

**Table A10. World carbon dioxide emissions by region, Reference case, 2015-50**

million metric tons carbon dioxide

Region	2015	2020	2025	2030	2035	2040	2045	2050	Average annual percent change (2015-50)
<b>OECD</b>									
<b>OECD Americas</b>	<b>6,342</b>	<b>6,341</b>	<b>6,175</b>	<b>5,967</b>	<b>5,970</b>	<b>6,074</b>	<b>6,217</b>	<b>6,385</b>	<b>0.0</b>
United States /a	5,248	5,260	5,057	4,839	4,816	4,867	4,957	5,073	-0.1
Canada	590	587	601	596	608	626	649	672	0.4
Mexico and Chile	504	494	518	532	547	581	611	640	0.7
<b>OECD Europe</b>	<b>3,858</b>	<b>3,923</b>	<b>3,814</b>	<b>3,798</b>	<b>3,903</b>	<b>3,988</b>	<b>4,097</b>	<b>4,261</b>	<b>0.3</b>
<b>OECD Asia</b>	<b>2,234</b>	<b>2,186</b>	<b>2,209</b>	<b>2,243</b>	<b>2,284</b>	<b>2,333</b>	<b>2,389</b>	<b>2,466</b>	<b>0.3</b>
Japan	1,154	1,073	1,058	1,038	1,014	987	961	945	-0.6
South Korea	663	702	721	751	791	835	881	930	1.0
Australia and New Zealand	417	411	430	454	479	510	547	592	1.0
<b>Total OECD</b>	<b>12,433</b>	<b>12,450</b>	<b>12,198</b>	<b>12,008</b>	<b>12,157</b>	<b>12,395</b>	<b>12,703</b>	<b>13,111</b>	<b>0.2</b>
<b>Non-OECD</b>									
<b>Non-OECD Europe and Eurasia</b>	<b>2,692</b>	<b>2,630</b>	<b>2,583</b>	<b>2,570</b>	<b>2,617</b>	<b>2,625</b>	<b>2,600</b>	<b>2,574</b>	<b>-0.1</b>
Russia	1,676	1,610	1,583	1,587	1,616	1,615	1,582	1,541	-0.2
Other	1,016	1,021	999	983	1,001	1,010	1,018	1,033	0.0
<b>Non-OECD Asia</b>	<b>14,294</b>	<b>15,168</b>	<b>16,050</b>	<b>16,589</b>	<b>17,384</b>	<b>18,286</b>	<b>19,226</b>	<b>20,057</b>	<b>1.0</b>
China	9,924	10,205	10,464	10,422	10,298	10,161	10,018	9,793	0.0
India	2,002	2,305	2,552	2,884	3,389	3,959	4,545	5,043	2.7
Other	2,368	2,657	3,034	3,284	3,697	4,165	4,664	5,221	2.3
<b>Middle East</b>	<b>1,959</b>	<b>2,085</b>	<b>2,192</b>	<b>2,316</b>	<b>2,495</b>	<b>2,692</b>	<b>2,923</b>	<b>3,117</b>	<b>1.3</b>
<b>Africa</b>	<b>1,251</b>	<b>1,370</b>	<b>1,444</b>	<b>1,506</b>	<b>1,592</b>	<b>1,740</b>	<b>1,906</b>	<b>2,100</b>	<b>1.5</b>
<b>Non-OECD Americas</b>	<b>1,272</b>	<b>1,270</b>	<b>1,355</b>	<b>1,410</b>	<b>1,473</b>	<b>1,581</b>	<b>1,694</b>	<b>1,812</b>	<b>1.0</b>
Brazil	482	470	514	540	561	596	633	668	0.9
Other	790	800	841	869	912	985	1,061	1,143	1.1
<b>Total Non-OECD</b>	<b>21,469</b>	<b>22,523</b>	<b>23,624</b>	<b>24,390</b>	<b>25,561</b>	<b>26,923</b>	<b>28,349</b>	<b>29,660</b>	<b>0.9</b>
<b>Total World</b>	<b>33,902</b>	<b>34,972</b>	<b>35,823</b>	<b>36,398</b>	<b>37,718</b>	<b>39,318</b>	<b>41,052</b>	<b>42,771</b>	<b>0.7</b>

a/ Includes the 50 states and the District of Columbia.

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2017), run IEO2017\_d2017.08.23\_153156 and EIA, EIA, *Annual Energy Outlook 2017*, DOE/EIA-0383(2017) (Washington, DC: January 2017); AEO2017 National Energy Modeling System, run ref2017.d120816a, www.eia.gov/aeo.