

ANNEX

RESULTS SUMMARY TABLES

EAS17 (BAU)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	3,955	5,049	7,488	8,249	8,928	9,595	10,255	10,943	100	100	100	100	100	100	100	100	2.6	2.0	1.5	1.3	1.5
Coal	1,230	1,558	3,103	3,297	3,511	3,755	4,002	4,254	31.1	30.9	41.4	40.0	39.3	39.1	39.0	38.9	3.8	1.2	1.3	1.3	1.3
Oil	1,361	1,751	2,082	2,320	2,488	2,652	2,801	2,981	34.4	34.7	27.8	28.1	27.9	27.6	27.3	27.2	1.7	2.2	1.3	1.2	1.4
Natural gas	557	772	1,155	1,296	1,444	1,607	1,785	1,972	14.1	15.3	15.4	15.7	16.2	16.8	17.4	18.0	3.0	2.3	2.2	2.1	2.2
Nuclear	227	329	316	404	473	520	526	543	5.8	6.5	4.2	4.9	5.3	5.4	5.1	5.0	1.3	5.0	2.5	0.4	2.2
Hydro	54	63	151	172	183	193	202	209	1.4	1.2	2.0	2.1	2.1	2.0	2.0	1.9	4.2	2.6	1.1	0.8	1.3
Geothermal	24	38	48	50	66	72	94	103	0.6	0.8	0.6	0.6	0.7	0.7	0.9	0.9	2.9	0.6	3.7	3.7	3.1
Others	501	537	632	710	762	798	845	881	12.7	10.6	8.4	8.6	8.5	8.3	8.2	8.1	0.9	2.4	1.2	1.0	1.3
Biomass	497	523	498	511	504	489	477	464	12.6	10.4	6.7	6.2	5.6	5.1	4.6	4.2	0.0	0.5	-0.4	-0.5	-0.3
Solar, Wind, Ocean	2	4	75	130	176	224	269	314	0.0	0.1	1.0	1.6	2.0	2.3	2.6	2.9	15.9	11.6	5.5	3.4	5.9
Biofuels	1	7	54	66	76	80	91	96	0.0	0.1	0.7	0.8	0.9	0.8	0.9	0.9	18.2	4.1	1.9	1.9	2.4
Electricity	0	2	5	4	5	6	9	7	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	10.1	-4.8	5.3	0.5	1.3

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	2,785	3,453	5,020	5,565	6,025	6,479	6,926	7,410	100	100	100	100	100	100	100	100	2.4	2.1	1.5	1.4	1.6
Industry	779	957	1,717	1,865	2,011	2,165	2,333	2,529	28.0	27.7	34.2	33.5	33.4	33.4	33.7	34.1	3.2	1.7	1.5	1.6	1.6
Transportation	681	910	1,275	1,466	1,596	1,712	1,817	1,936	24.5	26.4	25.4	26.3	26.5	26.4	26.2	26.1	2.5	2.8	1.6	1.2	1.7
Others	1,093	1,253	1,557	1,697	1,825	1,950	2,068	2,177	39.3	36.3	31.0	30.5	30.3	30.1	29.9	29.4	1.4	1.7	1.4	1.1	1.3
Non-energy	231	333	471	538	593	652	708	768	8.3	9.7	9.4	9.7	9.8	10.1	10.2	10.4	2.9	2.7	1.9	1.7	2.0
Total	2,785	3,453	5,020	5,565	6,025	6,479	6,926	7,410	100	100	100	100	100	100	100	100	2.4	2.1	1.5	1.4	1.6
Coal	456	393	908	963	1,024	1,083	1,141	1,218	16.4	11.4	18.1	17.3	17.0	16.7	16.5	16.4	2.8	1.2	1.2	1.2	1.2
Oil	1,132	1,506	1,894	2,128	2,295	2,458	2,605	2,779	40.7	43.6	37.7	38.2	38.1	37.9	37.6	37.5	2.1	2.4	1.5	1.2	1.5
Natural gas	351	446	581	658	733	814	893	976	12.6	12.9	11.6	11.8	12.2	12.6	12.9	13.2	2.0	2.5	2.1	1.8	2.1
Electricity	383	574	1,047	1,206	1,359	1,524	1,693	1,858	13.8	16.6	20.8	21.7	22.6	23.5	24.4	25.1	4.1	2.9	2.4	2.0	2.3
Heat	16	35	94	101	107	113	118	122	0.6	1.0	1.9	1.8	1.8	1.7	1.7	1.6	7.4	1.6	1.1	0.7	1.1
Others	446	499	497	509	505	487	475	458	16.0	14.5	9.9	9.2	8.4	7.5	6.9	6.2	0.4	0.5	-0.5	-0.6	-0.3

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	5,436	7,948	14,290	16,499	18,573	20,752	22,912	25,030	100	100	100	100	100	100	100	100	3.9	2.9	2.3	1.9	2.3
Coal	2,618	4,180	7,681	8,379	9,159	10,094	11,095	12,024	48.2	52.6	53.8	50.8	49.3	48.6	48.4	48.0	4.4	1.8	1.9	1.8	1.8
Oil	566	482	223	171	152	130	108	94	10.4	6.1	1.6	1.0	0.8	0.6	0.5	0.4	-3.7	-5.2	-2.7	-3.2	-3.4
Natural gas	621	1,157	2,546	2,616	3,296	3,748	4,289	4,846	11.4	14.6	17.8	17.7	17.7	18.1	18.7	19.4	5.8	2.8	2.5	2.6	2.6
Nuclear	873	1,262	1,213	1,550	1,816	1,994	2,019	2,084	16.1	15.9	8.5	9.4	9.8	9.6	8.8	8.3	1.3	5.0	2.5	0.4	2.2
Hydro	630	731	1,761	2,004	2,133	2,240	2,344	2,425	11.6	9.2	12.3	12.1	11.5	10.8	10.2	9.7	4.2	2.6	1.1	0.8	1.3
Geothermal	27	37	50	61	82	91	110	120	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	2.6	3.8	4.1	2.8	3.5
Others	101	98	815	1,418	1,935	2,455	2,948	3,436	1.9	1.2	5.7	8.6	10.4	11.8	12.9	13.7	8.7	11.7	5.6	3.4	5.9

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	910	1,377	2,274	2,440	2,643	2,884	3,150	3,412	100	100	100	100	100	100	100	100	3.7	1.4	1.7	1.7	1.6
Coal	643	1,024	1,764	1,890	2,038	2,216	2,403	2,577	70.7	74.3	77.6	77.5	77.1	76.8	76.3	75.5	4.1	1.4	1.6	1.5	1.5
Oil	126	112	53	41	36	30	24	21	13.8	8.1	2.3	1.7	1.4	1.1	0.8	0.6	-3.4	-5.2	-2.8	-3.5	-3.5
Natural gas	141	241	457	510	569	637	722	813	15.5	17.5	20.1	20.9	21.5	22.1	22.9	23.8	4.8	2.2	2.3	2.5	2.3

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	36.0	36.3	39.5	40.4	41.0	41.7	42.3	42.8									0.4	0.4	0.3	0.3	0.3
Coal	35.0	35.1	37.5	38.1	38.7	39.2	39.7	40.1									0.3	0.4	0.3	0.2	0.3
Oil	38.7	37.0	36.3	36.3	36.1	36.8	38.0	37.7									-0.3	0.0	0.1	0.3	0.2
Natural gas	37.9	41.2	47.9	49.2	49.8	50.6	51.0	51.3									0.9	0.5	0.3	0.1	0.3

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	2,762	3,534	5,660	6,132	6,604	7,108	7,621	8,189	100	100	100	100	100	100	100	100	2.9	1.6	1.5	1.4	1.5
Coal	1,349	1,719	3,369	3,577	3,824	4,096	4,378	4,673	48.8	48.6	59.5	58.3	57.9	57.6	57.4	57.1	3.7	1.2	1.4	1.3	1.3
Oil	1,033	1,306	1,514	1,645	1,751	1,866	1,987	2,140	37.4	36.9	26.7	26.8	26.5	26.2	26.1	26.1	1.5	1.7	1.3	1.4	1.4
Natural gas	380	509	776	910	1,029	1,147	1,257	1,377	13.8	14.4	13.7	14.8	15.6	16.1	16.5	16.8	2.9	3.2	2.3	1.8	2.3

Energy and economic indicators

										AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
GDP (billions of 2010 US dollars)	16,861	23,941	39,023	46,476	55,279	65,967	78,166	91,534	3.4	3.6	3.6	3.3	3.5	
Population (millions of people)	2,881	3,313	3,839	3,987	4,114	4,218	4,298	4,357	1.2	0.8	0.6	0.3	0.5	
GDP per capita (thousands of 2010 US\$/person)	5.85	7.23	10.17	11.66	13.4	15.6	18.2	21.0	2.2	2.8	3.0	3.0	2.9	
Primary energy consumption per capita (toe/person)	1.37	1.52	1.95	2.07	2.17	2.27	2.39	2.51	1.4	1.2	1.0	1.0	1.0	
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	235	211	192	177	162	145	131	120	-0.8	-1.5	-2.0	-1.9	-1.9	
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	165	144	129	120	109	98	89	81	-1.0	-1.4	-2.0	-1.9	-1.8	
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	164	148	145	132	119	108	98	89	-0.5	-1.9	-2.0	-1.8	-1.9	
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.70	0.70	0.76	0.74	0.74	0.74	0.74	0.75	0.3	-0.3	0.0	0.1	0.0	

EAS17 (APS)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	3,955	5,049	7,487	8,072	8,486	8,857	9,182	9,512	100	100	100	100	100	100	100	100	2.6	1.5	0.9	0.7	1.0
Coal	1,230	1,558	3,103	3,149	3,138	3,144	3,115	3,100	31.1	30.9	41.4	39.0	37.0	35.5	33.9	32.6	3.8	0.3	0.0	-0.1	0.0
Oil	1,361	1,751	2,082	2,285	2,372	2,439	2,492	2,573	34.4	34.7	27.8	28.3	27.9	27.5	27.1	27.0	1.7	1.9	0.7	0.5	0.9
Natural gas	557	772	1,155	1,252	1,343	1,441	1,531	1,620	14.1	15.3	15.4	15.5	15.8	16.3	16.7	17.0	3.0	1.6	1.4	1.2	1.4
Nuclear	227	329	316	416	522	603	677	752	5.8	6.5	4.2	5.2	6.2	6.8	7.4	7.9	1.3	5.6	3.8	2.2	3.5
Hydro	54	63	151	175	188	201	212	222	1.4	1.2	2.0	2.2	2.2	2.3	2.3	2.3	4.2	2.9	1.4	1.0	1.5
Geothermal	24	38	48	72	109	144	165	166	0.6	0.8	0.6	0.9	1.3	1.6	1.8	1.7	2.9	8.3	7.2	1.5	5.1
Others	501	537	632	724	814	886	990	1,078	12.7	10.6	8.4	9.0	9.6	10.0	10.8	11.3	0.9	2.8	2.0	2.0	2.2
Biomass	497	523	498	514	509	495	497	486	12.6	10.4	6.7	6.4	6.0	5.6	5.4	5.1	0.0	0.6	-0.4	-0.2	-0.1
Solar, Wind, Ocean	2	4	75	139	212	282	364	445	0.0	0.1	1.0	1.7	2.5	3.2	4.0	4.7	15.9	13.0	7.3	4.7	7.4
Biofuels	1	7	54	68	89	104	123	142	0.0	0.1	0.7	0.8	1.1	1.2	1.3	1.5	18.2	4.8	4.3	3.2	4.0
Electricity	0	2	5	4	5	6	7	5	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	10.1	-5.1	3.9	-0.6	0.2

