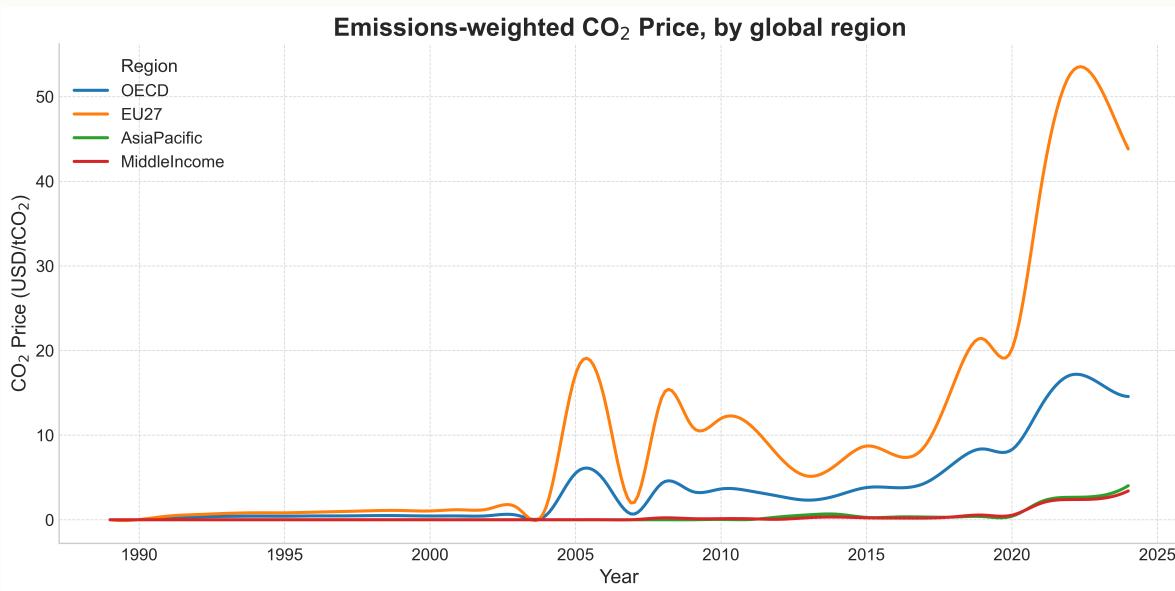


Figure 7: Average carbon price by global region, 1990–2024

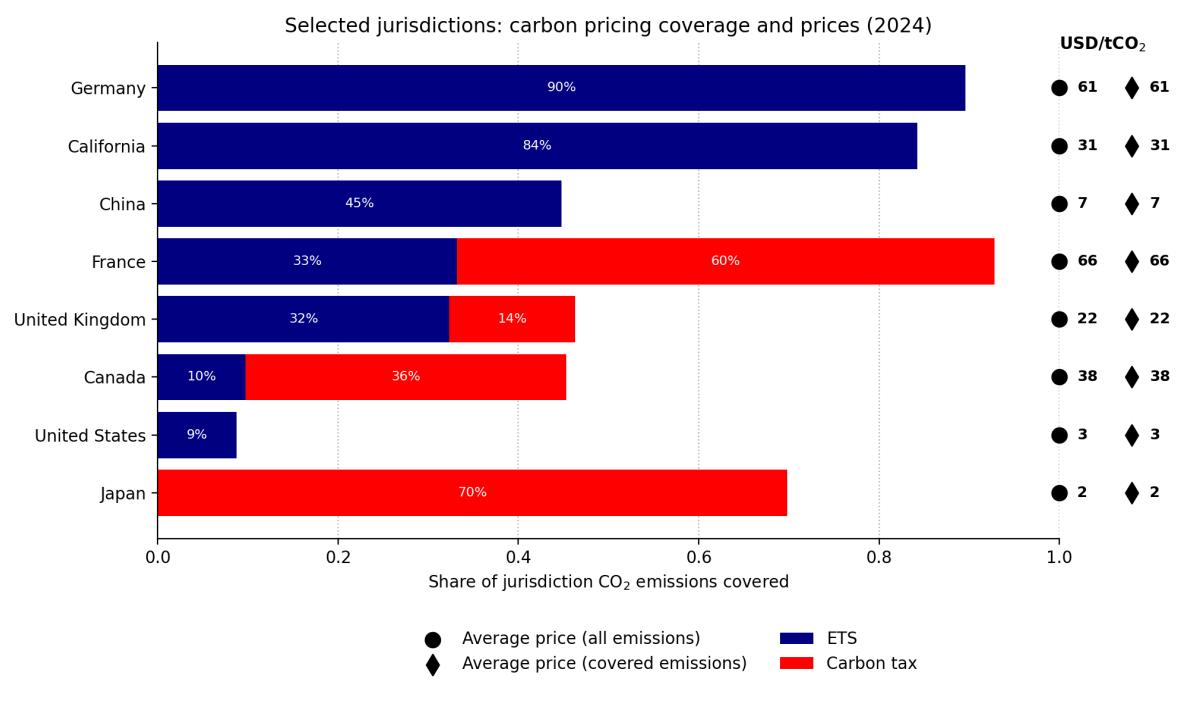


