

Table C9. World Carbon Dioxide Emissions by Region, Low Economic Growth Case, 1990-2025
(Million Metric Tons Carbon Dioxide)

Region/Country	History			Projections				Average Annual Percent Change, 2001-2025
	1990	2000	2001	2010	2015	2020	2025	
Industrialized Countries								
North America	5,769	6,731	6,613	7,444	7,897	8,374	8,908	1.2
United States ^a	4,989	5,787	5,692	6,368	6,739	7,136	7,538	1.2
Canada	473	581	569	667	704	732	770	1.3
Mexico	308	364	352	409	453	505	600	2.2
Western Europe	3,412	3,442	3,465	3,478	3,505	3,558	3,655	0.2
United Kingdom	600	553	563	585	605	614	626	0.4
France	374	401	396	381	380	374	377	-0.2
Germany	995	828	819	824	822	862	863	0.2
Italy	415	443	445	470	478	484	491	0.4
Netherlands	211	228	248	225	229	231	232	-0.3
Other Western Europe	816	989	994	993	991	994	1,066	0.3
Industrialized Asia	1,280	1,526	1,556	1,651	1,684	1,744	1,831	0.7
Japan	987	1,138	1,158	1,208	1,219	1,248	1,285	0.4
Australia/New Zealand	294	387	398	443	465	496	547	1.3
Total Industrialized	10,462	11,699	11,634	12,573	13,086	13,677	14,395	0.9
EE/FSU								
Former Soviet Union	3,798	2,338	2,399	2,419	2,521	2,653	2,769	0.6
Russia	2,405	1,570	1,614	1,636	1,705	1,778	1,829	0.5
Other FSU	1,393	767	785	782	817	875	940	0.8
Eastern Europe	1,104	756	748	760	770	796	788	0.2
Total EE/FSU	4,902	3,094	3,148	3,179	3,291	3,449	3,556	0.5
Developing Countries								
Developing Asia	3,994	5,709	6,012	7,166	7,980	8,849	9,768	2.0
China	2,262	2,861	3,050	3,816	4,350	4,943	5,570	2.5
India	561	914	917	1,087	1,235	1,401	1,572	2.3
South Korea	234	425	443	526	555	574	596	1.2
Other Asia	937	1,509	1,602	1,737	1,839	1,931	2,031	1.0
Middle East	846	1,262	1,299	1,438	1,509	1,608	1,707	1.1
Turkey	129	184	184	239	257	267	284	1.8
Other Middle East	717	1,078	1,115	1,199	1,252	1,340	1,423	1.0
Africa	656	811	843	893	956	1,028	1,094	1.1
Central and South America	703	961	964	1,111	1,219	1,350	1,512	1.9
Brazil	250	343	347	417	471	523	585	2.2
Other Central/South America	453	618	617	694	747	827	926	1.7
Total Developing	6,200	8,744	9,118	10,608	11,663	12,834	14,081	1.8
Total World	21,563	23,536	23,899	26,360	28,040	29,960	32,032	1.2

^aIncludes the 50 States and the District of Columbia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union. The U.S. numbers include carbon dioxide emissions attributable to renewable energy sources.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2001*, DOE/EIA-0219(2001) (Washington, DC, February 2003), web site www.eia.doe.gov/iea/. **Projections:** EIA, *Annual Energy Outlook 2004*, DOE/EIA-0383(2004) (Washington, DC, January 2004), Table B19; and System for the Analysis of Global Energy Markets (2004).