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	2,785	3,453	5,020	5,457	5,775	6,058	6,324	6,615	100	100	100	100	100	100	100	100	2.4	1.7	1.1	0.9	1.1
Industry	779	957	1,717	1,821	1,922	2,024	2,127	2,240	28.0	27.7	34.2	33.4	33.3	33.4	33.6	33.9	3.2	1.2	1.1	1.0	1.1
Transportation	681	910	1,275	1,427	1,504	1,552	1,594	1,653	24.5	26.4	25.4	26.2	26.0	25.6	25.2	25.0	2.5	2.3	0.8	0.6	1.0
Others	1,093	1,253	1,557	1,670	1,756	1,830	1,896	1,954	39.3	36.3	31.0	30.6	30.4	30.2	30.0	29.5	1.4	1.4	0.9	0.7	0.9
Non-energy	231	333	471	538	593	652	708	768	8.3	9.7	9.4	9.9	10.3	10.8	11.2	11.6	2.9	2.7	1.9	1.7	2.0
Total	2,785	3,453	5,020	5,457	5,775	6,058	6,324	6,615	100	100	100	100	100	100	100	100	2.4	1.7	1.1	0.9	1.1
Coal	456	393	908	947	991	1,029	1,060	1,102	16.4	11.4	18.1	17.3	17.2	17.0	16.8	16.7	2.8	0.8	0.8	0.7	0.8
Oil	1,132	1,506	1,894	2,087	2,180	2,252	2,311	2,391	40.7	43.6	37.7	38.2	37.8	37.2	36.5	36.1	2.1	2.0	0.8	0.6	0.9
Natural gas	351	446	581	645	703	761	816	871	12.6	12.9	11.6	11.8	12.2	12.6	12.9	13.2	2.0	2.1	1.7	1.4	1.6
Electricity	383	574	1,047	1,182	1,304	1,433	1,563	1,688	13.8	16.6	20.8	21.7	22.6	23.7	24.7	25.5	4.1	2.5	1.9	1.7	1.9
Heat	16	35	94	99	102	106	108	108	0.6	1.0	1.9	1.8	1.8	1.7	1.7	1.6	7.4	1.1	0.7	0.2	0.6
Others	446	499	497	497	495	478	466	455	16.0	14.5	9.9	9.1	8.6	7.9	7.4	6.9	0.4	0.0	-0.4	-0.5	-0.3

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	5,436	7,948	14,289	16,176	17,811	19,498	21,144	22,709	100	100	100	100	100	100	100	100	3.9	2.5	1.9	1.5	1.9
Coal	2,618	4,180	7,681	7,915	7,947	8,086	8,111	8,126	48.2	52.6	53.8	48.9	44.6	41.5	38.4	35.8	4.4	0.6	0.2	0.0	0.2
Oil	566	482	223	196	163	134	103	89	10.4	6.1	1.6	1.2	0.9	0.7	0.5	0.4	-3.7	-2.6	-3.7	-4.0	-3.6
Natural gas	621	1,157	2,546	2,790	3,013	3,293	3,561	3,802	11.4	14.6	17.8	17.2	16.9	16.9	16.8	16.7	5.8	1.8	1.7	1.4	1.6
Nuclear	873	1,262	1,213	1,596	2,003	2,314	2,598	2,885	16.1	15.9	8.5	9.9	11.2	11.9	12.3	12.7	1.3	5.6	3.8	2.2	3.5
Hydro	630	731	1,761	2,034	2,181	2,332	2,468	2,586	11.6	9.2	12.3	12.6	12.2	12.0	11.7	11.4	4.2	2.9	1.4	1.0	1.5
Geothermal	27	37	50	75	121	154	175	185	0.5	0.5	0.4	0.5	0.7	0.8	0.8	0.8	2.6	8.3	7.5	1.8	5.3
Others	101	98	815	1,569	2,384	3,183	4,128	5,036	1.9	1.2	5.7	9.7	13.4	16.3	19.5	22.2	8.7	14.0	7.3	4.7	7.6

Power generation input

	Mtoe								Share, %								AAGR (%)					
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
Total	910	1,377	2,274	2,300	2,278	2,285	2,269	2,260	100	100	100	100	100	100	100	100	3.7	0.2	-0.1	-0.1	0.0	
Coal	643	1,024	1,764	1,771	1,731	1,714	1,675	1,640	70.7	74.3	77.6	77.0	76.0	75.0	73.8	72.6	4.1	0.1	-0.3	-0.4	-0.3	
Oil	126	112	53	47	39	32	24	21	13.8	8.1	2.3	2.1	1.7	1.4	1.0	0.9	-3.4	-2.1	-3.9	-4.2	-3.7	
Natural gas	141	241	457	481	508	540	570	599	15.5	17.5	20.1	20.9	22.3	23.6	25.1	26.5	4.8	1.0	1.2	1.1	1.1	

Thermal efficiency

	%									Share, %									AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040		1990	2000	2015	2020	2025	2030	2035	2040		1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	36.0	36.3	39.5	40.8	43.0	43.3	44.6	45.7											0.4	0.6	0.6	0.5	0.6
Coal	35.0	35.1	37.5	38.4	39.5	40.6	41.6	42.6											0.3	0.5	0.5	0.5	0.5
Oil	38.7	37.0	36.3	35.5	35.8	36.4	37.5	37.2											-0.3	-0.4	0.3	0.2	0.1
Natural gas	37.9	41.2	47.9	49.9	51.0	52.5	53.7	54.6											0.9	0.8	0.5	0.4	0.5

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	2,762	3,534	5,660	5,884	5,963	6,067	6,118	6,207	100	100	100	100	100	100	100	100	2.9	0.8	0.3	0.2	0.4
Coal	1,349	1,719	3,369	3,406	3,388	3,401	3,379	3,365	48.8	48.6	59.5	57.9	56.8	56.1	55.2	54.2	3.7	0.2	0.0	-0.1	0.0
Oil	1,033	1,306	1,514	1,615	1,644	1,672	1,695	1,748	37.4	36.9	26.8	27.5	27.6	27.6	27.7	28.2	1.5	1.3	0.3	0.4	0.6
Natural gas	380	509	776	863	931	995	1,044	1,094	13.8	14.4	13.7	14.7	15.6	16.4	17.1	17.6	2.9	2.1	1.4	1.0	1.4

Energy and economic indicators

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Australia (BAU)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	86.4	103.1	125.3	128.7	133.5	136.7	138.7	140.1	100	100	100	100	100	100	100	100	1.5	0.5	0.6	0.2
Coal	35.1	43.1	42.9	41.0	40.7	39.5	37.6	35.4	40.7	41.8	34.2	31.8	30.5	28.9	27.1	25.3	0.8	-0.9	-0.4	-1.1
Oil	31.2	34.2	41.9	42.6	42.8	42.7	42.3	36.1	33.1	33.1	33.4	33.1	32.1	31.4	30.8	30.2	1.2	0.4	0.0	-0.1
Natural gas	14.8	19.3	32.2	35.1	38.8	41.8	44.5	46.9	17.1	18.7	25.7	27.2	29.0	30.6	32.1	33.5	3.2	1.7	1.8	1.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Hydro	1.2	1.4	1.1	1.5	1.5	1.5	1.5	1.5	1.4	1.4	0.9	1.2	1.1	1.1	1.1	1.1	-0.2	5.8	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	111.9	1.1	1.0
Others	4.0	5.1	7.1	8.5	9.7	11.0	12.4	13.8	4.7	5.0	5.7	6.6	7.3	8.0	9.0	9.9	2.3	3.5	2.6	2.4
Biomass	4.0	4.9	4.6	4.8	4.9	5.0	5.1	5.1	4.6	4.7	3.7	3.7	3.7	3.7	3.7	3.7	0.6	0.9	0.4	0.2
Solar, Wind, Ocean	0.1	0.1	1.9	2.9	4.0	5.1	6.4	7.8	0.1	0.1	1.5	2.3	3.0	3.7	4.6	5.6	13.3	9.5	5.7	4.4
Biofuels	0.0	0.1	0.7	0.8	0.8	0.9	0.9	0.9	0.0	0.1	0.6	0.6	0.6	0.6	0.6	0.7	-	1.9	1.0	0.9
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-

Final energy demand

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	56.7	69.6	81.3	84.4	87.1	89.7	92.0	94.1	100	100	100	100	100	100	100	100	1.5	0.8	0.6	0.5
Industry	19.3	23.8	24.0	25.1	25.8	26.5	27.0	27.5	34.1	34.2	29.5	29.7	29.6	29.5	29.4	29.2	0.9	0.9	0.6	0.4
Transportation	21.1	25.7	32.5	33.0	33.1	33.3	33.4	33.5	37.3	36.9	40.0	39.1	38.1	37.1	36.3	35.6	1.7	0.3	0.1	0.1
Others	12.3	15.7	20.7	22.2	23.9	25.6	27.2	28.7	21.7	22.6	25.5	26.3	27.5	28.6	29.6	30.5	2.1	1.4	1.4	1.1
Non-energy	4.0	4.4	4.1	4.2	4.2	4.3	4.4	4.4	7.0	6.4	5.0	4.9	4.9	4.8	4.7	4.7	0.1	0.5	0.3	0.2
Total	56.7	69.6	81.3	84.4	87.1	89.7	92.0	94.1	100	100	100	100	100	100	100	100	1.5	0.8	0.6	0.5
Coal	4.6	4.2	2.3	2.3	2.2	2.1	2.0	1.9	8.0	6.0	2.9	2.7	2.5	2.3	2.1	2.0	-2.6	-0.5	-0.9	-1.2
Oil	29.0	34.7	42.6	43.2	43.4	43.5	43.4	43.2	51.2	49.9	52.4	51.2	49.8	48.5	47.2	46.0	1.5	0.3	0.1	-0.1
Natural gas	8.7	11.4	13.5	14.2	14.7	15.3	15.7	16.1	15.3	16.4	16.6	16.8	16.9	17.0	17.1	17.1	1.8	1.0	0.8	0.5
Electricity	11.1	14.9	18.2	19.8	21.7	23.6	25.6	27.5	19.6	21.4	22.4	23.5	24.9	26.3	27.8	29.2	2.0	1.8	1.8	1.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Others	3.3	4.4	4.7	4.9	5.1	5.2	5.3	5.4	5.9	6.4	5.8	5.9	5.8	5.8	5.8	5.7	1.4	1.0	0.6	0.3

Power generation output

	TWh								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	154.3	209.9	252.3	274.9	299.7	325.1	350.0	373.7	100	100	100	100	100	100	100	100	2.0	1.7	1.7	1.4
Coal	121.5	174.2	158.6	154.1	153.2	151.8	147.3	141.4	78.7	83.0	62.9	56.0	51.1	46.7	42.1	37.8	1.1	-0.6	-0.1	-0.7
Oil	3.6	1.8	6.8	6.7	6.8	6.8	6.7	6.6	2.3	0.9	2.7	2.4	2.3	2.1	1.9	1.8	2.6	-0.3	0.2	-0.3
Natural gas	14.4	16.2	52.5	63.0	76.1	90.5	104.4	118.6	9.3	7.7	20.8	22.9	25.4	27.8	29.8	31.7	5.3	3.7	3.7	3.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Hydro	14.1	16.4	13.4	17.7	17.7	17.7	17.7	17.7	9.2	7.8	5.3	6.4	5.9	5.4	5.1	4.7	-0.2	5.8	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	111.9	1.1	1.0
Others	0.8	1.2	21.0	33.4	45.8	58.2	73.8	89.4	0.5	0.6	8.3	12.2	15.3	17.9	21.1	23.9	14.3	9.7	5.7	4.4

Power generation input

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	33.3	45.8	52.0	52.2	54.8	56.0	56.2	56.0	100	100	100	100	100	100	100	100	1.8	0.1	0.7	0.0
Coal	28.9	41.2	38.8	36.9	36.7	35.6	33.9	31.9	86.8	90.0	74.5	70.8	66.9	63.6	60.3	56.9	1.2	-1.0	-0.4	-1.1
Oil	0.9	0.5	1.4	1.5	1.6	1.6	1.6	1.6	2.8	1.1	2.6	2.9	2.8	2.8	2.8	2.8	1.5	2.4	0.3	-0.1
Natural gas	3.5	4.1	11.9	13.7	16.6	18.8	20.7	22.6	10.4	8.9	22.9	26.3	30.2	33.5	36.9	40.3	5.0	2.9	3.2	1.8

Thermal efficiency

	%																AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	36.0	36.1	36.0	36.9	37.0	38.3	39.6	40.9									0.0	0.5	0.4	0.7
Coal	36.1	36.4	35.2	35.9	35.9	36.7	37.4	38.1									-0.1	0.4	0.2	0.4
Oil	32.3	29.2	42.9	37.5	37.2	36.9	36.6	36.3									1.1	-2.7	-0.1	-0.2
Natural gas	35.6	34.4	38.0	39.5	39.5	41.4	43.3	45.2									0.3	0.8	0.5	0.9

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	70.3	83.9	98.8	99.1	101.2	101.9	101.3	100.3	100	100	100	100	100	100	100	100	1.4	0.1	0.3	-0.2
Coal	37.9	46.6	46.3	44.3	43.9	42.6	40.6	38.3	54.0	55.5	46.9	44.7	43.4	41.8	40.0	38.2	0.8	-0.9	-0.4	-1.1
Oil	23.2	25.2	32.3	32.9	33.0	32.9	32.6	33.0	30.0	30.0	32.7	33.2	32.6	32.4	32.4	32.5	1.3	0.4	0.0	-0.1
Natural gas	9.2	12.1	20.1	21.9	24.3	26.2	27.9	29.4	13.1	14.5	20.4	22.1	24.0	25.7	27.5	29.3	3.2	1.7	1.8	1.2

