

World Carbon Pricing Database Report

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Report version

July 2025.

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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

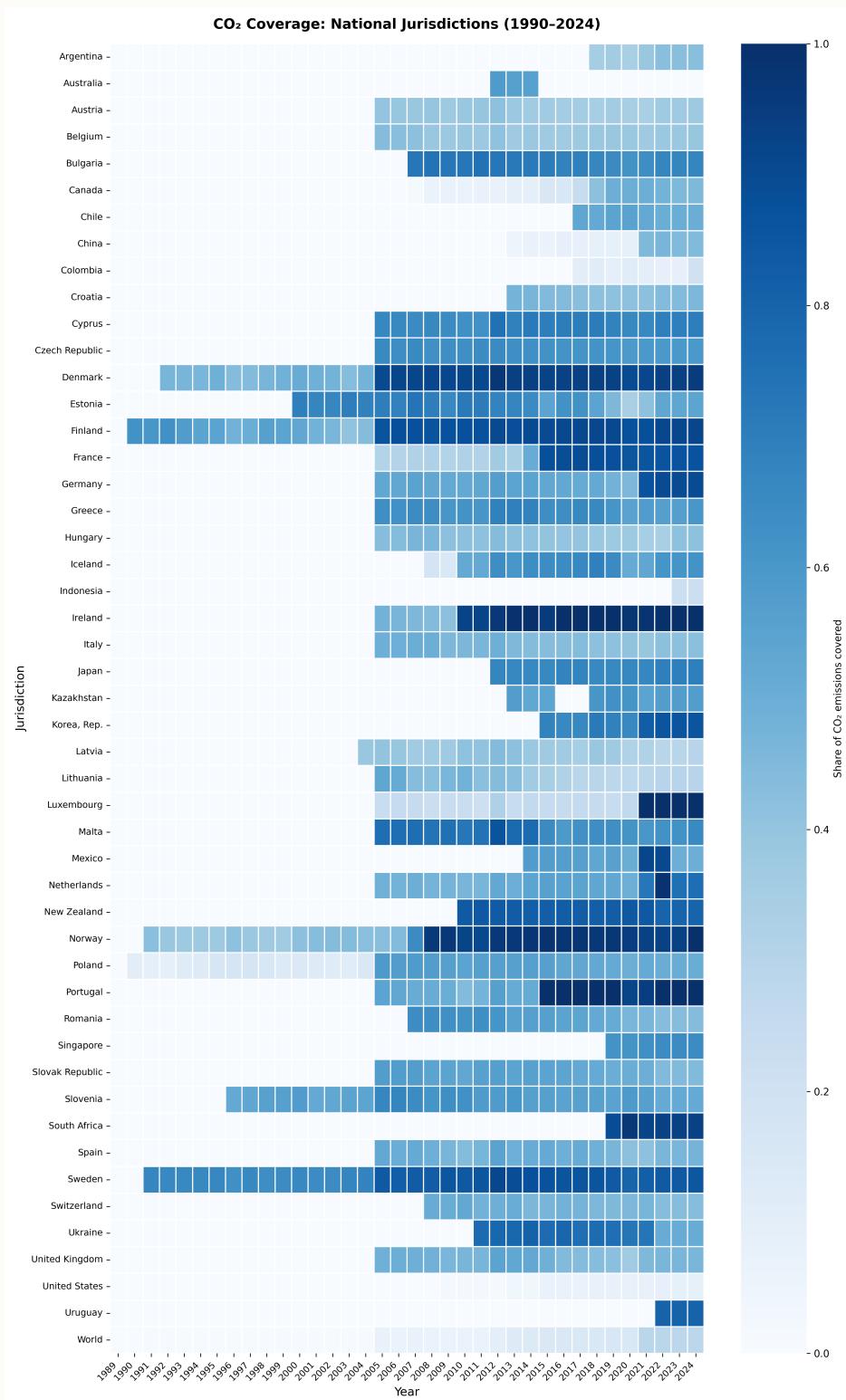


Figure 1: Carbon pricing CO₂ coverage — Countries, 1990–2024

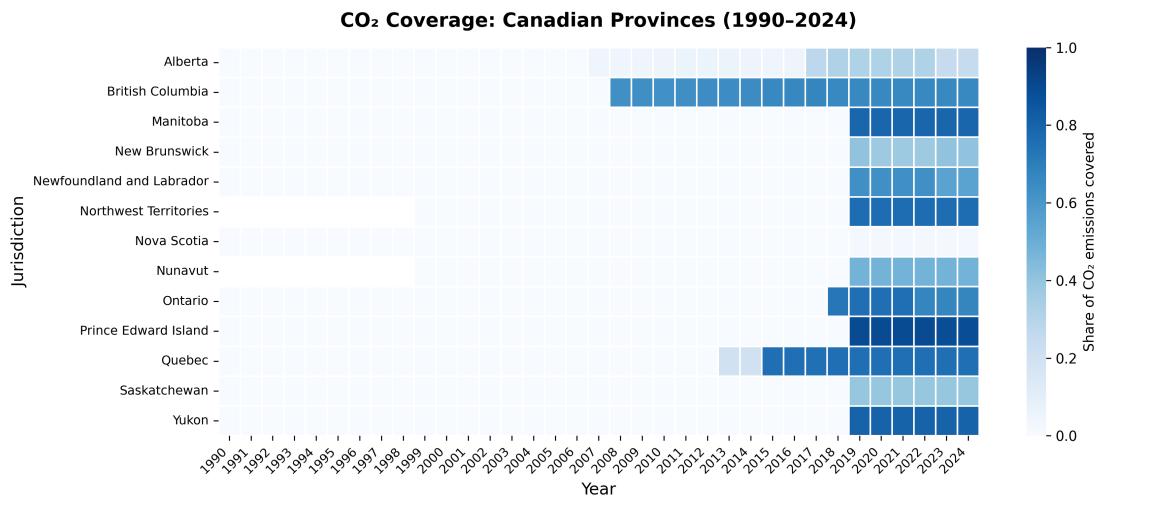