Table C10. World Carbon Dioxide Emissions from Oil Use by Region, Low Economic Growth Case, 1990-2025
(Million Metric Tons Carbon Dioxide)

Region/Country	History			Projections				Average Annual Percent Change, 2001-2025
	1990	2000	2001	2010	2015	2020	2025	
Industrialized Countries								
North America	2,626	2,935	2,967	3,285	3,525	3,716	3,967	1.2
United States ^a	2,165	2,416	2,458	2,697	2,898	3,056	3,233	1.1
Canada	222	258	258	301	317	333	351	1.3
Mexico	239	261	251	286	310	328	384	1.8
Western Europe	1,739	1,853	1,845	1,892	1,906	1,909	1,922	0.2
United Kingdom	242	231	231	245	248	255	272	0.7
France	245	267	267	268	267	262	263	-0.1
Germany	376	357	348	356	363	374	375	0.3
Italy	270	261	261	277	277	275	280	0.3
Netherlands	99	98	98	96	97	97	98	0.0
Other Western Europe	507	639	639	650	654	647	635	0.0
Industrialized Asia	768	802	802	842	846	870	889	0.4
Japan	655	667	668	681	672	682	688	0.1
Australia/New Zealand	113	134	134	161	174	188	201	1.7
Total Industrialized	5,133	5,589	5,613	6,019	6,277	6,495	6,779	0.8
EE/FSU								
Former Soviet Union	1,224	547	557	570	614	665	705	1.0
Russia	783	366	369	377	406	440	466	1.0
Other FSU	441	181	189	193	208	225	239	1.0
Eastern Europe	243	189	189	192	202	218	233	0.9
Total EE/FSU	1,468	736	746	762	816	883	938	1.0
Developing Countries								
Developing Asia	1,116	1,912	1,953	2,465	2,766	3,086	3,366	2.3
China	345	619	642	926	1,069	1,231	1,364	3.2
India	165	279	279	343	412	495	571	3.0
South Korea	138	239	245	263	269	271	276	0.5
Other Asia	468	775	787	933	1,016	1,088	1,155	1.6
Middle East	568	753	764	869	917	973	1,008	1.2
Turkey	64	81	81	98	103	108	112	1.4
Other Middle East	504	672	682	771	814	866	896	1.1
Africa	304	356	366	395	424	459	486	1.2
Central and South America	533	694	691	769	830	903	989	1.5
Brazil	210	276	280	301	325	355	388	1.4
Other Central/South America	323	418	411	468	505	548	600	1.6
Total Developing	2,521	3,716	3,774	4,498	4,937	5,421	5,849	1.8
Total World	9,121	10,041	10,134	11,278	12,030	12,798	13,566	1.2

^aIncludes the 50 States and the District of Columbia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2001*, DOE/EIA-0219(2001) (Washington, DC, February 2003), web site www.eia.doe.gov/iea/. **Projections:** EIA, *Annual Energy Outlook 2004*, DOE/EIA-0383(2004) (Washington, DC, January 2004), Table B19; and System for the Analysis of Global Energy Markets (2004).

Table C11. World Carbon Dioxide Emissions from Natural Gas Use by Region, Low Economic Growth Case, 1990-2025
(Million Metric Tons Carbon Dioxide)