Energy and economic indicators

									AAGR(%)					
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
GDP (billions of 2010 US dollars)	636	881	1,355	1,561	1,782	2,016	2,260	2,510	3.1	2.9	2.6	2.2	2.5	
Population (millions of people)	17	19	24	25	27	28	30	31	1.3	1.3	1.1	0.9	1.0	
GDP per capita (thousands of 2010 US\$/person)	37.30	46.01	56.95	61.49	66.4	71.4	76.6	81.6	1.7	1.5	1.5	1.3	1.4	
Primary energy consumption per capita (toe/person)	5.06	5.38	5.27	5.07	4.97	4.84	4.70	4.55	0.2	-0.8	-0.5	-0.6	-0.6	
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	136	117	92	82	75	68	61	56	-1.5	-2.3	-1.9	-1.9	-2.0	
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	89	79	60	54	49	44	41	37	-1.6	-2.1	-1.9	-1.7	-1.9	
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	110	95	73	63	57	51	45	40	-1.6	-2.7	-2.3	-2.3	-2.4	
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.81	0.81	0.79	0.77	0.76	0.75	0.73	0.72	-0.1	-0.5	-0.3	-0.4	-0.4	
Automobile ownership volume (millions of vehicles)	10	12	17	19	20	22	23	24	2.3	1.7	1.4	1.2	1.4	
Automobile ownership volume per capita (vehicles per person)	0.573	0.642	0.721	0.734	0.748	0.762	0.776	0.789	0.9	0.4	0.4	0.3	0.4	

Australia (APS)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	86.4	103.1	125.3	125.5	125.0	124.1	122.3	119.9	100	100	100	100	100	100	100	100	1.5	0.0	-0.1	-0.3	-0.2
Coal	35.1	43.1	42.9	38.8	35.9	33.2	30.2	27.2	40.7	41.8	34.2	30.9	28.7	26.7	24.7	22.7	0.8	-2.0	-1.6	-2.0	-1.8
Oil	31.2	34.2	41.9	41.8	40.7	39.1	37.2	35.2	36.1	33.1	33.4	33.3	32.6	31.5	30.4	29.4	1.2	0.0	-0.7	-1.0	-0.7
Natural gas	14.8	19.3	32.2	33.9	35.4	36.9	37.9	38.5	17.1	18.7	25.7	27.0	28.3	29.7	31.0	32.1	3.2	1.0	0.8	0.4	0.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	1.2	1.4	1.1	1.5	1.5	1.5	1.5	1.5	1.4	1.4	0.9	1.2	1.2	1.2	1.2	1.3	-0.2	5.8	0.0	0.0	1.1
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	112.6	3.0	1.1	18.2
Others	4.0	5.1	7.1	9.4	11.4	13.4	15.5	17.5	4.7	5.0	5.7	7.5	9.1	10.8	12.7	14.6	2.3	5.6	3.6	2.7	3.7
Biomass	4.0	4.9	4.6	4.9	5.0	5.0	5.0	5.0	4.6	4.7	3.7	3.9	4.0	4.0	4.1	4.1	0.6	1.2	0.2	-0.1	0.3
Solar, Wind, Ocean	0.1	0.1	1.9	3.5	5.1	6.7	8.5	10.3	0.1	0.1	1.5	2.8	4.1	5.4	7.0	8.6	13.3	13.5	6.8	4.3	7.1
Biofuels	0.0	0.1	0.7	1.0	1.3	1.6	2.0	2.3	0.0	0.1	0.6	0.8	1.1	1.3	1.6	1.9	-	7.6	4.8	3.5	4.8
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	56.7	69.6	81.3	83.6	84.6	85.0	84.8	84.5	100	100	100	100	100	100	100	100	1.5	0.6	0.2	-0.1	0.2
Industry	19.3	23.8	24.0	24.9	25.6	25.7	25.5	24.1	34.1	34.2	29.5	29.8	30.0	30.2	30.3	30.2	0.9	0.7	0.3	-0.1	0.2
Transportation	21.1	25.7	32.5	32.7	32.0	31.0	29.9	29.0	37.3	36.9	40.0	39.1	37.8	36.5	35.3	34.3	1.7	0.1	-0.5	-0.7	-0.5
Others	12.3	15.7	20.7	21.8	23.0	24.0	24.9	25.6	21.7	22.6	25.5	26.1	27.2	28.3	29.4	30.3	2.1	1.1	1.0	0.6	0.9
Non-energy	4.0	4.4	4.1	4.2	4.2	4.3	4.4	4.4	7.0	6.4	5.0	5.0	5.0	5.1	5.1	5.2	0.1	0.5	0.3	0.2	0.3
Total	56.7	69.6	81.3	83.6	84.6	85.0	84.8	84.5	100	100	100	100	100	100	100	100	1.5	0.6	0.2	-0.1	0.2
Coal	4.6	4.2	2.3	2.3	2.1	2.0	1.9	1.7	8.0	6.0	2.9	2.7	2.5	2.4	2.2	2.0	-2.6	-0.6	-1.2	-1.7	-1.3
Oil	29.0	34.7	42.6	42.6	41.6	39.9	38.1	36.2	51.2	49.9	52.4	51.0	49.1	47.0	44.9	42.8	1.5	0.0	-0.7	-1.0	-0.6
Natural gas	8.7	11.4	13.5	14.0	14.4	14.6	14.7	14.7	15.3	16.4	16.6	16.8	17.0	17.2	17.3	17.4	1.8	0.8	0.4	0.0	0.3
Electricity	11.1	14.9	18.2	19.6	21.2	22.8	24.4	25.9	19.6	21.4	22.4	23.5	25.0	26.8	28.7	30.6	2.0	1.5	1.5	1.3	1.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	3.3	4.4	4.7	5.0	5.4	5.6	5.9	6.0	5.9	6.4	5.8	6.0	6.3	6.6	6.9	7.2	1.4	1.4	1.1	0.7	1.0

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	154.3	209.9	252.3	272.0	292.6	313.5	333.7	352.2	100	100	100	100	100	100	100	100	2.0	1.5	1.4	1.2	1.3
Coal	121.5	174.2	158.6	146.8	139.3	131.9	122.9	113.0	78.7	83.0	62.9	54.0	47.6	42.1	36.8	32.1	1.1	-1.5	-1.1	-1.5	-1.3
Oil	3.6	1.8	6.8	6.4	6.1	5.9	5.6	5.3	2.3	0.9	2.7	2.3	2.1	1.9	1.7	1.5	2.6	-1.3	-0.7	-1.1	-1.0
Natural gas	14.4	16.2	52.5	60.0	69.2	78.6	87.1	94.8	9.3	7.7	20.8	22.1	23.7	25.1	26.1	26.9	5.3	2.7	2.7	1.9	2.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	14.1	16.4	13.4	17.7	17.7	17.7	17.7	17.7	9.2	7.8	5.3	6.5	6.0	5.6	5.3	5.0	-0.2	5.8	0.0	0.0	1.1
Geothermal	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	112.6	3.0	1.1	18.2
Others	0.8	1.2	21.0	41.1	60.2	79.2	100.3	121.4	0.5	0.6	8.3	15.1	20.6	25.3	30.1	34.5	14.3	14.3	6.8	4.4	7.3

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	33.3	45.8	52.0	49.1	47.7	46.3	44.4	42.3	100	100	100	100	100	100	100	100	1.8	-1.2	-0.6	-0.9	-0.8
Coal	28.9	41.2	38.8	34.9	32.2	29.7	27.0	24.2	86.8	90.0	74.5	71.1	67.6	64.1	60.7	57.2	1.2	-2.1	-1.6	-2.0	-1.9
Oil	0.9	0.5	1.4	1.3	1.2	1.2	1.1	1.1	2.8	1.1	2.6	2.6	2.6	2.6	2.5	2.5	1.5	-1.3	-0.7	-1.1	-1.0
Natural gas	3.5	4.1	11.9	12.9	14.2	15.4	16.3	17.0	10.4	8.9	22.9	26.3	29.8	33.3	36.8	40.3	5.0	1.7	1.8	1.0	1.5

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040									1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	36.0	36.1	36.0	37.4	38.7	40.2	41.7	43.3									0.0	0.7	0.7	0.8	0.7
Coal	36.1	36.4	35.2	36.2	37.2	38.2	39.2	40.2									-0.1	0.6	0.5	0.5	0.5
Oil	32.3	29.2	42.9	42.9	42.9	42.9	42.9	42.9									1.1	0.0	0.0	0.0	0.0
Natural gas	35.6	34.4	38.0	39.9	41.9	43.9	45.8	47.8									0.3	1.0	0.9	0.9	0.9

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	70.3	83.9	98.8	95.4	92.2	88.8	84.6	80.0	100	100	100	100	100	100	100	100	1.4	-0.7	-0.7	-1.0	-0.8
Coal	37.9	46.6	46.3	41.9	38.8	35.8	32.6	29.3	54.0	55.5	46.9	44.0	42.1	40.4	38.6	36.7	0.8	-2.0	-1.6	-2.0	-1.8
Oil	23.2	25.2	32.3	32.3	31.3	29.9	28.3	26.6	33.0	30.0	32.7	33.8	33.9	33.7	33.4	33.3	1.3	-0.1	-0.8	-1.1	-0.8
Natural gas	9.2	12.1	20.1	21.2	22.1	23.0	23.6	24.0	13.1	14.5	20.4	22.2	24.0	25.9	28.0	30.0	3.2	1.0	0.8	0.4	0.7

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	636	881	1,355	1,561	1,782	2,016	2,260	2,510	3.1	2.9	2.6	2.2	2.5
Population (millions of people)	17	19	24	25	27	28	30	31	1.3	1.3	1.1	0.9	1.0
GDP per capita (thousands of 2010 US\$/person)	37.30	46.01	56.95	61.49	66.4	71.4	76.6	81.6	1.7	1.5	1.5	1.3	1.4
Primary energy consumption per capita (toe/person)	5.06	5.38	5.27	4.94	4.66	4.40	4.14	3.90	0.2	-1.3	-1.2	-1.2	-1.2
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	136	117	92	80	70	62	54	48	-1.5	-2.8	-2.6	-2.5	-2.6
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	89	79	60	54	47	42	38	34	-1.6	-2.3	-2.4	-2.2	-2.3
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	110	95	73	61	52	44	37	32	-1.6	-3.5	-3.2	-3.2	-3.3
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.81	0.81	0.79	0.76	0.74	0.72	0.69	0.67	-0.1	-0.7	-0.6	-0.7	-0.7
Automobile ownership volume (millions of vehicles)	10	12	17	19	20	22	23	24	2.3	1.7	1.4	1.2	1.4
Automobile ownership volume per capita (vehicles per person)	0.573	0.642	0.721	0.734	0.748	0.762	0.776	0.789	0.9	0.4	0.4	0.3	0.4