Figure 2: Carbon pricing CO₂ coverage — Canadian provinces, 1990–2024

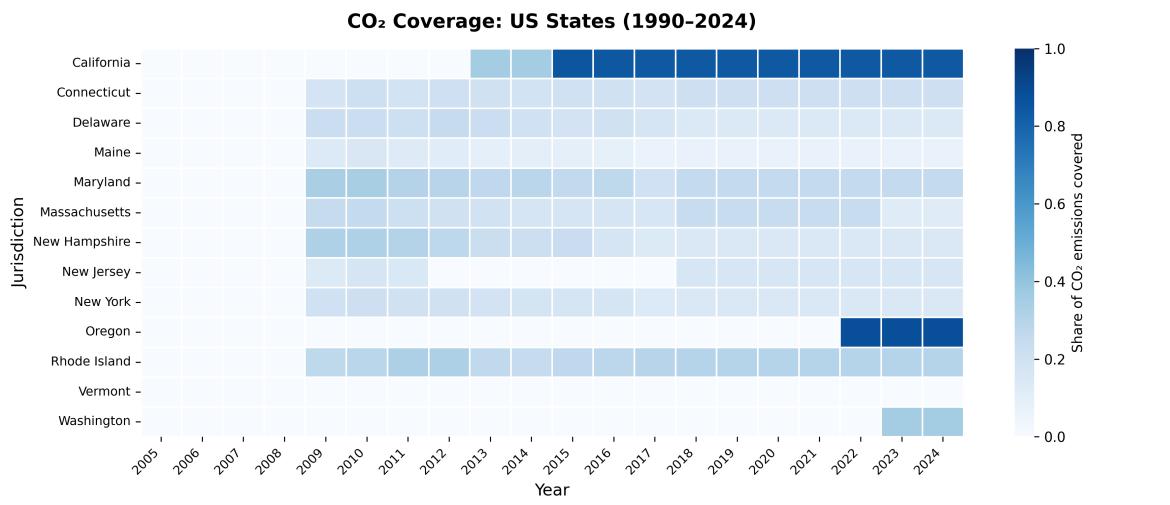


Figure 3: Carbon pricing CO₂ coverage — US States, 1990–2024

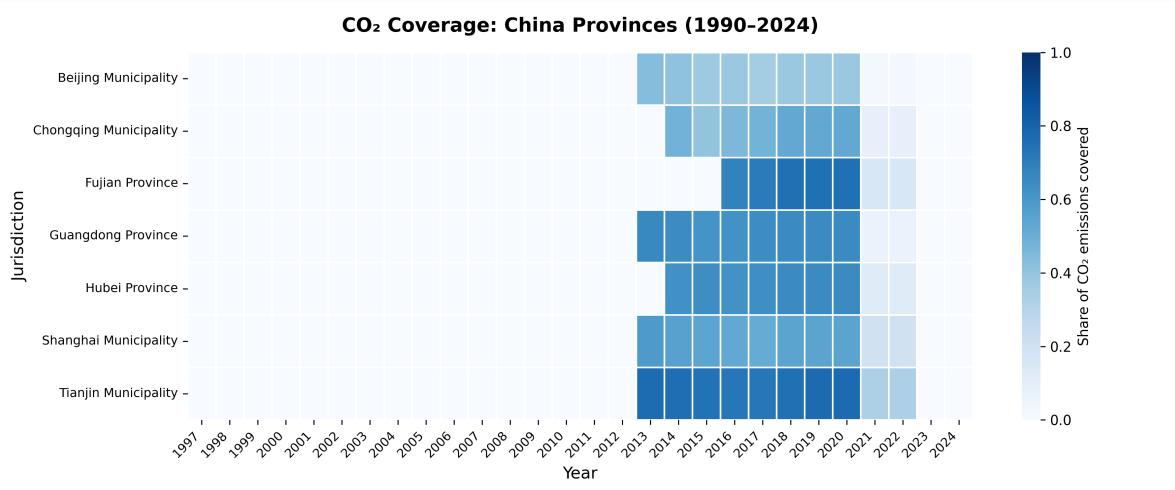


Figure 4: Carbon pricing CO₂ coverage — Chinese provinces, 1990–2024

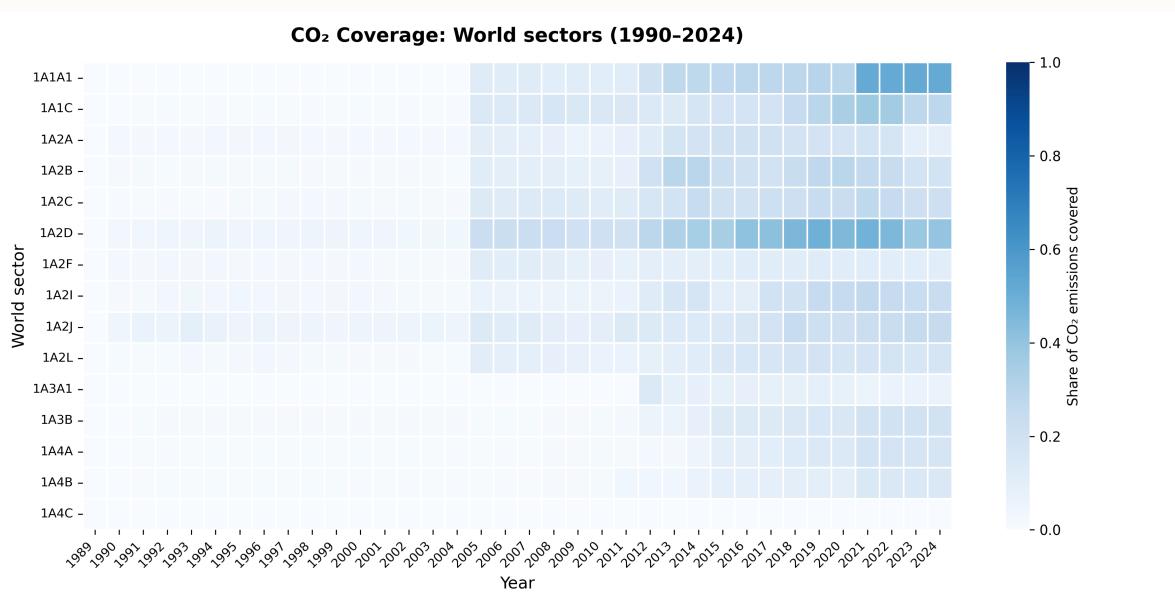


Figure 5: Carbon pricing CO₂ coverage — World sectors, 1990–2024