Region/Country	History			Projections				Average Annual Percent Change, 2001-2025
	1990	2000	2001	2010	2015	2020	2025	
Industrialized Countries								
North America	1,207	1,503	1,421	1,653	1,753	1,885	1,996	1.4
United States ^a	1,025	1,249	1,189	1,355	1,421	1,510	1,569	1.2
Canada	127	177	156	207	224	236	252	2.0
Mexico	54	77	77	91	108	139	174	3.5
Western Europe	514	786	799	863	938	1,044	1,167	1.6
United Kingdom	110	188	183	205	232	252	266	1.6
France	57	81	85	86	90	90	94	1.8
Germany	116	165	173	182	203	253	265	1.8
Italy	91	135	136	148	158	170	173	1.0
Netherlands	72	81	83	81	89	95	96	0.6
Other Western Europe	67	134	139	161	167	185	272	2.8
Industrialized Asia	133	209	216	238	257	275	306	1.5
Japan	89	152	157	175	186	195	216	1.3
Australia/New Zealand	44	57	59	63	71	80	91	1.8
Total Industrialized	1,853	2,497	2,436	2,753	2,949	3,205	3,469	1.5
EE/FSU								
Former Soviet Union	1,352	1,103	1,119	1,188	1,274	1,369	1,473	1.2
Russia	928	753	768	795	847	897	944	0.9
Other FSU	424	351	351	393	427	472	529	1.7
Eastern Europe	167	127	139	194	222	262	260	2.6
Total EE/FSU	1,519	1,231	1,258	1,382	1,495	1,631	1,733	1.3
Developing Countries								
Developing Asia	167	366	419	501	583	682	809	2.8
China	31	59	66	123	163	215	285	6.3
India	24	43	44	64	76	92	110	3.9
South Korea	6	40	44	63	79	95	107	3.8
Other Asia	106	225	266	252	265	281	307	0.6
Middle East	205	406	435	453	466	507	568	1.1
Turkey	7	29	31	61	65	70	78	3.9
Other Middle East	199	377	404	392	401	437	490	0.8
Africa	80	116	130	140	160	184	209	2.0
Central and South America	116	188	200	245	291	340	405	3.0
Brazil	6	18	19	49	80	97	118	8.0
Other Central/South America	110	170	182	196	211	243	287	1.9
Total Developing	569	1,077	1,184	1,339	1,499	1,714	1,991	2.2
Total World	3,941	4,805	4,878	5,474	5,944	6,549	7,192	1.6

^aIncludes the 50 States and the District of Columbia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2001*, DOE/EIA-0219(2001) (Washington, DC, February 2003), web site www.eia.doe.gov/iea/. **Projections:** EIA, *Annual Energy Outlook 2004*, DOE/EIA-0383(2004) (Washington, DC, January 2004), Table B19; and System for the Analysis of Global Energy Markets (2004).

Table C12. World Carbon Dioxide Emissions from Coal Use by Region, Low Economic Growth Case, 1990-2025
(Million Metric Tons Carbon Dioxide)

Region/Country	History			Projections				Average Annual Percent Change, 2001-2025
	1990	2000	2001	2010	2015	2020	2025	
Industrialized Countries								
North America	1,933	2,293	2,222	2,506	2,619	2,772	2,945	1.2
United States ^a	1,794	2,122	2,042	2,316	2,420	2,570	2,736	1.2
Canada	123	146	155	158	163	163	167	0.3
Mexico	15	25	25	32	35	39	43	2.3
Western Europe	1,159	804	821	723	660	606	566	-1.5
United Kingdom	248	134	149	136	125	106	89	-2.1
France	72	52	44	26	24	23	20	-3.3
Germany	503	306	298	287	255	236	224	-1.2
Italy	54	48	49	45	43	39	37	-1.2
Netherlands	40	49	67	48	43	40	38	-2.3
Other Western Europe	242	216	215	182	171	161	159	-1.3
Industrialized Asia	380	515	539	571	581	599	636	0.7
Japan	243	319	334	352	361	371	381	0.6
Australia/New Zealand	137	196	205	218	220	228	254	0.9
Total Industrialized	3,472	3,613	3,581	3,800	3,860	3,977	4,147	0.6
EE/FSU								
Former Soviet Union	1,222	687	723	661	633	619	591	-0.8
Russia	694	452	478	464	452	441	419	-0.5
Other FSU	528	236	245	197	181	178	172	-1.5
Eastern Europe	694	440	420	374	346	317	295	-1.5
Total EE/FSU	1,915	1,127	1,143	1,036	979	936	885	-1.1
Developing Countries								
Developing Asia	2,710	3,431	3,639	4,201	4,631	5,081	5,593	1.8
China	1,886	2,183	2,342	2,767	3,118	3,497	3,921	2.2
India	371	592	594	680	748	813	890	1.7
South Korea	90	146	155	201	207	208	213	1.3
Other Asia	363	509	549	553	558	562	569	0.2
Middle East	73	103	100	117	125	127	130	1.1
Turkey	59	74	71	81	88	90	93	1.1
Other Middle East	14	29	29	36	37	37	37	1.0
Africa	272	339	347	358	372	385	400	0.6
Central and South America	54	78	73	96	99	107	118	2.0
Brazil	34	49	48	66	67	71	79	2.1
Other Central/South America	20	30	25	30	32	36	39	1.9
Total Developing	3,110	3,951	4,160	4,771	5,227	5,699	6,241	1.7
Total World	8,497	8,691	8,884	9,607	10,066	10,612	11,274	1.0