Brunei Darussalam (BAU)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.70	2.40	3.26	6.18	7.32	8.00	9.01	9.39	100	100	100	100	100	100	100	100	2.6	13.7	2.6	1.6	4.3
Coal	0.00	0.00	0.00	0.16	0.70	0.70	0.70	0.70	0.0	0.0	0.0	2.6	9.5	8.7	7.7	7.4	-	-	15.8	0.0	-
Oil	0.00	0.50	0.19	0.97	1.16	1.43	1.83	1.84	0.0	20.8	5.7	15.8	15.8	17.9	20.4	19.6	-	39.2	3.9	2.5	9.6
Natural gas	1.70	1.90	3.07	5.04	5.47	5.87	6.48	6.86	100.0	79.2	94.3	81.6	74.7	73.4	71.9	73.0	2.4	10.4	1.5	1.6	3.3
Nuclear	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Geothermal	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Biomass	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Solar, Wind, Ocean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	10.2	0.0	0.0	2.0
Biofuels									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.36	0.56	0.80	3.15	3.65	4.04	4.62	4.78	100	100	100	100	100	100	100	100	3.3	31.4	2.5	1.7	7.4
Industry	0.06	0.07	0.20	0.32	0.66	0.84	1.13	1.13	16.7	12.5	25.1	10.0	18.1	20.8	24.5	23.7	5.0	9.3	10.3	3.0	7.1
Transportation	0.19	0.26	0.31	0.76	0.82	0.89	0.96	0.96	52.8	46.4	38.2	24.2	22.5	21.9	20.7	20.1	1.9	19.9	1.5	0.8	4.7
Others	0.09	0.21	0.28	0.33	0.43	0.57	0.79	0.94	25.0	37.5	34.3	10.6	11.7	14.1	17.1	19.7	4.6	3.8	5.6	5.1	5.0
Non-energy	0.02	0.02	0.02	1.74	1.74	1.74	1.74	1.75	5.6	3.6	2.4	55.3	47.8	43.1	37.7	36.5	-0.2	146.8	0.0	0.0	19.8
Total	0.35	0.57	0.80	3.15	3.65	4.04	4.62	4.78	100	100	100	100	100	100	100	100	3.4	31.4	2.5	1.7	7.4
Coal	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Oil	0.26	0.36	0.52	1.00	1.16	1.40	1.74	1.75	74.3	63.2	64.5	31.7	31.7	34.5	37.6	36.5	2.8	14.0	3.4	2.3	5.0
Natural gas	0.00	0.00	0.03	1.74	1.75	1.75	1.76	1.77	0.0	0.0	3.6	55.4	48.0	43.4	38.1	37.0	-	127.3	0.1	0.1	17.9
Electricity	0.09	0.21	0.26	0.41	0.74	0.89	1.12	1.26	25.7	36.8	31.9	12.9	20.3	22.1	24.3	26.5	4.3	9.6	8.2	3.6	6.6
Heat	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.17	2.54	3.78	5.83	10.98	12.93	15.94	17.74	100	100	100	100	100	100	100	100	4.8	9.1	8.3	3.2	6.4
Coal	0.00	0.00	0.00	0.84	3.64	3.64	3.64	3.64	0.0	0.0	0.0	14.4	33.2	28.2	22.9	20.5	-	-	15.8	0.0	-
Oil	0.01	0.02	0.04	0.03	0.03	0.03	0.03	0.03	0.9	0.8	1.0	0.5	0.2	0.2	0.2	0.2	5.5	-5.9	-0.6	0.6	-1.2
Natural gas	1.16	2.52	3.74	4.96	7.31	9.26	12.26	14.06	99.1	99.2	99.0	85.1	66.6	71.6	77.0	79.3	4.8	5.8	6.4	4.3	5.4
Nuclear	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Geothermal	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	10.2	0.0	0.0	2.0

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.46	0.87	1.23	1.68	2.63	3.01	3.59	3.96	100	100	100	100	100	100	100	100	4.0	6.5	6.0	2.8	4.8
Coal	0.00	0.00	0.00	0.16	0.70	0.70	0.70	0.70	0.0	0.0	0.0	9.5	26.5	23.1	19.4	17.6	-	-	15.8	0.0	-
Oil	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0	1.1	0.9	0.5	0.3	0.3	0.2	0.2	-	-5.9	-0.6	0.6	-1.2
Natural gas	0.46	0.86	1.22	1.51	1.92	2.31	2.89	3.26	100.0	98.9	99.1	90.0	73.2	76.7	80.4	82.2	4.0	4.5	4.3	3.5	4.0

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	22	25	26	30	36	37	38	39									0.8	2.4	2.2	0.4	1.5
Coal	-	-	-	45	45	45	45	45									-	-	0.0	0.0	-
Oil	-	17	30	30	30	30	30	30									-	0.0	0.0	0.0	0.0
Natural gas	22	25	26	28	33	34	36	37									0.8	1.3	2.0	0.7	1.4

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.9	1.4	6.7	9.4	10.9	12.6	15.0	16.0	100	100	100	100	100	100	100	100	8.3	7.2	2.9	2.4	3.6
Coal			0.0	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	6.9	5.9	5.1	4.3	4.1	-	-	0.0	0.0	-
Oil	0.2	0.5	1.6	3.0	3.5	4.3	5.3	5.3	22.2	35.7	23.6	32.2	32.3	33.8	35.3	33.4	8.6	14.1	3.4	2.3	5.0
Natural gas	0.7	0.9	5.1	5.8	6.7	7.7	9.1	10.0	77.8	64.3	76.4	60.9	61.8	61.0	60.4	62.5	8.3	2.4	2.9	2.6	2.7

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	6.9	8.6	13.9	17.6	25.5	36.4	51.8	54.5	2.8	4.9	7.5	4.1	5.6
Population (millions of people)	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	1.3	2.1	2.3	2.3	2.3
GDP per capita (thousands of 2010 US\$/person)	23.0	28.7	33.3	38.09	49.3	62.7	79.7	74.9	1.5	2.7	5.1	1.8	3.3
Primary energy consumption per capita (toe/person)	5.7	8.0	7.8	13.35	14.13	13.79	13.86	12.90	1.3	11.3	0.3	-0.7	2.0
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	246	279	235	350	287	220	174	172	-0.2	8.4	-4.5	-2.4	-1.2
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	52	65	58	179	143	111	89	88	0.4	25.3	-4.6	-2.4	1.7
CO ₂ emissions per unit of GDP (t-C/million 2010 US dollars)	130	163	480	535	427	346	291	293	5.4	2.2	-4.3	-1.7	-2.0
CO ₂ emissions per unit of primary energy consumption (t-C/toe)	0.5	0.6	2.0	1.53	1.49	1.57	1.67	1.70	5.6	-5.7	0.3	0.8	-0.7
Automobile ownership volume (millions of vehicles)									-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

Brunei Darussalam (APS)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.70	2.40	3.26	5.90	6.87	7.09	7.23	7.63	100	100	100	100	100	100	100	100	2.6	12.6	1.9	0.7	3.5
Coal	0.0	0.0	0.00	0.16	0.16	0.16	0.16	0.16	0.0	0.0	0.0	2.7	2.3	2.3	2.2	2.1	-	-	0.0	0.0	-
Oil	0.0	0.5	0.19	0.93	0.99	1.06	1.25	1.25	0.0	20.8	5.7	15.7	14.4	15.0	17.3	16.4	-	37.8	1.4	1.7	7.9
Natural gas	1.7	1.9	3.07	4.81	5.73	5.87	5.82	6.22	100.0	79.2	94.3	81.6	83.3	82.8	80.5	81.5	2.4	9.4	2.0	0.6	2.9
Nuclear	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Geothermal	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Biomass	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Solar, Wind, Ocean	0.0	0.0	0.00	0.02	0.03	0.05	0.07	0.07	0.0	0.0	0.0	0.3	0.5	0.6	1.0	1.0	-	194.7	8.8	5.1	30.9
Biofuels	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.36	0.56	0.80	3.06	3.42	3.54	3.71	3.86	100	100	100	100	100	100	100	100	3.3	30.7	1.5	0.9	6.5
Industry	0.1	0.1	0.20	0.29	0.63	0.76	0.94	0.94	16.7	12.5	25.1	9.5	18.3	21.6	25.3	24.3	5.0	7.7	10.1	2.1	6.3
Transportation	0.2	0.3	0.31	0.74	0.69	0.61	0.60	0.60	52.8	46.4	38.2	24.2	20.2	17.3	16.3	15.7	1.9	19.3	-1.9	-0.2	2.7
Others	0.1	0.2	0.28	0.29	0.36	0.42	0.42	0.57	25.0	37.5	34.3	9.4	10.6	11.9	11.3	14.8	4.6	0.9	3.8	3.1	3.0
Non-energy	0.0	0.0	0.02	1.74	1.74	1.74	1.74	1.74	5.6	3.6	2.4	56.8	50.9	49.2	47.0	45.2	-0.2	146.8	0.0	0.0	19.8
Total	0.35	0.57	0.80	3.06	3.42	3.54	3.71	3.86	100	100	100	100	100	100	100	100	3.4	30.7	1.5	0.9	6.5
Coal	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Oil	0.3	0.4	0.52	0.96	1.00	1.04	1.19	1.20	74.3	63.2	64.5	31.2	29.1	29.5	32.1	31.0	2.8	13.0	0.9	1.4	3.4
Natural gas	0.0	0.0	0.03	1.74	1.75	1.75	1.76	1.77	0.0	0.0	3.6	57.0	51.1	49.6	47.5	45.8	-	127.3	0.1	0.1	17.9
Electricity	0.1	0.2	0.26	0.36	0.68	0.74	0.75	0.89	25.7	36.8	31.9	11.8	19.8	20.9	20.4	23.2	4.3	7.2	7.4	1.9	5.1
Heat	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.17	2.54	3.78	5.37	10.28	11.10	11.28	13.08	100	100	100	100	100	100	100	100	4.8	7.3	7.5	1.7	5.1
Coal	0.0	0.0	0.00	0.84	0.84	0.84	0.84	0.84	0.0	0.0	0.0	15.7	8.2	7.6	7.5	6.4	-	-	0.0	0.0	-
Oil	0.0	0.0	0.04	0.02	0.02	0.02	0.02	0.02	0.9	0.8	1.0	0.4	0.2	0.2	0.2	0.2	5.5	-10.6	0.8	0.2	-1.8
Natural gas	1.2	2.5	3.74	4.29	9.07	9.71	9.57	11.36	99.1	99.2	99.0	79.8	88.2	87.5	84.8	86.8	4.8	2.8	8.5	1.6	4.5
Nuclear	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Geothermal	0.0	0.0							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.0	0.0	0.00	0.22	0.35	0.52	0.85	0.86	0.0	0.0	0.0	4.2	3.4	4.7	7.5	6.6	-	193.6	8.7	5.2	30.9

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.46	0.87	1.23	1.46	2.36	2.49	2.43	2.81	100	100	100	100	100	100	100	100	4.0	3.5	5.5	1.2	3.4
Coal	0.0	0.0	0.00	0.16	0.16	0.16	0.16	0.16	0.0	0.0	0.0	11.0	6.8	6.5	6.6	5.7	-	-	0.0	0.0	-
Oil	0.0	0.0	0.01	0.01	0.01	0.01	0.01	0.01	0.0	1.1	0.9	0.4	0.3	0.3	0.3	0.2	-	-10.6	0.8	0.2	-1.8
Natural gas	0.5	0.9	1.22	1.29	2.19	2.32	2.26	2.64	100.0	98.9	99.1	88.5	92.9	93.3	93.1	94.0	4.0	1.2	6.0	1.3	3.1

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040									1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	21.9	25.1	26.5	30.4	36.3	36.6	37.0	37.4									0.8	2.8	1.9	0.2	1.4
Coal	-	-	-	45.0	45.0	45.0	45.0	45.0									-	-	0.0	0.0	-
Oil	-	17.2	30.0	30.0	30.0	30.0	30.0	30.0									-	0.0	0.0	0.0	0.0
Natural gas	21.7	25.2	26.4	28.6	35.6	36.0	36.4	37.0									0.8	1.6	2.3	0.3	1.4

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.9	1.4	6.7	8.8	9.8	10.2	10.6	11.5	100	100	100	100	100	100	100	100	8.3	5.6	1.6	1.2	2.2
Coal	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	7.4	6.6	6.3	6.1	5.6	-	-	0.0	0.0	-
Oil	0.2	0.5	1.6	2.9	3.0	3.2	3.6	3.6	22.2	35.7	23.6	33.1	31.0	34.4	31.0	34.4	7.7	8.6	13.0	0.9	1.4
Natural gas	0.7	0.9	5.1	5.2	6.1	6.4	6.3	7.2	77.8	64.3	76.4	59.5	62.4	62.6	59.5	62.7	8.3	0.5	2.1	1.2	1.4

Energy and economic indicators

									AAGR(%)					
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
GDP (billions of 2010 US dollars)	6.9	8.6	13.9	17.6	25.5	36.4	51.8	54.5	2.8	4.9	7.5	4.1	5.6	
Population (millions of people)	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	1.3	2.1	2.3	2.3	2.3	
GDP per capita (thousands of 2010 US\$/person)	23.0	28.7	33.3	38.09	49.3	62.7	79.7	74.9	1.5	2.7	5.1	1.8	3.3	
Primary energy consumption per capita (toe/person)	5.7	8.0	7.8	12.75	13.26	12.22	11.12	10.49	1.3	10.3	-0.4	-1.5	1.2	
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	246	279	235	335	269	195	140	140	-0.2	7.4	-5.3	-3.3	-2.0	
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	52	65	58	174	134	97	72	71	0.4	24.6	-5.6	-3.1	0.8	
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	130	163	480	497	382	282	204	211	5.4	0.7	-5.5	-2.8	-3.2	
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.5	0.6	2.0	1.49	1.42	1.44	1.46	1.51	5.6	-6.2	-0.3	0.4	-1.2	
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-	
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-	