1.1 Coverage

1.1.1 CO₂

1.1.2 GDP

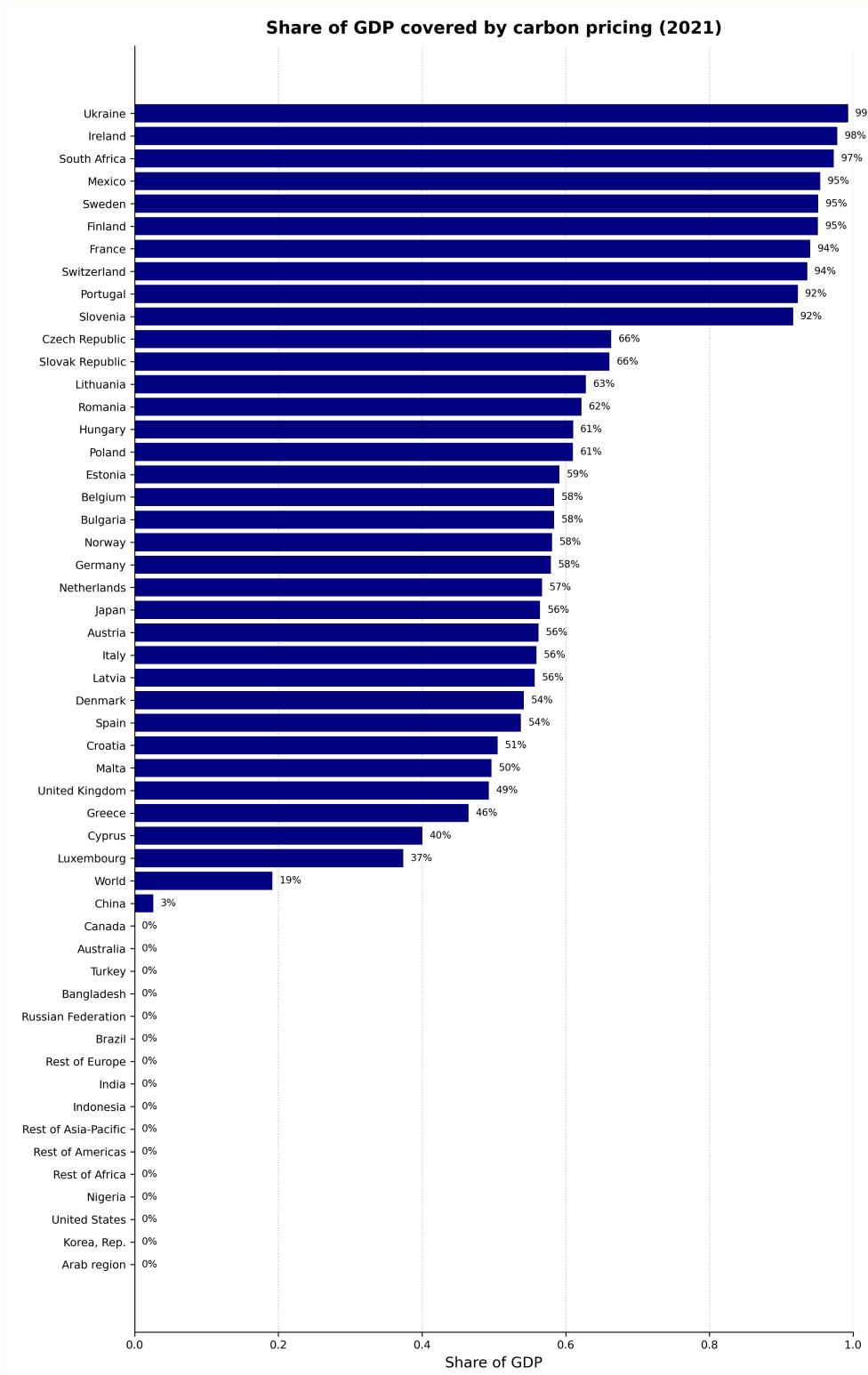


Figure 6: Carbon pricing GDP coverage - countries, 1990–2024

1.2 Prices

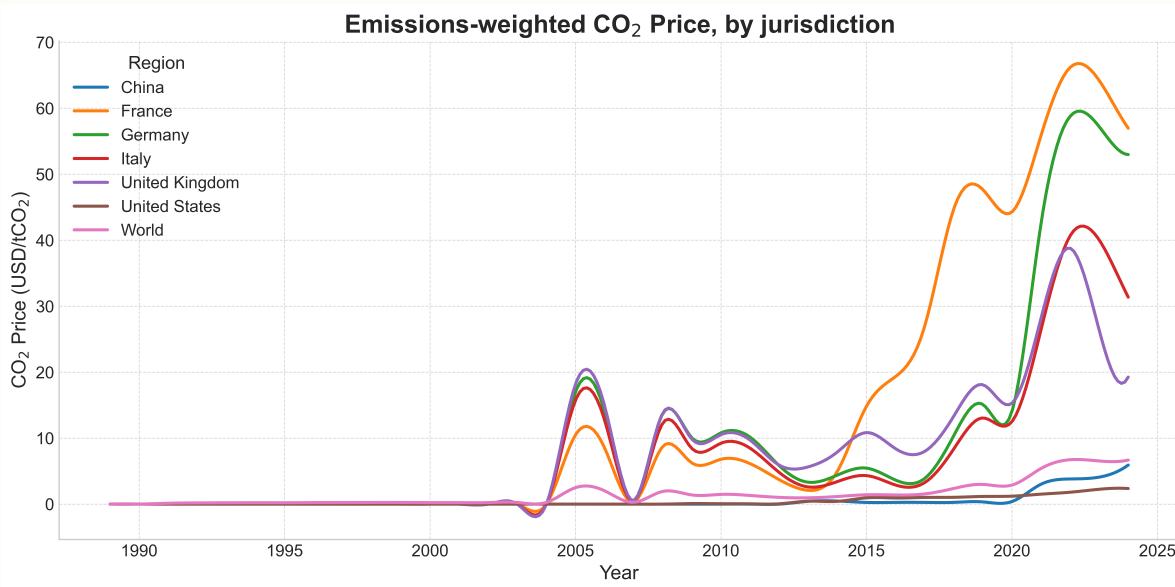


Figure 7: Average carbon price by country, 1990–2024

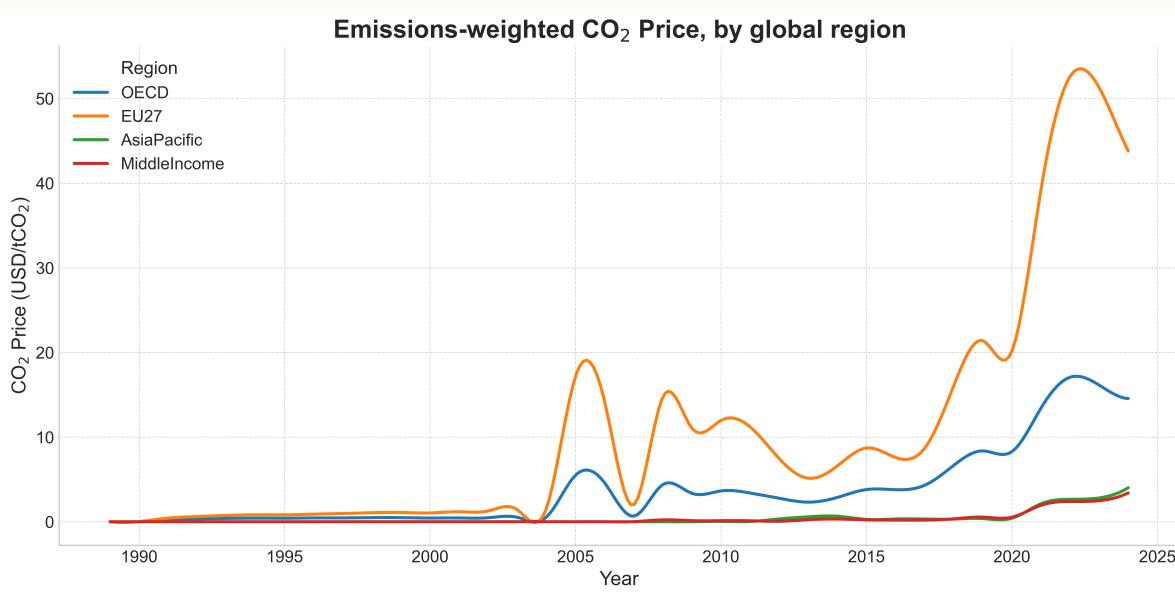


Figure 8: Average carbon price by global region, 1990–2024

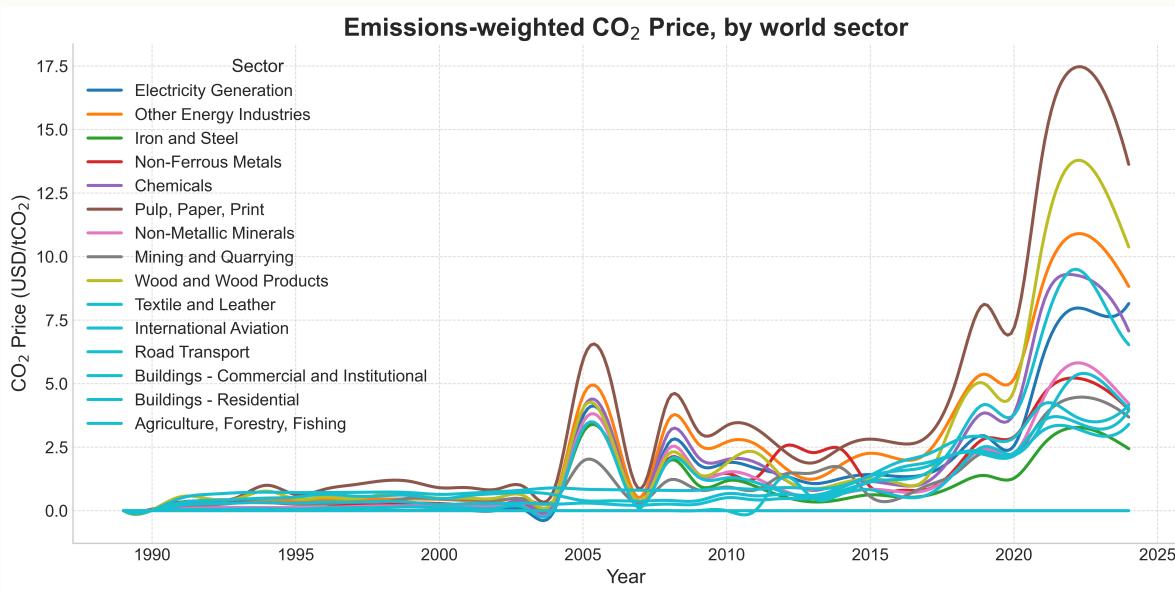


