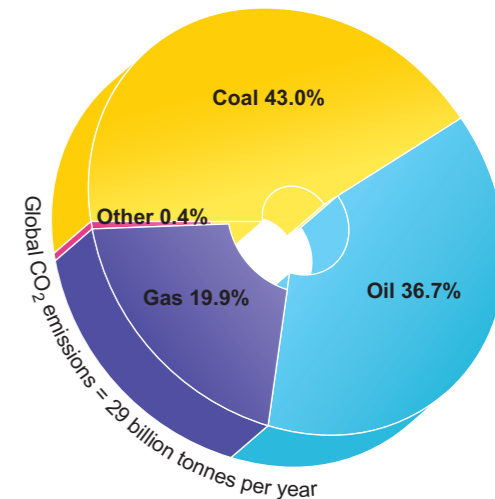
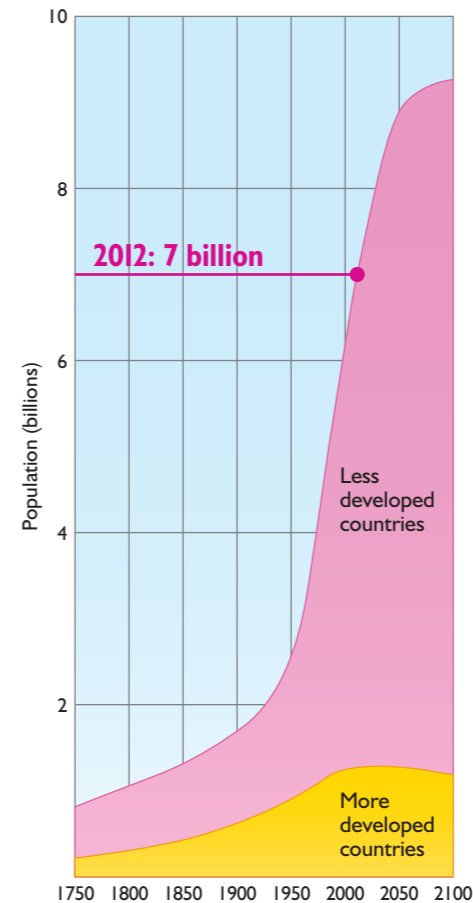




NUCLEAR POWER, ENERGY AND THE ENVIRONMENT

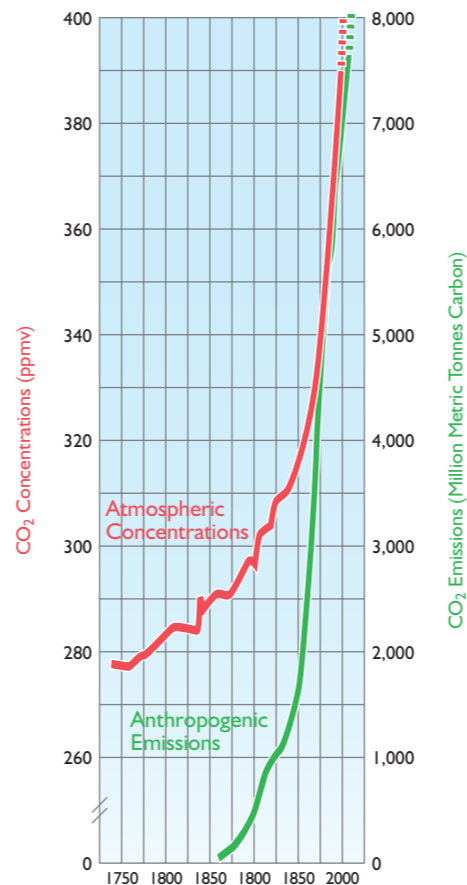


World population growth



Sources: United Nations, World Population Prospects The Population Reference Bureau