Cambodia (BAU)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	2.84	3.42	7.04	8.94	9.90	11.24	12.86	15.24	100	100	100	100	100	100	100	100	3.7	4.9	2.3	3.1	3.1
Coal	0.00	0.00	0.59	1.23	1.44	1.66	2.24	2.97	0.0	0.0	8.3	13.7	14.5	14.8	17.4	19.5	-	16.0	3.0	6.0	6.7
Oil	0.51	0.70	1.93	2.65	3.17	3.64	4.14	4.75	18.0	20.5	27.4	29.7	32.0	32.4	32.2	31.2	5.4	6.6	3.2	2.7	3.7
Natural gas	-	-	0.00	0.00	0.00	0.43	0.56	1.25	0.0	0.0	0.0	0.0	0.0	3.9	4.4	8.2	-	-	-	11.2	-
Nuclear	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.00	0.00	0.17	0.49	0.67	0.82	1.12	1.51	0.0	0.0	2.4	5.5	6.8	7.3	8.7	9.9	-	23.5	5.2	6.2	9.1
Geothermal	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	2.33	2.72	4.35	4.57	4.62	4.69	4.80	4.76	82.0	79.5	61.8	51.1	46.7	41.7	37.3	31.2	2.5	1.0	0.3	0.2	0.4
Biomass	2.33	2.72	4.22	4.41	4.46	4.53	4.62	4.57	82.0	79.5	60.0	49.3	45.1	40.3	35.9	30.0	2.4	0.9	0.3	0.1	0.3
Solar, Wind, Ocean	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	-	33.7	-5.0	46.5	21.0
Biofuels	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	0.00	0.00	0.13	0.16	0.16	0.16	0.16	0.16	0.0	0.0	1.9	1.8	1.6	1.4	1.2	1.0	-	3.6	0.0	0.0	0.7

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	2.543	2.950	5.925	7.350	8.196	9.123	10.272	11.770	100	100	100	100	100	100	100	100	3.4	4.4	2.2	2.6	2.8
Industry	0.44	0.61	1.03	1.14	1.25	1.45	1.80	2.41	17.2	20.7	17.4	15.5	15.3	15.9	17.5	20.5	3.5	2.0	2.5	5.2	3.5
Transportation	0.38	0.43	1.39	1.91	2.29	2.66	3.08	3.59	15.0	14.6	23.5	26.0	27.9	29.2	29.9	30.5	5.3	6.5	3.4	3.0	3.9
Others	1.72	1.90	3.45	4.25	4.59	4.94	5.32	5.67	67.5	64.4	58.3	57.8	56.1	54.2	51.8	48.1	2.8	4.2	1.5	1.4	2.0
Non-energy	0.01	0.01	0.05	0.05	0.06	0.07	0.08	0.10	0.3	0.3	0.8	0.7	0.7	0.7	0.8	0.9	7.8	3.3	2.3	4.0	3.2
Total	2.54	2.95	5.93	7.35	8.20	9.12	10.27	11.77	100	100	100	100	100	100	100	100	3.4	4.4	2.2	2.6	2.8
Coal	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	-	2.0	2.0	2.0	2.0
Oil	0.44	0.54	1.87	2.65	3.17	3.64	4.14	4.75	17.3	18.1	31.5	36.1	38.6	39.9	40.3	40.3	6.0	7.3	3.2	2.7	3.8
Natural gas	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	0.01	0.03	0.43	1.01	1.29	1.70	2.30	3.24	0.4	1.0	7.2	13.8	15.7	18.6	22.4	27.6	15.8	18.8	5.3	6.7	8.4
Heat	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	2.09	2.39	3.62	3.67	3.72	3.77	3.81	3.76	82.3	80.8	61.1	50.0	45.4	41.3	37.1	31.9	2.2	0.3	0.3	0.0	0.2

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.20	0.45	4.40	10.61	14.03	19.05	26.57	38.20	100	100	100	100	100	100	100	100	13.2	19.3	6.0	7.2	9.0
Coal	0.00	0.00	2.13	4.52	5.95	6.87	9.82	13.04	0.0	0.0	48.4	42.6	42.4	36.1	37.0	34.1	-	16.3	4.3	6.6	7.5
Oil	0.20	0.45	0.23	0.00	0.00	0.00	0.00	0.00	100.0	100.0	5.2	0.0	0.0	0.0	0.0	0.0	0.6	-100.0	-	-	-100.0
Natural gas	0.00	0.00	0.00	0.00	0.00	0.00	2.42	3.15	0.0	0.0	0.0	0.0	0.0	12.7	11.8	18.3	-	-	-	11.2	-
Nuclear	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.00	0.00	2.00	5.74	7.83	9.55	13.05	17.51	0.0	0.0	45.5	54.1	55.8	50.1	49.1	45.8	-	23.5	5.2	6.2	9.1
Geothermal	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.00	0.00	0.04	0.34	0.26	0.21	0.56	0.65	0.0	0.0	0.9	3.2	1.8	1.1	2.1	1.7	-	53.1	-5.0	12.2	11.7

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.10	0.09	0.63	1.22	1.42	2.08	2.79	4.20	100	100	100	100	100	100	100	100	7.7	13.9	5.5	7.3	7.9
Coal	0.00	0.00	0.57	1.22	1.42	1.64	2.22	2.95	0.0	0.0	90.5	100.0	100.0	99.1	79.8	70.2	-	16.2	3.1	6.0	6.8
Oil	0.10	0.09	0.06	0.00	0.00	0.00	0.00	0.00	100.0	100.0	9.5	0.0	0.0	0.0	0.0	0.0	-2.0	-100.0	-	-	-100.0
Natural gas	-	-	0.00	0.00	0.00	0.00	0.43	0.56	0.0	0.0	0.0	0.0	0.0	0.0	20.9	20.2	29.8	-	-	-	11.2

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	17.2	43.0	31.9	32.0	36.0	38.5	40.0	41.0									2.5	0.0	1.9	0.6	1.0
Coal	17.2	43.0	31.9	32.0	36.0	38.0	38.0										-	0.1	1.2	0.5	0.7
Oil	-	-	43.0	32.5	-	-	-	-									2.6	-	-	-	-
Natural gas	-	-	-	-	-	48.0	48.0	48.0									-	-	-	0.0	-

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.40	0.50	2.02	3.27	3.90	4.78	5.89	7.60	100	100	100	100	100	100	100	100	6.7	10.1	3.9	4.7	5.4
Coal	0.00	0.00	0.63	1.33	1.56	1.80	2.44	3.24	0.0	0.0	31.2	40.8	40.0	37.7	41.5	42.7	-	16.2	3.1	6.0	6.8
Oil	0.40	0.50	1.39	1.94	2.34	2.70	3.08	3.55	100.0	100.0	68.8	59.2	60.0	56.5	52.4	46.8	5.1	6.9	3.4	2.8	3.8
Natural gas	0.00	0.00	0.00	0.00	0.00	0.28	0.36	0.80	0.0	0.0	0.0	0.0	0.0	5.8	6.1	10.6	-	-	-	11.2	-

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	4	5	15.9	20.8	27.2	35.5	46.4	60.6	7.6	5.5	5.5	5.5	5.5
Population (millions of people)	9	12	15.5	16.7	18.0	19.4	20.9	22.5	2.8	1.5	1.5	1.5	1.5
GDP per capita (thousands of 2010 US\$/person)	0.4	0.4	1.0	1.24	1.5	1.8	2.2	2.7	4.7	3.9	3.9	3.9	3.9
Primary energy consumption per capita (toe/person)	0.3	0.3	0.5	0.53	0.55	0.58	0.62	0.68	1.8	3.4	0.8	1.6	1.6
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	775	657	442	430	364	316	277	251	-2.8	-0.6	-3.0	-2.3	-2.2
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	695	567	373	354	302	257	221	194	-3.1	-1.0	-3.1	-2.8	-2.6
CO ₂ emissions per unit of GDP (t-C/million 2010 US dollars)	108	96	127	158	143	135	127	125	0.8	4.4	-1.6	-0.7	-0.1
CO ₂ emissions per unit of primary energy consumption (t-C/toe)	0.1	0.1	0.3	0.37	0.39	0.43	0.46	0.50	3.7	5.0	1.5	1.6	2.2
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

Cambodia (APS)

Primary energy supply

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	2.84	3.42	7.04	8.54	9.55	10.08	10.76	13.04	100	100	100	100	100	100	100	100	3.7	4.0	1.7	2.6
Coal	0.00	0.00	0.59	0.88	1.22	1.14	1.10	2.49	0.0	0.0	8.3	10.3	12.7	11.3	10.2	19.1	-	8.6	2.6	8.1
Oil	0.51	0.70	1.93	2.55	3.23	3.54	3.83	4.35	18.0	20.5	27.4	29.9	33.9	35.1	35.6	33.4	5.4	5.8	3.3	2.1
Natural gas	0.00	0.00	0.00	0.20	0.17	0.14	0.15	0.19	0.0	0.0	0.0	2.3	1.8	1.4	1.4	1.4	-	-	-3.2	2.8
Nuclear	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Hydro	0.00	0.00	0.17	0.35	0.31	0.53	0.83	0.93	0.0	0.0	2.4	4.1	3.3	5.3	7.7	7.1	-	15.5	4.2	5.7
Geothermal	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Others	2.33	2.72	4.35	4.55	4.62	4.73	4.86	5.09	82.0	79.5	61.8	53.3	48.3	46.9	45.1	39.0	2.5	0.9	0.4	0.7
Biomass	2.33	2.72	4.22	4.30	4.24	4.23	4.23	4.32	82.0	79.5	60.0	50.3	44.4	42.0	39.3	33.1	2.4	0.4	-0.2	0.2
Solar, Wind, Ocean	0.00	0.00	0.00	0.01	0.03	0.05	0.07	0.09	0.0	0.0	0.0	0.1	0.4	0.5	0.6	0.7	-	107.2	17.3	6.7
Biofuels	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Electricity	0.00	0.00	0.13	0.24	0.34	0.45	0.56	0.68	0.0	0.0	1.9	2.9	3.5	4.5	5.2	5.2	-	13.3	6.3	4.1

Final energy consumption

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	2.54	2.95	5.93	7.08	7.59	8.11	8.75	10.02	100	100	100	100	100	100	100	100	3.4	3.6	1.4	2.1
Industry	0.44	0.61	1.03	1.10	1.16	1.29	1.53	2.05	17.2	20.7	17.4	15.5	15.3	15.9	17.5	20.5	3.5	1.2	1.6	4.8
Transportation	0.38	0.43	1.39	1.84	2.12	2.36	2.61	3.05	15.0	14.6	23.5	26.0	27.9	29.2	29.9	30.4	5.3	5.7	2.5	2.6
Others	1.72	1.90	3.45	4.09	4.25	4.39	4.52	4.82	67.5	64.4	58.3	57.7	56.0	54.1	51.7	48.1	2.8	3.4	0.7	0.9
Non-energy	0.01	0.01	0.05	0.05	0.06	0.07	0.08	0.10	0.3	0.3	0.8	0.8	0.8	0.8	0.9	1.0	7.8	3.3	2.3	4.0
Total	2.54	2.95	5.93	7.08	7.59	8.11	8.75	10.02	100	100	100	100	100	100	100	100	3.4	3.6	1.4	2.1
Coal	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	-	2.0	2.0	2.0
Oil	0.44	0.54	1.87	2.55	2.93	3.24	3.53	4.05	17.3	18.1	31.5	36.1	38.7	39.9	40.3	40.4	6.0	6.5	2.4	2.3
Natural gas	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Electricity	0.01	0.03	0.43	0.98	1.19	1.51	1.96	2.76	0.4	1.0	7.2	13.8	15.7	18.6	22.4	27.5	15.8	17.9	4.4	6.2
Heat	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Others	2.09	2.39	3.62	3.53	3.44	3.35	3.24	3.19	82.3	80.8	61.1	49.9	45.4	41.3	37.1	31.9	2.2	-0.5	-0.5	-0.5