Figure 8: Carbon pricing CO<sub>2</sub> coverage and prices, 2024

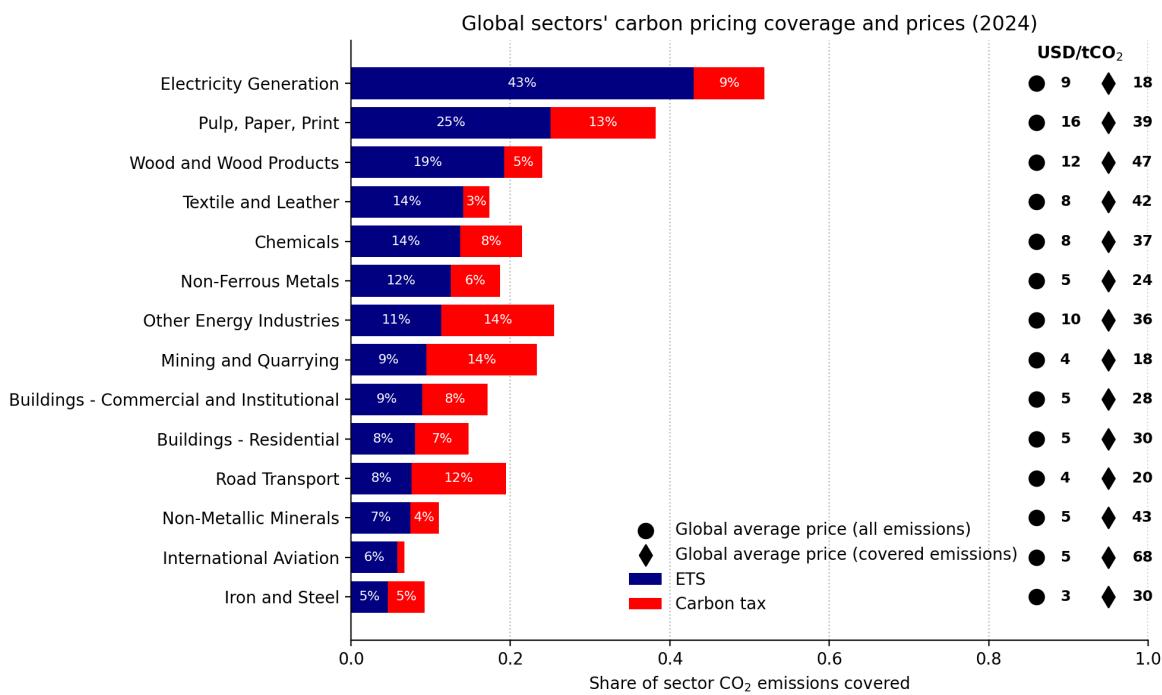


Figure 9: Average carbon prices and CO<sub>2</sub> coverage by world sectors, 2024