Figure 9: Average carbon price by global sector, 1990–2024

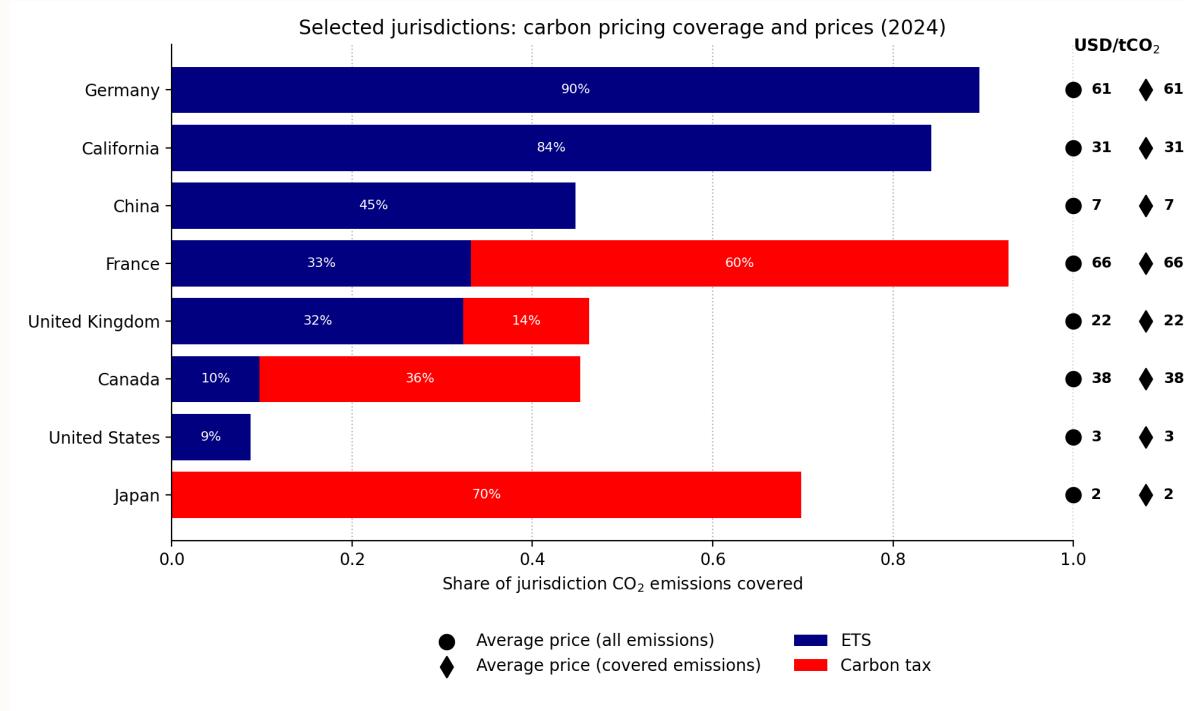


Figure 10: Carbon pricing CO₂ coverage and prices, 2024

1.3 Carbon cost

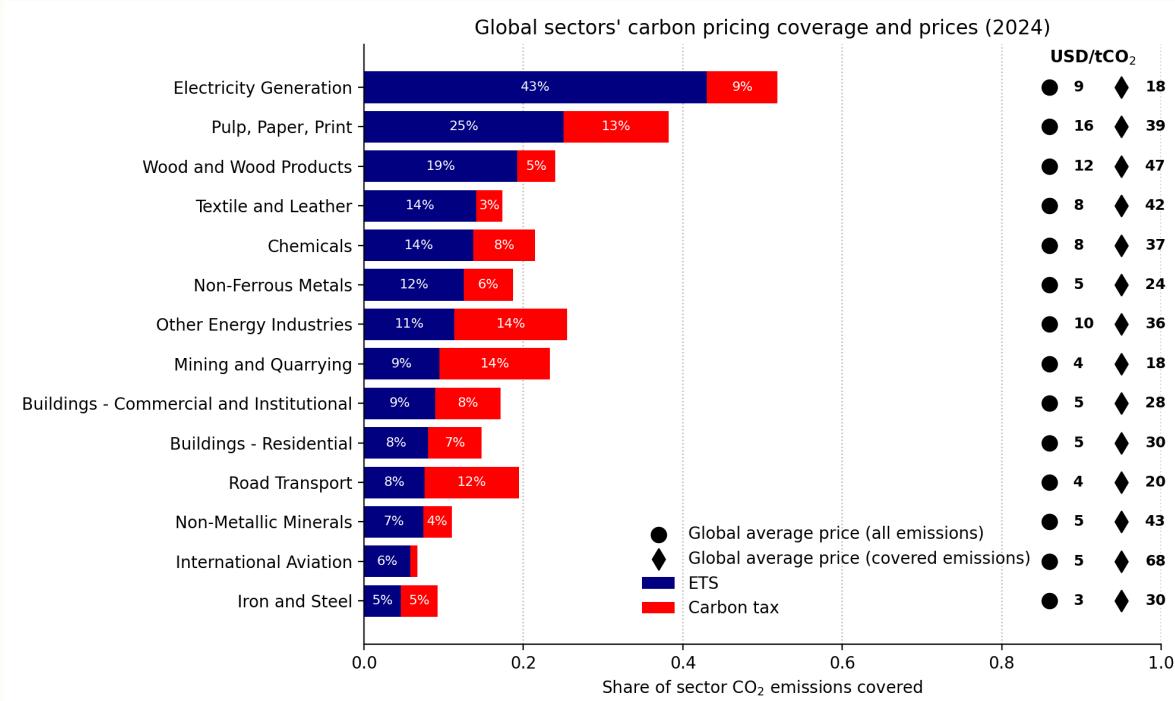


Figure 11: Average carbon prices and CO₂ coverage by world sectors, 2024

2 Country Fact Sheets

Canada (2024):

Average price = 32.80 USD/tCO₂

Maximum price = nan USD/tCO₂

Sectoral coverage (IPCC):

Total coverage (CO₂) = 0.45

China (2024):

Average price = 5.92 USD/tCO₂

Maximum price = 13.22 USD/tCO₂

Sectoral coverage (IPCC):

1A1A1, 1A1A2, 1A1A3

Total coverage (CO₂) = 0.45

France (2024):

Average price = 56.97 USD/tCO₂

Maximum price = 67.74 USD/tCO₂

Emissions-weighted Average and Maximum CO₂ Prices by Jurisdiction (2024)