Power generation output

	TWh								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	0.20	0.45	4.40	9.05	10.58	13.04	17.24	25.73	100	100	100	100	100	100	100	100	13.2	15.5	3.7	7.0
Coal	0.00	0.00	2.13	3.24	5.03	4.70	4.86	11.29	0.0	0.0	48.4	35.8	47.5	36.1	28.2	43.9	-	8.8	3.8	9.2
Oil	0.20	0.45	0.23	0.00	0.00	0.00	0.00	0.00	100.0	100.0	5.2	0.0	0.0	0.0	0.0	0.0	0.6	-100.0	-	-100.0
Natural gas	0.00	0.00	0.00	1.10	0.97	0.79	0.82	1.04	0.0	0.0	0.0	12.2	9.2	6.1	4.8	4.1	-	-3.2	2.8	-
Nuclear	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Hydro	0.00	0.00	2.00	4.11	3.61	6.19	9.69	10.79	0.0	0.0	45.5	45.4	34.2	47.4	56.2	41.9	-	15.5	4.2	5.7
Geothermal	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Others	0.00	0.00	0.04	0.60	0.97	1.36	1.87	2.61	0.0	0.0	0.9	6.6	9.2	10.4	10.9	10.1	-	70.8	8.6	6.7

Power generation input

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	0.10	0.09	0.63	1.07	1.37	1.27	1.22	2.65	100	100	100	100	100	100	100	100	7.7	11.0	1.7	7.7
Coal	0.00	0.00	0.57	0.87	1.20	1.12	1.08	2.47	0.0	0.0	90.5	81.5	87.4	88.8	88.0	93.0	-	8.7	2.6	8.2
Oil	0.10	0.09	0.06	0.00	0.00	0.00	0.00	0.00	100.0	100.0	9.5	0.0	0.0	0.0	0.0	0.0	-2.0	-100.0	-	-100.0
Natural gas	-	-	0.00	0.20	0.17	0.14	0.15	0.19	0.0	0.0	0.0	18.5	12.6	11.2	12.0	7.0	-	-	-3.2	2.8

Thermal efficiency

	%																AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	17.2	43.0	31.9	35.0	37.5	37.4	39.9	40.0									2.5	1.8	0.7	0.7
Coal			31.9	32.0	36.0	36.0	38.8	39.4										0.1	1.2	0.9
Oil	17.2	43.0	32.5	-	-	-	-	-										2.6	-	-
Natural gas	-	-	-	48.0	48.0	48.0	48.0	48.0										-	0.0	0.0

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	0.4	0.5	2.0	2.9	3.6	3.7	3.9	5.0	100	100	100	100	100	100	100	100	6.7	7.8	2.3	2.9
Coal	0.0	0.0	0.63	0.96	1.32	1.23	1.18	1.83	0.0	0.0	31.2	32.4	36.7	33.2	30.4	36.9	-	8.7	2.6	4.0
Oil	0.4	0.5	1.39	1.87	2.16	2.39	2.62	3.02	100.0	100.0	68.8	63.3	60.2	64.4	67.2	60.7	5.1	6.0	2.5	2.3
Natural gas	0.0	0.0	0.00	0.13	0.11	0.09	0.09	0.12	0.0	0.0	0.0	4.3	3.1	2.4	2.4	2.4	-	-	-3.2	2.8

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	3.7	5.2	15.9	20.8	27.2	35.5	46.4	60.6	7.6	5.5	5.5	5.5	5.5
Population (millions of people)	9.0	12.2	15.5	16.7	18.0	19.4	20.9	22.5	2.8	1.5	1.5	1.5	1.5
GDP per capita (thousands of 2010 US\$/person)	0.4	0.4	1.0	1.24	1.5	1.8	2.2	2.7	4.7	3.9	3.9	3.9	3.9
Primary energy consumption per capita (toe/person)	0.3	0.3	0.5	0.51	0.53	0.52	0.51	0.58	1.8	2.4	0.2	1.1	1.0
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	775	657	442	411	352	284	232	215	-2.8	-1.5	-3.6	-2.7	-2.8
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	695	567	373	340	279	228	188	165	-3.1	-1.8	-3.9	-3.2	-3.2
CO ₂ emissions per unit of GDP (t-C/million 2010 US dollars)	108	96	127	142	132	105	84	82	0.8	2.2	-3.0	-2.4	-1.7
CO ₂ emissions per unit of primary energy consumption (t-C/toe)	0.1	0.1	0.3	0.35	0.38	0.37	0.36	0.38	3.7	3.7	0.7	0.3	1.1
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

China (BAU)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	870.7	1,129.8	2,973.3	3,293.5	3,525.8	3,734.5	3,899.2	4,014.9	100	100	100	100	100	100	100	100	5.0	2.1	1.3	0.7	1.2
Coal	527.6	664.7	1,982.0	2,005.6	2,013.0	2,006.6	1,992.1	1,938.6	60.6	58.8	66.7	60.9	57.1	53.7	51.1	48.3	5.4	0.2	0.0	-0.3	-0.1
Oil	118.8	220.8	533.7	652.6	729.2	788.9	825.5	853.4	13.6	19.5	18.0	19.8	20.7	21.1	21.2	21.3	6.2	4.1	1.9	0.8	1.9
Natural gas	12.8	20.8	158.5	236.2	313.1	392.7	475.2	556.5	1.5	1.8	5.3	7.2	8.9	10.5	12.2	13.9	10.6	8.3	5.2	3.5	5.2
Nuclear	0.0	4.4	44.5	106.2	151.9	197.5	224.9	252.3	0.0	0.4	1.5	3.2	4.3	5.3	5.8	6.3	-	19.0	6.4	2.5	7.2
Hydro	10.9	19.1	95.8	107.9	113.5	118.5	123.0	125.6	1.3	1.7	3.2	3.3	3.2	3.2	3.2	3.1	9.1	2.4	0.9	0.6	1.1
Geothermal	0.0	1.7	5.1	6.0	6.6	7.3	8.0	8.6	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	-	3.3	2.1	1.6	2.1
Others	200.6	198.4	153.6	179.0	198.5	222.9	250.5	280.0	23.0	17.6	5.2	5.4	5.6	6.0	6.4	7.0	-1.1	3.1	2.2	2.3	2.4
Biomass	200.4	197.0	104.0	101.3	93.7	90.2	93.6	98.9	23.0	17.4	3.5	3.1	2.7	2.4	2.4	2.5	-2.6	-0.5	-1.2	0.9	-0.2
Solar, Wind, Ocean	0.0	1.0	41.2	66.9	92.2	118.0	139.6	161.1	0.0	0.1	1.4	2.0	2.6	3.2	3.6	4.0	33.0	10.2	5.8	3.2	5.6
Biofuels	0.0	1.1	9.5	11.7	13.6	15.8	18.2	21.0	0.0	0.1	0.3	0.4	0.4	0.4	0.5	0.5	-	4.3	3.0	2.9	3.2
Electricity	0.2	-0.7	-1.1	-1.0	-1.0	-1.0	-1.0	-1.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-207.9	-1.7	0.0	0.0	-0.3

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	654.3	781.2	1,905.7	2,133.7	2,286.6	2,421.5	2,524.1	2,602.0	100	100	100	100	100	100	100	100	4.4	2.3	1.3	0.7	1.3
Industry	233.9	299.0	966.1	1,001.9	1,016.9	1,026.8	1,027.1	1,016.6	35.7	38.3	50.7	47.0	44.5	42.4	40.7	39.1	5.8	0.7	0.2	-0.1	0.2
Transportation	33.5	87.3	298.6	403.4	473.0	524.1	556.6	581.1	5.1	11.2	15.7	18.9	20.7	21.6	22.1	22.3	9.2	6.2	2.7	1.0	2.7
Others	344.1	334.7	483.2	548.2	599.2	653.5	706.7	751.2	52.6	42.8	25.4	25.7	26.2	27.0	28.0	28.9	1.4	2.6	1.8	1.4	1.8
Non-energy	42.9	60.2	157.7	180.2	197.5	217.1	233.7	253.0	6.6	7.7	8.3	8.4	8.6	9.0	9.3	9.7	5.3	2.7	1.9	1.5	1.9
Total	654.3	781.2	1,905.7	2,133.7	2,286.6	2,421.5	2,524.1	2,602.0	100	100	100	100	100	100	100	100	4.4	2.3	1.3	0.7	1.3
Coal	308.2	274.5	700.8	697.6	678.3	656.7	625.9	588.0	47.1	35.1	36.8	32.7	29.7	27.1	24.8	22.6	3.3	-0.1	-0.6	-1.1	-0.7
Oil	84.6	180.4	480.4	592.1	667.6	723.8	759.0	786.6	12.9	23.1	25.2	27.8	29.2	29.9	30.1	30.2	7.2	4.3	2.0	0.8	2.0
Natural gas	8.9	12.4	105.4	144.0	178.6	212.7	245.2	277.2	1.4	1.6	5.5	6.7	7.8	8.8	9.7	10.7	10.4	6.4	4.0	2.7	3.9
Electricity	39.0	89.1	419.4	495.4	561.1	625.8	687.1	737.6	6.0	11.4	22.0	23.2	24.5	25.8	27.2	28.3	10.0	3.4	2.4	1.7	2.3
Heat	13.2	25.5	83.3	90.4	95.9	101.4	106.2	110.0	2.0	3.3	4.4	4.2	4.2	4.2	4.2	4.2	7.6	1.7	1.2	0.8	1.1
Others	200.4	199.3	116.4	114.2	105.0	101.0	100.6	102.5	30.6	25.5	6.1	5.4	4.6	4.2	4.0	3.9	-2.2	-0.4	-1.2	0.1	-0.5

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	621.3	1,355.7	5,844.2	6,890.9	7,781.0	8,638.0	9,427.9	10,054.5	100	100	100	100	100	100	100	100	9.4	3.4	2.3	1.5	2.2
Coal	441.3	1,060.4	4,109.0	4,345.4	4,540.1	4,690.2	4,858.6	4,889.0	71.0	78.2	70.3	63.1	58.3	54.3	51.5	48.6	9.3	1.1	0.8	0.4	0.7
Oil	50.4	47.3	9.7	9.6	9.3	8.8	8.2	7.2	8.1	3.5	0.2	0.1	0.1	0.1	0.1	0.1	-6.4	-0.2	-0.9	-1.9	-1.1
Natural gas	2.8	5.8	145.3	302.9	482.9	682.9	912.1	1,139.3	0.4	0.4	2.5	4.4	6.2	7.9	9.7	11.3	17.2	15.8	8.5	5.3	8.6
Nuclear	0.0	16.7	170.8	407.5	582.7	758.0	863.2	968.3	0.0	1.2	2.9	5.9	7.5	8.8	9.2	9.6	-	19.0	6.4	2.5	7.2
Hydro	126.7	222.4	1,114.5	1,254.3	1,320.3	1,378.0	1,430.7	1,460.2	20.4	16.4	19.1	18.2	17.0	16.0	15.2	14.5	9.1	2.4	0.9	0.6	1.1
Geothermal	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	14.3	4.5	1.4	5.1
Others	0.0	3.1	294.8	571.1	845.4	1,119.7	1,354.8	1,590.0	0.0	0.2	5.0	8.3	10.9	13.0	14.4	15.8	50.4	14.1	7.0	3.6	7.0

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	144.7	297.2	948.5	1,000.1	1,061.7	1,116.2	1,178.9	1,211.7	100	100	100	100	100	100	100	100	7.8	1.1	1.1	0.8	1.0
Coal	131.7	284.3	920.1	943.7	973.7	993.5	1,016.6	1,010.7	91.0	95.7	97.0	94.4	91.7	89.0	86.2	83.4	8.1	0.5	0.5	0.2	0.4
Oil	12.4	11.6	2.4	2.4	2.3	2.2	2.0	1.8	8.5	3.9	0.3	0.2	0.2	0.2	0.2	0.1	-6.4	-0.2	-0.9	-1.9	-1.1
Natural gas	0.6	1.3	26.1	54.0	85.7	120.6	160.3	199.2	0.4	0.4	2.7	5.4	8.1	10.8	13.6	16.4	16.2	15.7	8.4	5.1	8.5

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	29.4	32.2	38.7	40.1	40.8	41.5	42.2	42.8									1.1	0.7	0.3	0.3	0.4
Coal	28.8	32.1	38.4	39.6	40.1	40.6	41.1	41.6									1.2	0.6	0.2	0.2	0.3
Oil	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0									0.0	0.0	0.0	0.0	0.0
Natural gas	39.0	39.0	47.9	48.2	48.4	48.7	48.9	49.2									0.8	0.1	0.1	0.1	0.1