### Emissions-weighted Average and Maximum CO<sub>2</sub> Prices by Jurisdiction (2024)

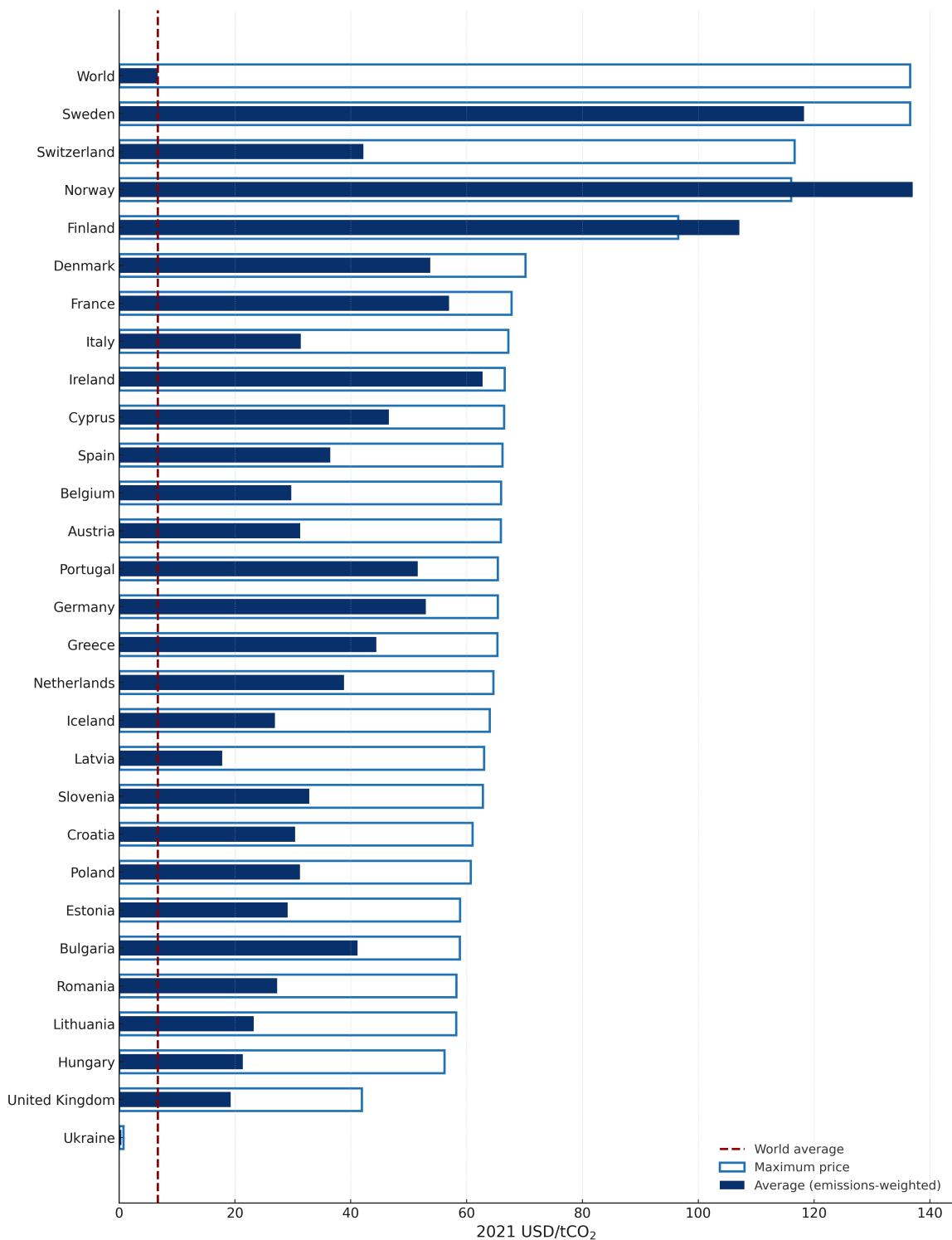


Figure 10: Maximum and average carbon prices, 2024

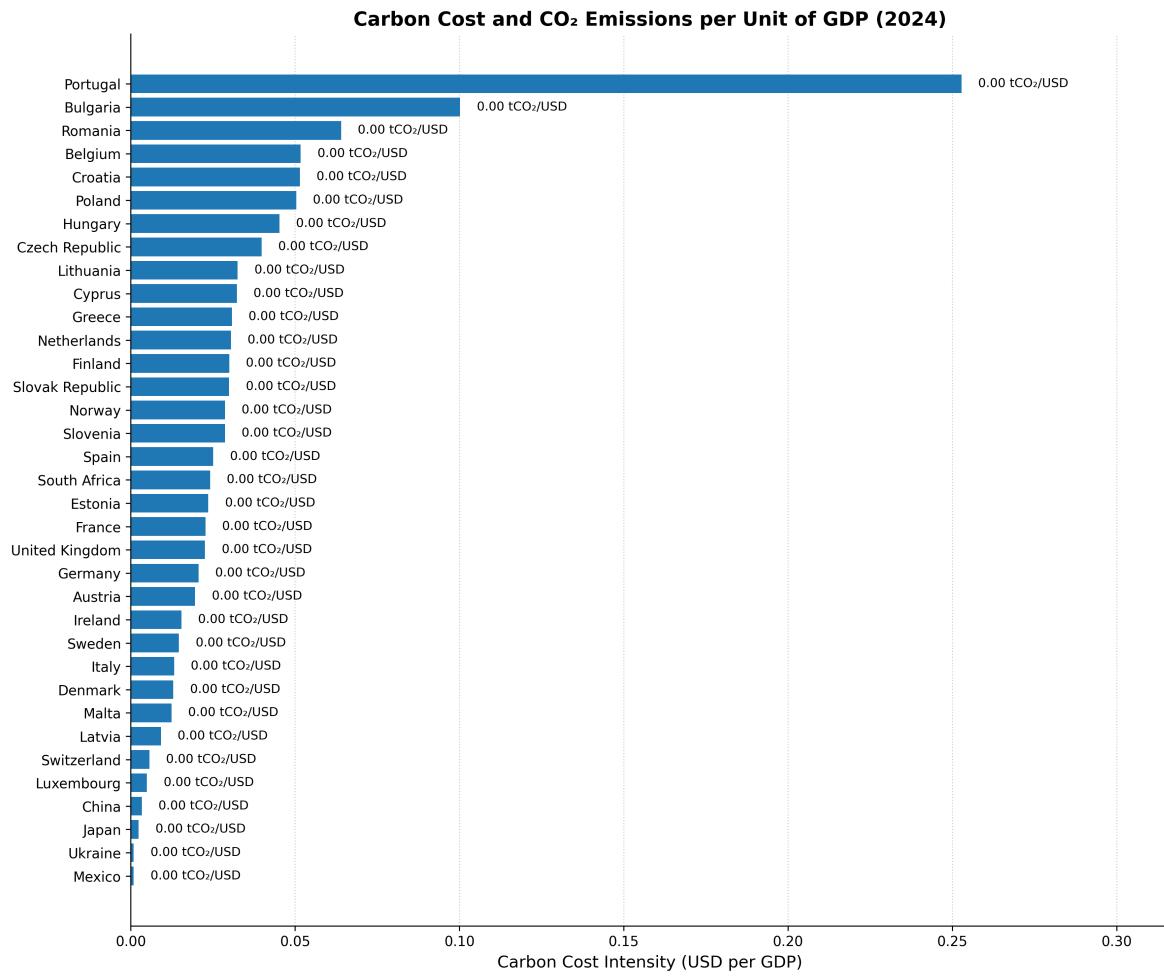


Figure 11: Carbon cost, 2021

## 2 Country Fact Sheets

**Canada (2024):**

Average price = 32.80 USD/tCO<sub>2</sub>

Maximum price = nan USD/tCO<sub>2</sub>

Sectoral coverage (IPCC):

Total coverage (CO<sub>2</sub>) = 0.45

**China (2024):**

Average price = 5.92 USD/tCO<sub>2</sub>

Maximum price = 13.22 USD/tCO<sub>2</sub>

Sectoral coverage (IPCC):

1A1A1, 1A1A2, 1A1A3

Total coverage (CO<sub>2</sub>) = 0.45

**France (2024):**

Average price = 56.97 USD/tCO<sub>2</sub>

Maximum price = 67.74 USD/tCO<sub>2</sub>

Sectoral coverage (IPCC):