^aIncludes the 50 States and the District of Columbia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2001*, DOE/EIA-0219(2001) (Washington, DC, February 2003), web site www.eia.doe.gov/iea/. **Projections:** EIA, *Annual Energy Outlook 2004*, DOE/EIA-0383(2004) (Washington, DC, January 2004), Table B19; and System for the Analysis of Global Energy Markets (2004).

Table C13. World Total Energy Consumption in Oil-Equivalent Units by Region, Low Economic Growth Case, 1990-2025
(Million Tons Oil Equivalent)

Region/Country	History			Projections				Average Annual Percent Change, 2001-2025
	1990	2000	2001	2010	2015	2020	2025	
Industrialized Countries								
North America	2,534	2,990	2,912	3,279	3,470	3,667	3,870	1.2
United States ^a	2,131	2,503	2,446	2,730	2,882	3,037	3,184	1.1
Canada	278	331	315	375	395	414	430	1.3
Mexico	126	156	151	175	193	216	256	2.2
Western Europe	1,509	1,685	1,718	1,741	1,773	1,809	1,848	0.3
United Kingdom	234	246	247	254	259	264	269	0.4
France	222	261	265	286	295	305	314	0.7
Germany	373	357	362	363	363	364	365	0.0
Italy	177	201	204	209	213	217	222	0.3
Netherlands	85	99	107	107	109	110	112	0.2
Other Western Europe	418	520	533	522	535	548	566	0.3
Industrialized Asia	563	692	699	749	769	800	830	0.7
Japan	452	548	552	585	596	615	628	0.5
Australia/New Zealand	111	144	147	164	173	185	202	1.3
Total Industrialized	4,606	5,366	5,329	5,769	6,012	6,275	6,548	0.9
EE/FSU								
Former Soviet Union	1,529	1,029	1,055	1,087	1,140	1,195	1,248	0.7
Russia	991	690	711	730	730	768	797	0.5
Other FSU	538	339	345	357	410	427	451	1.1
Eastern Europe	393	285	287	306	319	339	339	0.7
Total EE/FSU	1,923	1,314	1,342	1,393	1,459	1,533	1,587	0.7
Developing Countries								
Developing Asia	1,322	2,029	2,143	2,603	2,932	3,268	3,611	2.2
China	681	931	1,000	1,291	1,490	1,699	1,915	2.7
India	196	319	322	392	451	519	584	2.5
South Korea	95	199	203	238	256	270	282	1.4
Other Asia	350	580	617	682	735	781	830	1.2
Middle East	329	511	524	579	609	652	699	1.2
Turkey	50	76	73	87	93	99	105	1.5
Other Middle East	280	435	451	492	516	553	594	1.2
Africa	235	301	314	335	361	389	418	1.2
Central and South America	364	529	527	607	659	720	794	1.7
Brazil	150	228	221	251	279	308	341	1.8
Other Central/South America	214	302	306	356	380	412	453	1.6
Total Developing	2,250	3,371	3,508	4,123	4,561	5,029	5,522	1.9
Total World	8,779	10,052	10,179	11,286	12,032	12,838	13,656	1.2

^aIncludes the 50 States and the District of Columbia.

Notes: EE/FSU = Eastern Europe/Former Soviet Union.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2001*, DOE/EIA-0219(2001) (Washington, DC, February 2003), web site www.eia.doe.gov/iea/. **Projections:** EIA, *Annual Energy Outlook 2004*, DOE/EIA-0383(2004) (Washington, DC, January 2004), Table B1; and System for the Analysis of Global Energy Markets (2004).