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	637.8	862.8	2,545.4	2,699.1	2,803.8	2,879.4	2,931.4	2,930.9	100	100	100	100	100	100	100	100	5.7	1.2	0.6	0.2	0.6
Coal	549.0	700.9	2,080.5	2,094.7	2,092.8	2,075.8	2,051.3	1,984.0	86.1	81.2	81.7	77.6	74.6	72.1	70.0	67.7	5.5	0.1	-0.1	-0.5	-0.2
Oil	83.5	151.7	369.7	459.9	517.5	559.5	583.5	598.7	13.1	17.6	14.5	17.0	18.5	19.4	19.9	20.4	6.1	4.5	2.0	0.7	1.9
Natural gas	5.3	10.2	95.2	144.5	193.5	244.1	296.7	348.2	0.8	1.2	3.7	5.4	6.9	8.5	10.1	11.9	12.3	8.7	5.4	3.6	5.3

China (APS)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	870.7	1,129.8	2,973.3	3,232.7	3,357.4	3,452.5	3,494.6	3,494.9	100	100	100	100	100	100	100	100	5.0	1.7	0.7	0.1	0.6
Coal	527.6	664.7	1,982.0	1,952.8	1,855.0	1,771.8	1,650.6	1,503.0	60.6	58.8	66.7	60.4	55.5	51.3	47.2	43.0	5.4	-0.3	-1.0	-1.6	-1.1
Oil	118.8	220.8	533.7	649.5	708.4	742.6	751.4	752.1	13.6	19.5	18.0	20.1	21.1	21.5	21.5	21.5	6.2	4.0	1.3	0.1	1.4
Natural gas	12.8	20.8	158.5	228.6	289.7	346.4	395.1	435.0	1.5	1.8	5.3	7.1	8.6	10.0	11.3	12.4	10.6	7.6	4.2	2.3	4.1
Nuclear	0.0	4.4	44.5	106.2	170.1	234.1	298.0	362.0	0.0	0.4	1.5	3.3	5.1	6.8	8.5	10.4	-	19.0	8.2	4.5	8.7
Hydro	10.9	19.1	95.8	108.4	115.2	121.6	127.6	131.7	1.3	1.7	3.2	3.4	3.4	3.5	3.7	3.8	9.1	2.5	1.1	0.8	1.3
Geothermal	0.0	1.7	5.1	6.2	6.5	7.5	8.3	9.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.3	-	4.2	1.8	2.0	2.4
Others	200.6	198.4	153.6	181.1	202.5	228.7	263.6	302.2	23.0	17.6	5.2	5.6	6.0	6.6	7.5	8.6	-1.1	3.3	2.4	2.8	2.7
Biomass	200.4	197.0	104.0	98.9	89.4	83.8	85.5	90.0	23.0	17.4	3.5	3.1	2.7	2.4	2.4	2.6	-2.6	-1.0	-1.6	0.7	-0.6
Solar, Wind, Ocean	0.0	1.0	41.2	70.0	98.2	126.4	155.0	183.1	0.0	0.1	1.4	2.2	2.9	3.7	4.4	5.2	33.0	11.2	6.1	3.8	6.2
Biofuels	0.0	1.1	9.5	13.1	15.9	19.5	24.1	30.0	0.0	0.1	0.3	0.4	0.5	0.6	0.7	0.9	-	6.7	4.1	4.4	4.7
Electricity	0.2	-0.7	-1.1	-1.0	-1.0	-1.0	-1.0	-1.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-207.9	-1.7	0.0	0.0	-0.3

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	654.3	781.2	1,905.7	2,097.3	2,201.3	2,278.4	2,318.8	2,334.7	100	100	100	100	100	100	100	100	4.4	1.9	0.8	0.2	0.8
Industry	233.9	299.0	966.1	977.9	970.2	959.4	938.7	906.0	35.7	38.3	50.7	46.6	44.1	42.1	40.5	38.8	5.8	0.2	-0.2	-0.6	-0.3
Transportation	33.5	87.3	298.6	398.3	455.8	488.2	501.5	509.6	5.1	11.2	15.7	19.0	20.7	21.4	21.6	21.8	9.2	5.9	2.1	0.4	2.2
Others	344.1	334.7	483.2	541.0	577.8	613.6	645.0	666.2	52.6	42.8	25.4	25.8	26.2	26.9	27.8	28.5	1.4	2.3	1.3	0.8	1.3
Non-energy	42.9	60.2	157.7	180.2	197.5	217.1	233.7	253.0	6.6	7.7	8.3	8.6	9.0	9.5	10.1	10.8	5.3	2.7	1.9	1.5	1.9
Total	654.3	781.2	1,905.7	2,097.3	2,201.3	2,278.4	2,318.8	2,334.7	100	100	100	100	100	100	100	100	4.4	1.9	0.8	0.2	0.8
Coal	308.2	274.5	700.8	687.2	660.0	631.2	593.1	548.0	47.1	35.1	36.8	32.8	30.0	27.7	25.6	23.5	3.3	-0.4	-0.8	-1.4	-1.0
Oil	84.6	180.4	480.4	589.4	648.7	681.5	691.3	693.6	12.9	23.1	25.2	28.1	29.5	29.9	29.8	29.7	7.2	4.2	1.5	0.2	1.5
Natural gas	8.9	12.4	105.4	140.2	169.1	195.0	217.4	237.5	1.4	1.6	5.5	6.7	7.7	8.6	9.4	10.2	10.4	5.9	3.4	2.0	3.3
Electricity	39.0	89.1	419.4	486.4	538.1	588.4	634.3	669.8	6.0	11.4	22.0	23.2	24.4	25.8	27.4	28.7	10.0	3.0	1.9	1.3	1.9
Heat	13.2	25.5	83.3	88.0	91.4	94.5	96.5	97.1	2.0	3.3	4.4	4.2	4.2	4.1	4.2	4.2	7.6	1.1	0.7	0.3	0.6
Others	200.4	199.3	116.4	106.1	94.0	87.7	86.1	88.6	30.6	25.5	6.1	5.1	4.3	3.9	3.7	3.8	-2.2	-1.8	-1.9	0.1	-1.1

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	621.3	1,355.7	5,844.2	6,766.3	7,461.5	8,121.6	8,704.3	9,129.6	100	100	100	100	100	100	100	100	9.4	3.0	1.8	1.2	1.8
Coal	441.3	1,060.4	4,109.0	4,167.4	4,077.7	3,958.8	3,764.6	3,465.5	71.0	78.2	70.3	61.6	54.6	48.7	43.2	38.0	9.3	0.3	-0.5	-1.3	-0.7
Oil	50.4	47.3	9.7	9.2	8.3	7.4	6.3	5.1	8.1	3.5	0.2	0.1	0.1	0.1	0.1	0.1	-6.4	-1.0	-2.1	-3.6	-2.5
Natural gas	2.8	5.8	145.3	290.5	433.7	576.4	706.7	807.6	0.4	0.4	2.5	4.3	5.8	7.1	8.1	8.8	17.2	14.9	7.1	3.4	7.1
Nuclear	0.0	16.7	170.8	407.5	652.8	898.2	1,143.6	1,388.9	0.0	1.2	2.9	6.0	8.7	11.1	13.1	15.2	-	19.0	8.2	4.5	8.7
Hydro	126.7	222.4	1,114.5	1,260.9	1,339.6	1,413.5	1,483.9	1,531.2	20.4	16.4	19.1	18.6	18.0	17.4	17.0	16.8	9.1	2.5	1.1	0.8	1.3
Geothermal	0.1	0.1	0.1	0.3	0.4	0.5	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	19.1	4.8	2.6	6.6
Others	0.0	3.1	294.8	630.6	948.9	1,266.7	1,598.7	1,930.6	0.0	0.2	5.0	9.3	12.7	15.6	18.4	21.1	50.4	16.4	7.2	4.3	7.8

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	144.7	297.2	948.5	964.4	948.1	926.6	889.0	827.6	100	100	100	100	100	100	100	100	7.8	0.3	-0.4	-1.1	-0.5
Coal	131.7	284.3	920.1	910.9	870.5	825.9	767.9	691.5	91.0	95.7	97.0	94.4	91.8	89.1	86.4	83.6	8.1	-0.2	-1.0	-1.8	-1.1
Oil	12.4	11.6	2.4	2.2	2.0	1.8	1.5	1.2	8.5	3.9	0.3	0.2	0.2	0.2	0.2	0.1	-6.4	-1.3	-2.4	-3.8	-2.7
Natural gas	0.6	1.3	26.1	51.3	75.6	99.0	119.7	134.9	0.4	0.4	2.7	5.3	8.0	10.7	13.5	16.3	16.2	14.5	6.8	3.1	6.8

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	29.4	32.2	38.7	39.8	41.0	42.2	43.3	44.5									1.1	0.6	0.6	0.5	0.6
Coal	28.8	32.1	38.4	39.3	40.3	41.2	42.2	43.1									1.2	0.5	0.5	0.4	0.5
Oil	35.0	35.0	35.0	35.4	35.8	36.2	36.6	37.0									0.0	0.2	0.2	0.2	0.2
Natural gas	39.0	39.0	47.9	48.7	49.4	50.1	50.8	51.5									0.8	0.3	0.3	0.3	0.3

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	637.8	862.8	2,545.4	2,634.5	2,611.5	2,557.3	2,449.2	2,297.9	100	100	100	100	100	100	100	100	5.7	0.7	-0.3	-1.1	-0.4
Coal	549.0	700.9	2,080.5	2,037.6	1,933.0	1,822.2	1,682.4	1,513.6	86.1	81.2	81.7	77.3	74.0	71.3	68.7	65.9	5.5	-0.4	-1.1	-1.8	-1.3
Oil	83.5	151.7	369.7	457.3	500.0	520.7	521.5	513.9	13.1	17.6	14.5	17.4	19.1	20.4	21.3	22.4	6.1	4.3	1.3	-0.1	1.3
Natural gas	5.3	10.2	95.2	139.6	178.5	214.4	245.3	270.4	0.8	1.2	3.7	5.3	6.8	8.4	10.0	11.8	12.3	7.9	4.4	2.3	4.3

Energy and economic indicators

Share, %					AAGR (%)				
2010	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
100	100	100	100	100	4.2	4.7	4.3	3.6	4.1
7.3	50.5	53.3	55.0	55.8	5.8	5.9	5.5	4.1	5.0
8.8	23.7	23.8	24.4	25.6	5.0	4.3	4.3	4.4	4.3
7.6	6.2	6.7	7.2	7.6	5.8	7.0	6.0	4.9	5.8
4.6	1.9	2.1	2.1	2.1	7.5	12.4	7.1	3.4	6.6
5.0	1.4	1.3	1.3	1.2	2.7	6.2	3.1	2.4	3.4
1.5	0.0	0.0	0.0	0.0	-	-	-	-	-
0.0	16.2	12.8	10.0	7.7	1.7	1.3	-0.3	-1.5	-0.5
1.8	14.6	11.0	8.1	5.8	1.5	0.5	-1.1	-2.8	-1.5
1.2	1.5	1.7	1.8	1.8	27.8	21.0	8.0	4.5	9.1
0.1	0.1	0.1	0.1	0.0	-	-1.3	1.9	2.2	1.4
0.0	0.0	0.0	0.0	0.0	-10.2	121.5	0.0	0.0	17.2

Share, %					AAGR (%)				
2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
0.20	100	100	100	100	3.5	4.5	4.2	3.7	4.1
0.52	38.1	40.0	41.8	43.1	4.4	5.9	5.2	4.5	5.1
0.93	15.6	16.3	17.5	19.1	5.8	5.0	4.9	5.3	5.1
1.39	37.1	34.3	31.2	28.3	2.3	2.8	2.6	1.8	2.3
1.7	9.1	9.4	9.5	9.5	5.1	6.0	5.0	3.8	4.8
2.00	100	100	100	100	3.5	4.5	4.2	3.7	4.1
2.0	24.0	26.0	27.3	28.1	4.2	6.9	6.4	4.5	5.8
2.06	31.1	32.0	33.2	34.8	5.1	4.7	4.6	4.6	4.6
2.8	6.4	7.1	7.7	8.2	6.8	7.5	6.3	5.3	6.1
2.72	18.5	19.9	20.8	21.2	6.5	7.0	5.7	4.4	5.4
2.0	0.0	0.0	0.0	0.0	-	-	-	-	-
2.5	30.0	35.1	41.0	47.7	1.2	0.6	-1.2	-3.0	-1.5

Share, %					AAGR (%)				
2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
100	100	100	100	100	6.4	6.8	5.4	4.0	5.1
7.7	72.8	73.4	74.2	74.8	7.0	6.1	5.5	4.2	5.1
2.2	9.8	9.4	9.0	8.8	2.2	0.4	-5.1	-44.6	-22.6
7	4.7	4.7	4.8	4.8	8.0	6.0	5.4	4.1	5.0
5	3.9	4.1	4.0	3.9	7.5	12.4	7.1	3.4	6.6
7	8.6	7.8	7.2	6.7	2.7	6.2	3.1	2.4	3.4
0	0.0	0.0	0.0	0.0	-	-	-	-	-
2	0.2	0.6	0.8	0.8	36.4	16.0	7.1	4.2	7.6