CO₂: Anthropogenic emissions and atmospheric concentrations



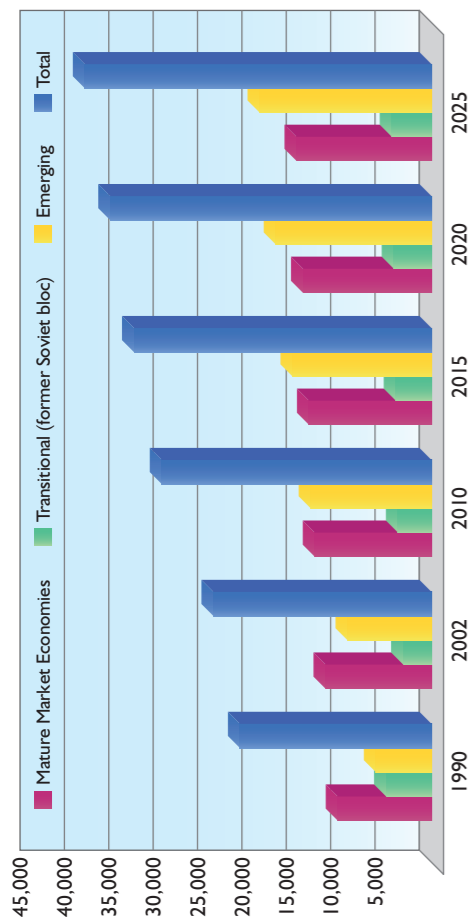
Source: Oak Ridge National Laboratory

Countries with nuclear electricity

	Nuclear capacity (MWe)	% share of electricity 2011
USA	101,607	19
France	63,130	78
Japan	44,396	18
Russia	24,164	18
South Korea	20,787	35
Ukraine	13,168	47
Canada	12,044	15
Germany	12,003	18
China	11,881	2
UK	10,038	18
Sweden	9399	40
Spain	7448	20
Belgium	5943	54
India	4385	4
Czech Republic	3764	33
Switzerland	3252	41
Finland	2741	32
Bulgaria	1906	33
Brazil	1901	3
Hungary	1880	43
Slovakia	1816	54
South Africa	1800	5
Mexico	1600	4
Romania	1310	19
Argentina	935	5
Iran	915	0
Pakistan	725	4
Slovenia	696	42
Netherlands	485	4
Armenia	376	33
Total*	371,422	13

* Includes 6 reactors on Taiwan with a total of 4927 MWe. Sources: WNA, IAEA

World CO₂ emissions



Source: US Energy Information Administration

Energy and emissions, selected countries (2009)

Location	Population (million)	GDP (billion US\$)	CO ₂ emissions (million tonnes)	Energy use per capita (toe ^a)	CO ₂ (tonnes/toe ^a)
Australia	21	535	395	5.9	3.0
Austria	8	218	63	3.8	2.0
Bangladesh	162	78	51	0.2	1.7
Belgium	11	261	101	5.3	1.8
Brazil	194	856	338	1.2	1.4
Bulgaria	8	19	42	2.3	2.4
Canada	34	847	521	7.5	2.1
China	1,331	2,938	6,832	1.7	3.0
Colombia	46	142	61	0.7	1.9
Congo (DR)	66	6	3	0.4	0.1
Croatia	4	28	20	2.0	2.3
Czech Rep	11	76	110	4.0	2.6
Denmark	6	168	47	3.4	2.5
Egypt	83	152	175	0.9	2.4
Ethiopia	83	17	7	0.4	0.2
Finland	5	141	55	6.2	1.7
France	64	1,473	354	4.0	1.4
Germany	82	1,999	750	3.9	2.4
Hungary	10	56	48	2.5	1.9
Iceland	0	11	2	16.4	0.4
India	1,155	875	1,586	0.6	2.4
Indonesia	230	258	376	0.9	1.6
Iran	73	158	533	3.0	2.5
Ireland	4	125	39	3.2	2.8
Italy	60	1,111	389	2.7	2.4
Japan	127	4,872	1,093	3.7	2.3

