

**Table A13. World Carbon Dioxide Emissions from Coal Use by Region, Reference Case, 1990-2030**  
(Million Metric Tons Carbon Dioxide)

Region/Country	History			Projections					Average Annual Percent Change, 2003-2030
	1990	2002	2003	2010	2015	2020	2025	2030	
<b>OECD</b>									
<b>OECD North America</b> .....	<b>1,910</b>	<b>2,239</b>	<b>2,287</b>	<b>2,553</b>	<b>2,667</b>	<b>2,893</b>	<b>3,215</b>	<b>3,565</b>	<b>1.7</b>
United States <sup>a</sup> .....	1,772	2,064	2,100	2,350	2,404	2,589	2,892	3,226	1.6
Canada .....	123	143	147	154	206	233	247	260	2.1
Mexico .....	15	32	40	49	57	71	76	78	2.5
<b>OECD Europe</b> .....	<b>1,635</b>	<b>1,199</b>	<b>1,203</b>	<b>1,192</b>	<b>1,190</b>	<b>1,211</b>	<b>1,214</b>	<b>1,258</b>	<b>0.2</b>
<b>OECD Asia</b> .....	<b>471</b>	<b>758</b>	<b>761</b>	<b>883</b>	<b>931</b>	<b>954</b>	<b>995</b>	<b>1,049</b>	<b>1.2</b>
Japan .....	245	375	369	373	380	371	359	356	-0.1
South Korea .....	88	170	173	256	283	303	336	373	2.9
Australia/New Zealand .....	137	213	218	254	267	281	301	320	1.4
<b>Total OECD</b> .....	<b>4,016</b>	<b>4,196</b>	<b>4,251</b>	<b>4,628</b>	<b>4,787</b>	<b>5,058</b>	<b>5,424</b>	<b>5,871</b>	<b>1.2</b>
<b>Non-OECD</b>									
<b>Non-OECD Europe and Eurasia</b> ..	<b>1,393</b>	<b>764</b>	<b>775</b>	<b>806</b>	<b>905</b>	<b>999</b>	<b>1,079</b>	<b>1,161</b>	<b>1.5</b>
Russia .....	624	406	422	442	498	556	597	642	1.6
Other .....	770	359	353	364	407	444	482	519	1.4
<b>Non-OECD Asia</b> .....	<b>2,517</b>	<b>3,574</b>	<b>3,805</b>	<b>5,886</b>	<b>7,000</b>	<b>8,049</b>	<b>9,119</b>	<b>10,297</b>	<b>3.8</b>
China .....	1,886	2,518	2,731	4,521	5,432	6,297	7,212	8,286	4.2
India .....	394	665	666	901	1,060	1,198	1,302	1,372	2.7
Other Non-OECD Asia .....	237	391	408	464	508	554	605	639	1.7
<b>Middle East</b> .....	<b>14</b>	<b>35</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>42</b>	<b>0.8</b>
<b>Africa</b> .....	<b>271</b>	<b>339</b>	<b>369</b>	<b>485</b>	<b>535</b>	<b>555</b>	<b>568</b>	<b>583</b>	<b>1.7</b>
<b>Central and South America</b> .....	<b>54</b>	<b>69</b>	<b>70</b>	<b>95</b>	<b>106</b>	<b>126</b>	<b>136</b>	<b>150</b>	<b>2.9</b>
Brazil .....	34	41	44	55	64	73	79	85	2.4
Other Central and South America ..	20	28	25	39	42	53	57	65	3.5
<b>Total Non-OECD</b> .....	<b>4,248</b>	<b>4,782</b>	<b>5,052</b>	<b>7,305</b>	<b>8,581</b>	<b>9,764</b>	<b>10,940</b>	<b>12,233</b>	<b>3.3</b>
<b>Total World</b> .....	<b>8,264</b>	<b>8,978</b>	<b>9,303</b>	<b>11,933</b>	<b>13,368</b>	<b>14,822</b>	<b>16,364</b>	<b>18,104</b>	<b>2.5</b>

<sup>a</sup>Includes the 50 States and the District of Columbia.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2003* (May-July 2005), web site [www.eia.doe.gov/iea/](http://www.eia.doe.gov/iea/). **Projections:** EIA, *Annual Energy Outlook 2006*, DOE/EIA-0383(2006) (Washington, DC, February 2006), AEO2006 National Energy Modeling System, run AEO2006.D111905A, web site [www.eia.doe.gov/oiaf/aeo/](http://www.eia.doe.gov/oiaf/aeo/); and System for the Analysis of Global Energy Markets (2006).