1A1A1, 1A1A2, 1A1A3, 1A1B, 1A1C, 1A2A, 1A2B, 1A2C, 1A2D

1A2E, 1A2F, 1A2G, 1A2H, 1A2I, 1A2J, 1A2K, 1A2L, 1A2M

1A3A1, 1A3A2, 1A3B, 1A3D2, 1A4A, 1A4B, 1C1A, 1C2B, 2A1

2A2, 2A3, 2A4A, 2B1, 2B2, 2B3, 2B4, 2B5, 2B6

2B7, 2B8F, 2C1, 2C2, 2C3, 2C4, 2C5, 2C6, 2H1

Total coverage (CO<sub>2</sub>) = 0.87

**Germany (2024):**

Average price = 52.98 USD/tCO<sub>2</sub>

Maximum price = 65.38 USD/tCO<sub>2</sub>

Sectoral coverage (IPCC):

1A1A1, 1A1A2, 1A1A3, 1A1B, 1A1C, 1A2A, 1A2B, 1A2C, 1A2D

1A2E, 1A2F, 1A2G, 1A2H, 1A2I, 1A2J, 1A2K, 1A2L, 1A2M

1A3A1, 1A3A2, 1A3B, 1A3C, 1A3D2, 1A3E1, 1A4A, 1A4B, 1A4C1

1A4C2, 1A4C3, 1A5A, 1A5B, 1C1A, 1C2B, 2A1, 2A2, 2A3

2A4A, 2B1, 2B2, 2B3, 2B4, 2B5, 2B6, 2B7, 2B8F

2C1, 2C2, 2C3, 2C4, 2C5, 2C6, 2H1

Total coverage (CO<sub>2</sub>) = 0.90

**Italy (2024):**

Average price = 31.36 USD/tCO<sub>2</sub>

Maximum price = 67.18 USD/tCO<sub>2</sub>

Sectoral coverage (IPCC):

1A1A1, 1A1A2, 1A1A3, 1A1B, 1A1C, 1A2A, 1A2B, 1A2C, 1A2D  
1A2E, 1A2F, 1A2G, 1A2H, 1A2I, 1A2J, 1A2K, 1A2L, 1A2M  
1A3A1, 1A3A2, 1A3D2, 1C1A, 1C2B, 2A1, 2A2, 2A3, 2A4A  
2B1, 2B2, 2B3, 2B4, 2B5, 2B6, 2B7, 2B8F, 2C1  
2C2, 2C3, 2C4, 2C5, 2C6, 2H1

Total coverage (CO<sub>2</sub>) = 0.42

Japan (2024):

Average price = 1.78 USD/tCO<sub>2</sub>

Maximum price = nan USD/tCO<sub>2</sub>

Sectoral coverage (IPCC):

1A1A1, 1A1A2, 1A1A3, 1A2A, 1A2B, 1A2C, 1A2D, 1A2E, 1A2F  
1A2G, 1A2H, 1A2I, 1A2J, 1A2K, 1A2L, 1A2M, 1A3B

Total coverage (CO<sub>2</sub>) = 0.70

United Kingdom (2024):

Average price = 19.25 USD/tCO<sub>2</sub>

Maximum price = 41.90 USD/tCO<sub>2</sub>

Sectoral coverage (IPCC):

1A1A1, 1A1A2, 1A1A3, 1A1B, 1A1C, 1A2A, 1A2B, 1A2C, 1A2D  
1A2E, 1A2F, 1A2G, 1A2H, 1A2I, 1A2J, 1A2K, 1A2L, 1A2M  
1A3A2, 1C1A, 1C2B, 2A1, 2A2, 2A3, 2A4A, 2B1, 2B2  
2B3, 2B4, 2B5, 2B6, 2B7, 2B8F, 2C1, 2C2, 2C3  
2C4, 2C5, 2C6, 2H1

Total coverage (CO<sub>2</sub>) = 0.46

United States (2024):

Average price = 2.37 USD/tCO<sub>2</sub>

Maximum price = nan USD/tCO<sub>2</sub>

Sectoral coverage (IPCC):

Total coverage (CO<sub>2</sub>) = 0.09