

**Table A12. World carbon dioxide emissions from natural gas use 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>1,845</b>	<b>1,853</b>	<b>1,939</b>	<b>2,032</b>	<b>2,115</b>	<b>2,223</b>	<b>2,331</b>	<b>2,443</b>	<b>0.8</b>
United States /a	1,471	1,464	1,512	1,577	1,644	1,711	1,781	1,858	0.7
Canada	225	235	258	277	290	312	331	349	1.3
Mexico and Chile	149	154	170	177	182	200	219	236	1.3
<b>OECD Europe</b>	<b>916</b>	<b>945</b>	<b>953</b>	<b>985</b>	<b>1,105</b>	<b>1,206</b>	<b>1,329</b>	<b>1,471</b>	<b>1.4</b>
<b>OECD Asia</b>	<b>457</b>	<b>461</b>	<b>478</b>	<b>508</b>	<b>541</b>	<b>577</b>	<b>615</b>	<b>656</b>	<b>1.0</b>
Japan	265	258	261	265	266	265	266	269	0.0
South Korea	103	113	116	125	138	152	165	178	1.6
Australia and New Zealand	89	90	101	118	138	160	184	210	2.5
<b>Total OECD</b>	<b>3,217</b>	<b>3,259</b>	<b>3,370</b>	<b>3,525</b>	<b>3,761</b>	<b>4,006</b>	<b>4,275</b>	<b>4,571</b>	<b>1.0</b>
<b>Non-OECD</b>									
<b>Non-OECD Europe and Eurasia</b>	<b>1,147</b>	<b>1,116</b>	<b>1,120</b>	<b>1,127</b>	<b>1,158</b>	<b>1,172</b>	<b>1,170</b>	<b>1,174</b>	<b>0.1</b>
Russia	789	761	765	766	783	788	779	770	-0.1
Other	358	355	355	361	375	384	391	404	0.3
<b>Non-OECD Asia</b>	<b>980</b>	<b>1,103</b>	<b>1,406</b>	<b>1,652</b>	<b>2,004</b>	<b>2,378</b>	<b>2,792</b>	<b>3,207</b>	<b>3.4</b>
China	383	496	665	813	977	1,154	1,365	1,568	4.1
India	107	112	145	178	224	278	334	400	3.9
Other	491	495	597	661	803	946	1,093	1,239	2.7
<b>Middle East</b>	<b>869</b>	<b>872</b>	<b>1,005</b>	<b>1,152</b>	<b>1,262</b>	<b>1,372</b>	<b>1,509</b>	<b>1,632</b>	<b>1.8</b>
<b>Africa</b>	<b>275</b>	<b>295</b>	<b>331</b>	<b>341</b>	<b>353</b>	<b>386</b>	<b>419</b>	<b>455</b>	<b>1.4</b>
<b>Non-OECD Americas</b>	<b>320</b>	<b>305</b>	<b>335</b>	<b>350</b>	<b>369</b>	<b>408</b>	<b>448</b>	<b>491</b>	<b>1.2</b>
Brazil	75	76	83	88	92	101	112	123	1.4
Other	245	229	252	262	277	308	336	368	1.2
<b>Total Non-OECD</b>	<b>3,592</b>	<b>3,691</b>	<b>4,196</b>	<b>4,622</b>	<b>5,145</b>	<b>5,716</b>	<b>6,339</b>	<b>6,958</b>	<b>1.9</b>
<b>Total World</b>	<b>6,809</b>	<b>6,949</b>	<b>7,566</b>	<b>8,147</b>	<b>8,906</b>	<b>9,721</b>	<b>10,614</b>	<b>11,529</b>	<b>1.5</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, *Annual Energy Outlook 2017*, DOE/EIA-0383(2017) (Washington, DC: January 2017); AEO2017 National Energy Modeling System run, ref2017.d120816a, www.eia.gov/aeo.