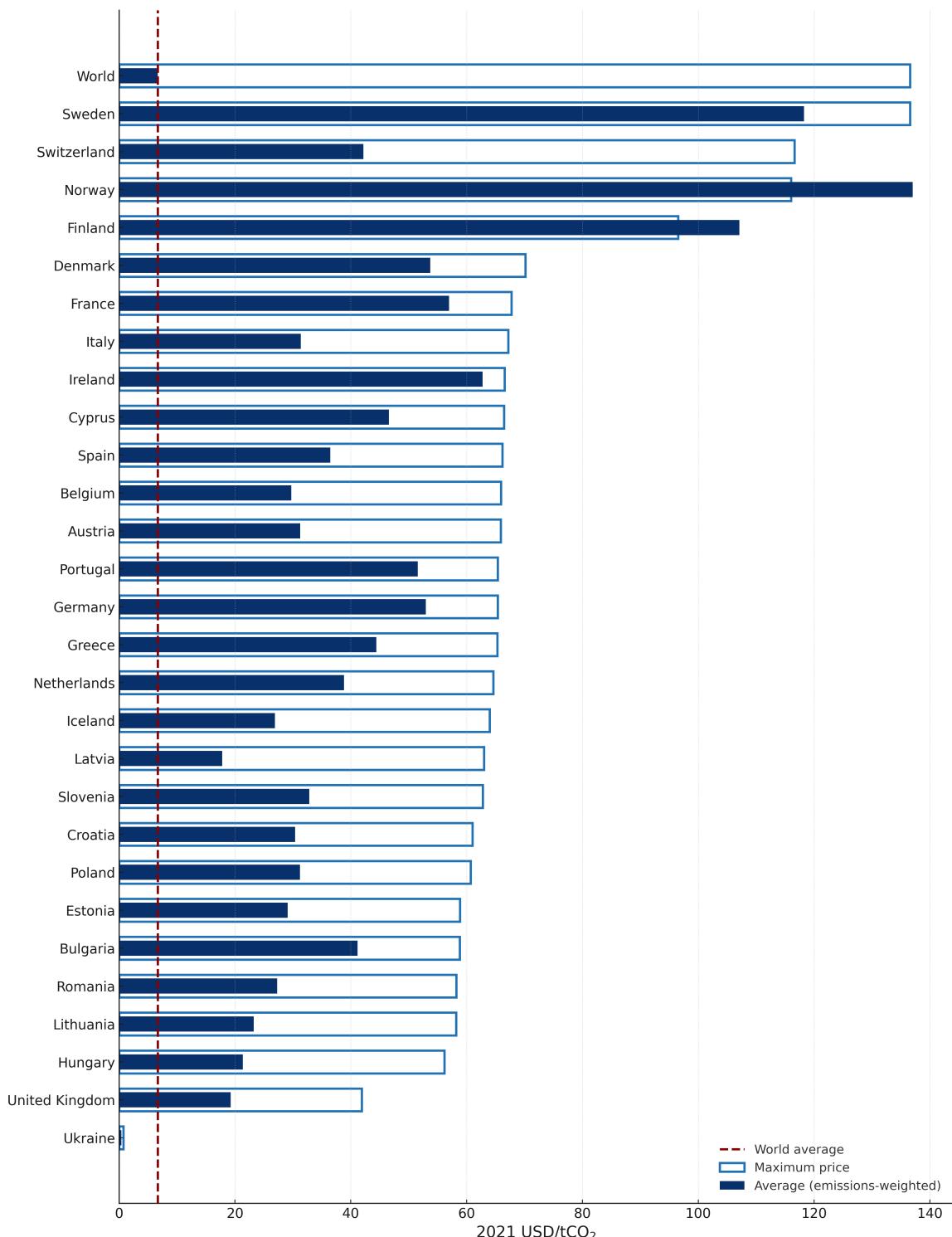
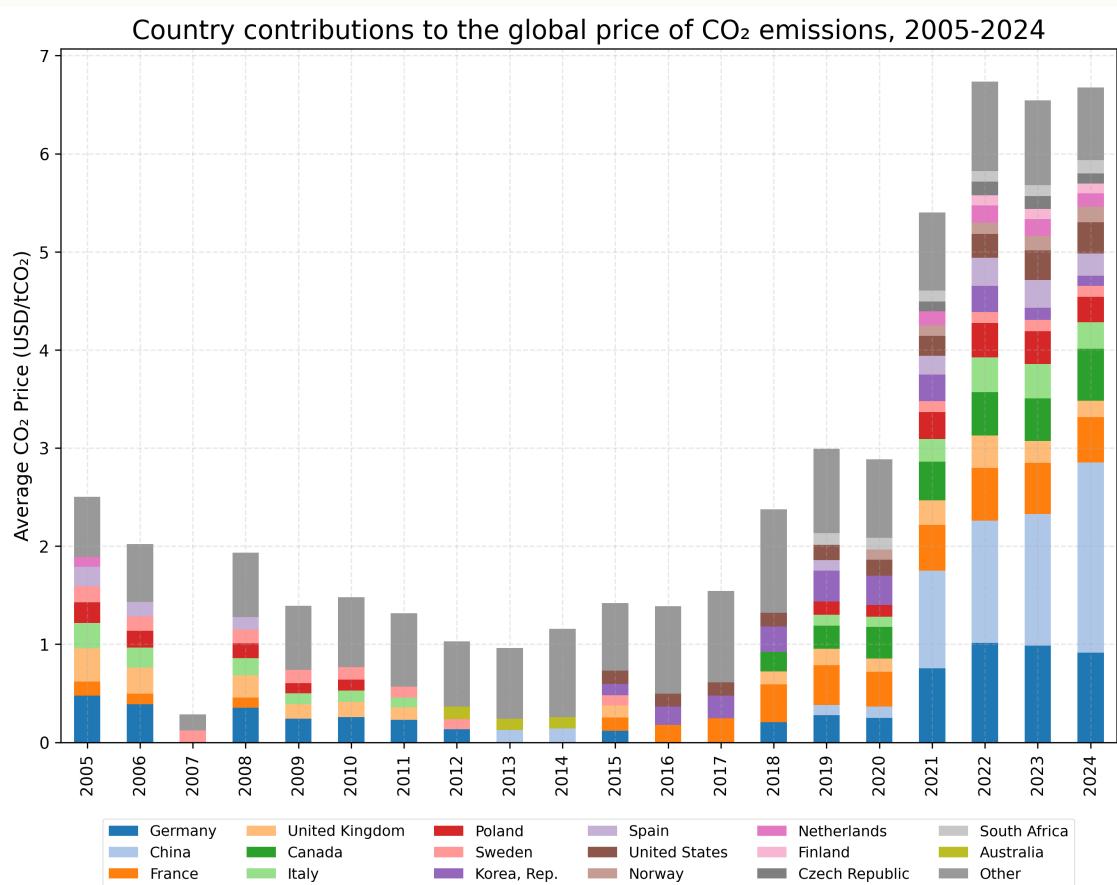


Figure 12: Maximum and average carbon prices, 2024



Note: This chart shows the contribution of each country to the global average price of CO₂ (stacked bottom to top by contribution). Values reflect national and subnational carbon pricing mechanisms, except subnational mechanisms in Mexico and Japan. Prices are expressed in 2021 USD. National prices are weighted by their share of global emissions. For readability, the category 'Other' collects countries that contributed < USD 0.1/tCO₂ to the global average in any year.

