

Table J1. World carbon dioxide intensity of energy use by region, Reference case

metric tons per billion British thermal units

Region	2020	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2020–2050
OECD								
OECD Americas	47.8	46.3	45.6	44.7	44.3	43.9	43.5	-0.3
United States	49.0	46.9	46.4	45.4	45.0	44.6	44.1	-0.3
Canada	37.3	38.6	37.1	36.7	37.1	37.3	37.4	0.0
Mexico and other OECD Americas	52.1	52.1	50.2	49.2	48.4	47.2	45.9	-0.4
OECD Europe	46.3	45.5	43.3	41.6	40.6	39.7	39.0	-0.6
OECD Asia	60.6	57.4	55.9	54.9	53.8	51.7	50.1	-0.6
Japan	59.5	59.2	57.5	57.1	56.1	53.2	50.2	-0.6
South Korea	63.2	58.2	57.9	57.0	56.5	55.3	55.0	-0.5
Australia and New Zealand	59.0	51.8	48.8	47.0	45.3	43.8	43.0	-1.1
Total OECD	49.4	47.8	46.5	45.3	44.6	43.7	43.0	-0.5
Non-OECD								
Non-OECD Europe and Eurasia	55.7	54.8	54.2	54.1	53.7	53.4	53.2	-0.2
Russia	54.0	53.7	53.5	53.5	53.2	53.0	52.8	-0.1
Other Europe and Eurasia	58.8	56.9	55.8	55.2	54.6	54.2	53.9	-0.3
Non-OECD Asia	67.4	63.5	59.9	57.8	55.9	54.3	52.6	-0.8
China	69.8	65.4	61.6	59.2	56.8	54.6	53.3	-0.9
India	67.8	61.8	56.2	54.9	53.8	52.2	48.5	-1.1
Other Asia	58.6	58.9	58.3	57.2	56.0	56.4	56.5	-0.1
Middle East	57.7	56.4	54.6	52.3	50.8	50.5	50.3	-0.5
Africa	54.7	53.4	51.5	50.3	48.2	46.0	44.5	-0.7
Non-OECD Americas	40.0	41.1	39.7	39.2	38.9	38.6	38.1	-0.2
Brazil	33.8	35.5	34.2	33.1	32.0	31.9	31.6	-0.2
Other Non-OECD Americas	47.3	47.8	46.2	46.1	46.4	45.7	44.5	-0.2
Total Non-OECD	62.0	59.4	56.7	55.0	53.4	52.2	50.8	-0.7
Total World	57.1	55.1	53.1	51.7	50.5	49.5	48.3	-0.6

Sources: Table by the U.S. Energy Information Administration (EIA), based on the Oxford Global Economic Model, (February 2021), www.oxfordeconomics.com (subscription site); EIA, World Energy Projection System (2021), run r_210719.163829; and EIA, *Annual Energy Outlook 2021*, (February 2021), www.eia.gov/aeo

Notes:

* Totals may not equal sum of components due to independent rounding.