Location	Population (million)	GDP (billion US\$)	CO ₂ emissions (million tonnes)	Energy use per capita (toe ^a)	CO ₂ (tonnes/toe ^a)
Lithuania	3	17	12	2.5	1.5
Mexico	107	724	400	1.6	2.3
Myanmar	50	20	10	0.3	0.7
Netherlands	17	432	176	4.7	2.3
New Zealand	4	67	31	4.0	1.8
Nigeria	155	78	41	0.7	0.4
North Korea	24	12	66	0.8	3.4
Norway	5	196	37	5.9	1.3
Pakistan	170	111	137	0.5	1.6
Philippines	92	112	71	0.4	1.8
Romania	21	56	78	1.6	2.3
Russia	142	398	1,533	4.6	2.4
Saudi Arabia	25	250	410	6.2	2.6
Slovakia	5	31	33	3.1	2.0
Slovenia	2	26	15	3.4	2.2
South Africa	48	182	369	2.9	2.6
South Korea	49	753	515	4.7	2.3
Spain	46	713	283	2.8	2.2
Sweden	9	286	42	4.9	0.9
Switzerland	8	286	42	3.5	1.6
Thailand	68	174	228	1.5	2.2
Turkey	72	357	256	1.4	2.6
UK	62	1,677	466	3.2	2.4
Ukraine	46	45	256	2.5	2.2
USA	307	11,357	5,195	7.0	2.4
Vietnam	87	59	114	0.7	1.8
World	6,761	39,674	28,999	1.8	2.4

Source: IEA

^a toe = tonnes of oil equivalent

CO₂ emissions per capita (2009)

Location	tonnes	Location	tonnes	Location	tonnes
Australia	17.9	South Africa	7.5	Romania	3.7
USA	16.9	Slovenia	7.4	Turkey	3.6
Saudi Arabia	16.2	Iran	7.3	Thailand	3.4
Canada	15.4	New Zealand	7.2	North Korea	2.8
Taiwan	10.9	Italy	6.5	Egypt	2.1
Russia	10.8	Iceland	6.3	Brazil	1.7
Netherlands	10.7	Spain	6.2	Indonesia	1.6
South Korea	10.6	Slovakia	6.1	India	1.4
Czech Rep	10.5	Ukraine	5.6	Colombia	1.3
Finland	10.3	Bulgaria	5.6	Vietnam	1.3
Belgium	9.3	France	5.5	Pakistan	0.8
Germany	9.2	Switzerland	5.4	Philippines	0.8
Ireland	8.8	China	5.1	Bangladesh	0.3
Japan	8.6	Hungary	4.8	Cote d'Ivoire	0.3
Denmark	8.5	Sweden	4.5	Nigeria	0.3
Norway	7.7	Croatia	4.5	Myanmar	0.2
Austria	7.6	Mexico	3.7	Ethiopia	0.1
UK	7.5	Lithuania	3.7	D.R. of Congo	0.0
World					4.3

Source: IEA

CO₂ emissions per GDP (2009)

Location	kg/US\$	Location	kg/US\$	Location	kg/US\$
Sweden	0.15	D.R. of Congo	0.45	Hungary	0.85
Switzerland	0.15	Ethiopia	0.45	Slovakia	1.06
Iceland	0.18	New Zealand	0.46	Egypt	1.15
Norway	0.19	USA	0.46	Pakistan	1.23
Japan	0.22	Myanmar	0.51	Thailand	1.31
France	0.24	Nigeria	0.53	Romania	1.40
Denmark	0.28	Cote d'Ivoire	0.54	Czech Rep	1.45
UK	0.28	Mexico	0.55	Indonesia	1.46
Austria	0.29	Slovenia	0.59	Saudi Arabia	1.64
Ireland	0.32	Canada	0.61	India	1.81
Italy	0.35	Taiwan	0.61	Vietnam	1.94
Germany	0.38	Philippines	0.63	South Africa	2.03
Belgium	0.39	Bangladesh	0.65	Bulgaria	2.19
Brazil	0.39	South Korea	0.68	China	2.33
Finland	0.39	Croatia	0.70	Iran	3.37
Spain	0.40	Lithuania	0.72	Russia	3.86
Netherlands	0.41	Turkey	0.72	Ukraine	5.65
Colombia	0.43	Australia	0.74	North Korea	5.74
World					0.73

Source: IEA



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