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Figure 13: Contribution of countries to global CO₂ price, 1990-2024

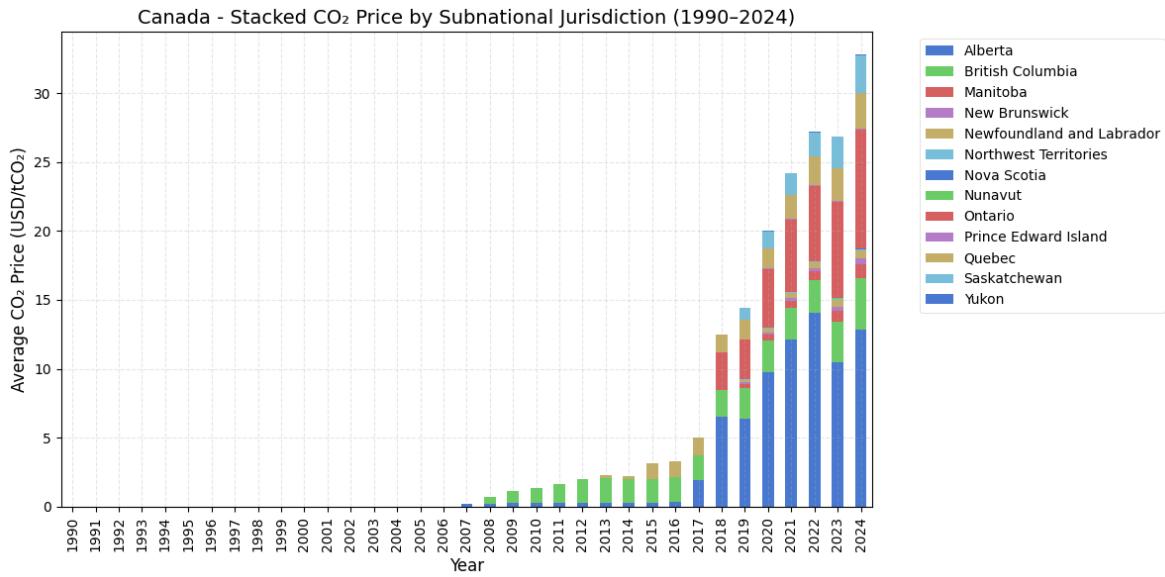


Figure 14: Contribution of subnational jurisdictions to national average, Canada, 1990-2024

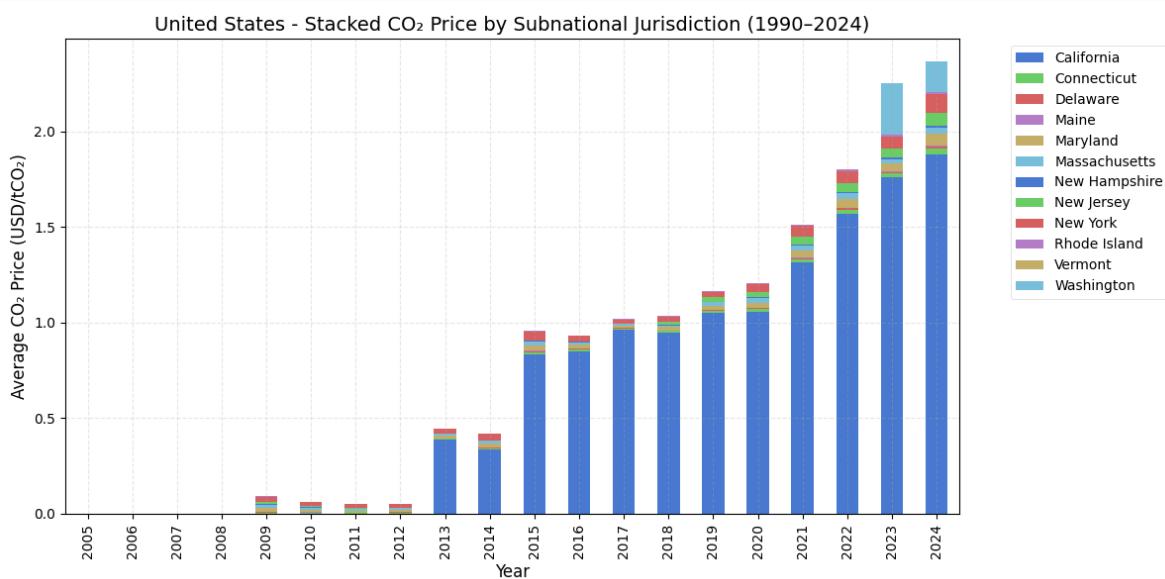


Figure 15: Contribution of subnational jurisdictions to national average, United States, 1990-2024

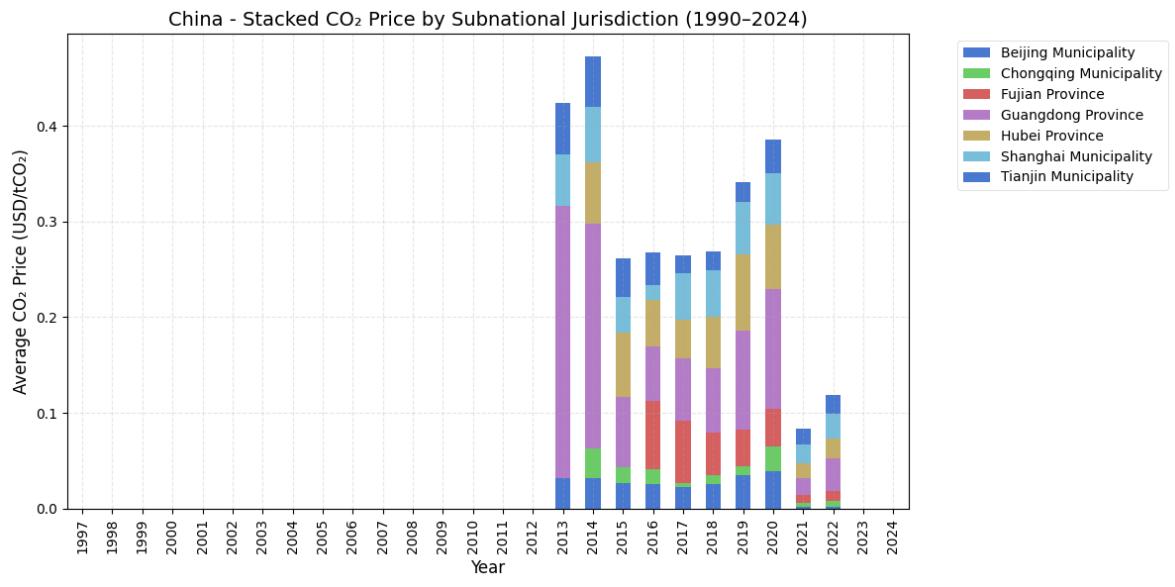


Figure 16: Contribution of subnational jurisdictions to national average, China, 1990–2024

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 (CO₂) = 0.87

Germany (2024):

Average price = 52.98 USD/tCO₂

Maximum price = 65.38 USD/tCO₂

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 (CO₂) = 0.90

Italy (2024):

Average price = 31.36 USD/tCO₂

Maximum price = 67.18 USD/tCO₂

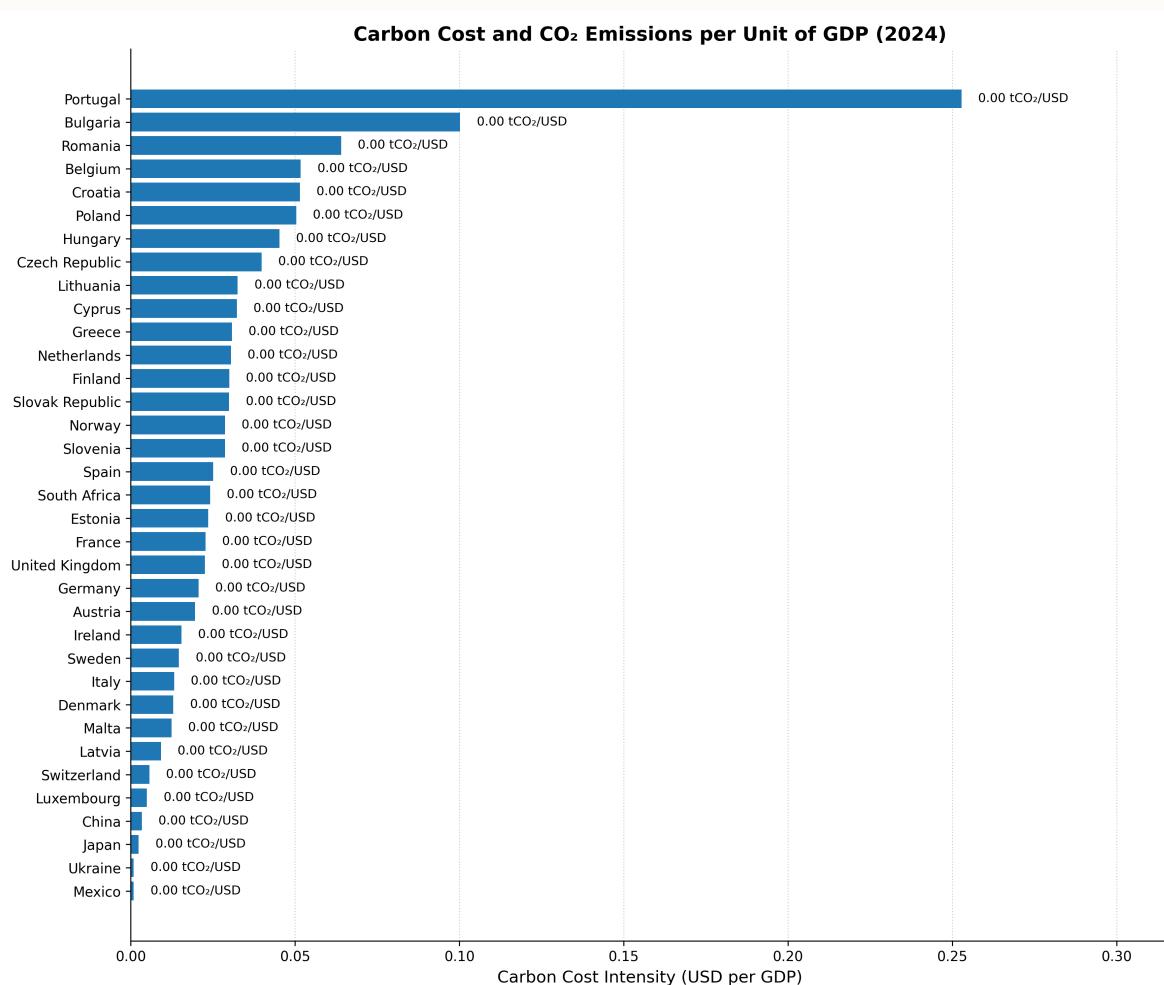


Figure 17: Carbon cost, 2021

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 (CO₂) = 0.42

Japan (2024):

Average price = 1.78 USD/tCO₂

Maximum price = nan USD/tCO₂

Sectoral coverage (IPCC):

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

Total coverage (CO₂) = 0.70

United Kingdom (2024):

Average price = 19.25 USD/tCO₂

Maximum price = 41.90 USD/tCO₂

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 (CO₂) = 0.46

United States (2024):

Average price = 2.37 USD/tCO₂

Maximum price = nan USD/tCO₂

Sectoral coverage (IPCC):

Total coverage (CO₂) = 0.09