Share, %					AAGR (%)				
2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
100	100	100	100	100	6.5	5.3	4.9	3.7	4.5
98.8	93.3	93.9	94.6	94.6	6.9	5.5	5.0	3.8	4.6
97.1	1.4	0.8	0.1	0.0	1.8	-0.8	-5.2	-44.6	-22.9
95.1	5.2	5.3	5.4	5.4	5.6	6.0	5.3	3.9	4.9

						AAGR (%)				
						1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
						0.3	0.6	0.4	0.4	0.4
						0.1	0.6	0.4	0.4	0.4
						0.4	1.2	0.2	0.2	0.4
						2.2	0.0	0.0	0.2	0.1

Share, %					AAGR (%)				
2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
100	100	100	100	100	5.6	5.5	5.2	4.2	4.9
76.6	73.9	74.6	74.5	73.6	5.8	5.9	5.5	4.1	5.0
47.7	23.3	22.5	22.5	23.3	5.0	4.2	4.3	4.6	4.4
1.7	2.8	2.9	3.0	3.1	5.8	6.7	5.9	5.1	5.8

			AAGR(%)				
2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
5.425	8.655	11.486	6.5	7.5	6.9	6.0	6.7
1.515	1.567	1.608	1.7	1.1	0.9	0.6	0.8
4.2	5.5	7.1	4.8	6.3	6.0	5.4	5.8
1.07	1.24	1.44	2.5	3.5	3.3	3.0	3.2
253	225	201	-2.2	-2.6	-2.5	-2.2	-2.4
168	150	136	-2.8	-2.8	-2.6	-2.1	-2.4
195	179	165	-0.9	-1.8	-1.6	-1.7	-1.7
0.77	0.80	0.82	1.3	0.8	0.9	0.6	0.8
131	192	284	9.5	7.5	8.1	8.0	8.0
0.086	0.122	0.176	7.7	6.4	7.1	7.4	7.1

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	Mtoe								Share, %								AAER (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	305.7	440.9	851.1	1,051.8	1,276.6	1,492.4	1,718.2	1,973.0	100	100	100	100	100	100	100	100	4.2	4.3	3.6	2.8	3.4
Coal	92.7	145.9	378.9	489.1	618.2	741.2	858.1	981.6	30.3	33.1	44.5	46.5	48.4	49.7	49.9	49.7	5.8	5.2	4.2	2.8	3.9
Oil	61.1	112.0	206.2	252.2	307.8	367.0	437.6	526.1	20.0	25.4	24.2	24.0	24.1	24.6	25.5	26.7	5.0	4.1	3.8	3.7	3.8
Natural gas	10.6	23.1	43.2	59.2	78.3	98.9	122.4	149.6	3.5	5.2	5.1	5.6	6.1	6.6	7.1	7.6	5.8	6.5	5.3	4.2	5.1
Nuclear	1.6	4.4	9.8	17.5	27.7	41.6	55.5	69.4	0.5	1.0	1.1	1.7	2.2	2.8	3.2	3.5	7.5	12.4	9.1	5.2	8.2
Hydro	6.2	6.4	11.9	16.9	20.5	24.1	27.7	31.3	2.0	1.5	1.4	1.6	1.6	1.6	1.6	1.6	2.7	7.3	3.6	2.6	4.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	133.6	149.1	201.2	216.9	224.0	219.7	217.0	215.1	43.7	33.8	23.6	20.6	17.6	14.7	12.6	10.9	1.7	1.5	0.1	-0.2	0.3
Biomass	133.5	148.8	195.5	202.6	197.6	180.4	159.5	136.7	43.7	33.7	23.0	19.3	15.5	12.1	9.3	6.9	1.5	0.7	-1.1	-2.7	-1.4
Solar, Wind, Ocean	0.0	0.2	4.8	12.7	24.1	35.5	51.1	66.8	0.0	0.0	0.6	1.2	1.9	2.4	3.0	3.4	27.8	21.3	10.8	6.5	11.1
Biofuels	0.0	0.1	0.82	1.2	2.0	3.3	6.0	11.1	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.6	-	8.1	10.7	12.8	11.0
Electricity	0.1	0.1	0.0	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-10.2	121.5	0.9	0.0	17.0

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	MVE								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	243.2	315.3	577.7	713.3	872.9	1,027.7	1,200.9	1,400.4	100	100	100	100	100	100	100	100	3.5	4.3	3.7	3.1	3.6
Industry	66.7	83.4	195.3	258.9	334.0	419.9	496.9	590.7	27.4	26.5	33.8	36.3	38.3	40.0	41.4	42.2	4.4	5.8	4.7	3.7	4.5
Transportation	20.8	31.9	86.0	108.4	134.4	164.5	204.5	257.4	8.6	10.1	14.9	15.2	15.4	16.0	17.0	18.4	5.8	4.7	4.3	4.6	4.5
Others	142.3	173.2	249.9	283.8	322.8	350.6	375.5	403.9	58.5	54.9	43.3	39.8	37.0	34.1	31.3	28.8	2.3	2.6	2.1	1.4	1.9
Non-energy	1.3	26.8	46.5	62.3	81.7	101.7	124.1	148.4	5.5	8.5	8.0	8.7	9.4	9.9	10.3	10.6	5.1	6.0	5.0	3.8	4.8
Total	243.2	315.3	577.7	713.3	872.9	1,027.7	1,200.9	1,400.4	100	100	100	100	100	100	100	100	3.5	4.3	3.7	3.1	3.6
Coal	38.6	34.5	108.2	150.0	209.9	267.7	327.7	390.3	15.9	10.9	18.7	21.0	24.0	26.0	27.3	27.9	4.2	6.7	6.0	3.8	5.3
Oil	50.2	94.4	174.4	217.8	271.4	329.3	398.7	482.1	20.6	29.9	30.2	30.5	31.1	32.0	33.2	34.4	5.1	4.6	4.2	3.9	4.2
Natural gas	5.6	9.7	28.9	41.5	57.0	74.4	95.1	119.0	2.3	3.1	5.0	5.8	6.5	7.2	7.9	8.5	6.8	7.5	6.0	4.8	5.8
Electricity	18.5	32.4	88.3	121.8	159.9	199.7	244.0	293.7	7.6	10.3	15.3	17.1	18.3	19.4	20.3	21.0	6.5	6.6	5.1	3.9	4.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	130.3	144.4	177.8	182.3	175.2	156.6	135.5	115.3	53.6	45.8	30.8	25.6	20.1	15.2	11.3	8.2	1.3	0.5	-1.5	-3.0	-1.7

[illegible]

	FY11									Share, %							AGG (%)					
	1990	2000	2015	2020	2025	2030	2035	2040	2045	1990	2000	2015	2020	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
Total	292.7	569.7	1,383.0	1,892.4	2,449.9	3,022.7	3,619.7	4,262.9	100	100	100	100	100	100	100	100	6.4	6.5	4.8	3.5	4.6	
Coal	19.6	390.2	1,041.5	1,352.3	1,679.3	2,012.1	2,326.3	2,674.4	65.5	68.5	75.3	71.5	68.5	66.6	64.3	62.7	7.0	5.4	4.1	2.9	3.8	
Natural Gas	13.3	29.2	23.0	25.7	27.7	29.7	31.7	33.7	0.0	4.5	5.1	1.2	0.8	0.4	0.4	0.0	2.6	-0.3	-6.3	-45.2	-23.5	
Nuclear	10.0	50.0	68.1	97.8	129.5	168.9	188.9	171.1	3.4	9.8	4.4	16.6	4.4	4.3	4.1	4.0	8.3	3.9	2.9	1.9	2.8	
Hydro	6.1	16.9	37.4	67.1	106.5	150.7	212.9	266.2	2.1	3.0	2.7	3.5	3.3	5.3	5.9	6.2	7.5	12.4	9.1	5.2	8.2	
Geothermal	71.7	74.5	138.1	196.4	238.2	280.1	321.9	363.7	24.5	13.1	10.0	10.4	9.7	9.3	8.9	8.5	2.5	7.2	7.3	3.6	2.6	4.0
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	
	0.0	3.0	75.0	166.1	298.5	429.6	608.6	787.5	0.0	0.5	5.4	8.8	12.2	14.2	16.8	18.5	36.4	17.2	10.0	6.2	9.9	

[illegible]

	Income								Share, %								AFR (%)				
	1990	2000	2005	2010	2015	2020	2025	2030	1990	2000	2005	2010	2015	2020	2025	2030	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	56.8	121.4	275.5	341.2	404.8	464.1	514.0	570.6	100	100	100	100	100	100	100	100	6.5	4.4	3.1	2.1	3.0
Coal	48.4	103.2	254.0	317.0	378.9	437.6	488.3	542.4	85.1	85.0	92.2	92.9	93.6	94.3	95.0	95.1	6.9	4.5	3.3	2.2	3.1
Oil	5.0	9.0	7.8	7.4	6.0	3.6	0.3	0.0	8.8	7.4	2.8	2.2	1.5	0.8	0.1	0.0	1.8	-1.1	-7.1	-45.6	-24.1
Natural gas	3.5	0.3	13.6	16.9	20.0	22.9	25.4	28.1	6.1	7.6	4.9	4.9	4.9	4.9	4.9	4.9	5.6	4.4	3.1	2.1	2.2

[illegible]

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040									1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	32.5	33.7	35.4	36.9	38.4	39.9	41.4	42.9									0.3	0.8	0.8	0.7	0.8
Coal	34.1	32.5	35.3	36.7	38.1	39.5	41.0	42.4									0.1	0.8	0.8	0.7	0.7
Oil	22.8	28.0	25.2	26.2	27.3	28.4	29.4	30.5									0.4	0.8	0.8	0.7	0.8
Natural gas	24.7	52.0	43.0	44.8	46.7	48.6	50.4	52.3									2.2	0.9	0.8	0.7	0.8

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	IMC								Share, %								AGGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	147.9	245.2	574.7	730.9	915.0	1,096.2	1,280.8	1,488.6	100	100	100	100	100	100	100	100	5.6	4.9	4.1	3.1	3.9
Coal	100.1	157.6	409.2	528.2	667.7	800.4	926.7	1,060.1	67.7	64.3	71.2	72.3	73.0	73.0	72.4	71.2	5.8	5.2	4.2	2.8	3.9
Oil	44.2	77.7	150.8	183.4	222.9	266.0	318.4	385.9	29.9	31.7	26.2	25.1	24.4	24.3	24.9	25.9	5.0	4.0	3.8	3.8	3.8
Natural gas	3.6	9.9	14.6	19.3	24.4	29.8	35.6	42.6	2.4	4.0	2.5	2.6	2.7	2.7	2.8	2.9	5.8	5.7	4.4	3.6	4.4

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									AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	470	809	2,288	3,282	4,710	6,425	8,655	11,486	6.5	7.5	6.9	6.0	6.7
Population (millions of people)	871	1,053	1,311	1,385	1,454	1,515	1,567	1,608	1.7	1.1	0.9	0.6	0.8
GDP per capita (thousands of 2010 US\$/person)	0.54	0.77	1.75	2.37	3.2	4.2	5.5	7.1	4.8	6.3	6.0	5.4	5.8
Primary energy consumption per capita (toe/person)	0.35	0.42	0.65	0.76	0.88	0.98	1.10	1.23	2.5	3.2	2.6	2.2	2.6
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	651	545	372	320	271	232	199	172	-2.2	-2.9	-3.2	-3.0	-3.0
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	517	390	252	217	185	160	139	122	-2.8	-3.0	-3.0	-2.7	-2.9
CO ₂ emissions per unit of GDP (t-C/million 2010 US dollars)	315	303	251	223	194	171	148	130	-0.9	-2.4	-2.6	-2.7	-2.6
CO ₂ emissions per unit of primary energy consumption (t-C/toe)	0.48	0.56	0.68	0.69	0.72	0.73	0.75	0.75	1.3	0.6	0.6	0.3	0.4
Automobile ownership volume (millions of vehicles)	4	9	42	60	91	131	192	284	9.5	7.5	8.1	8.0	8.0
Automobile ownership volume per capita (vehicles per person)	0.005	0.009	0.032	0.043	0.062	0.086	0.122	0.176	7.7	6.4	7.1	7.4	7.1

Indonesia (BAU)

Primary energy supply

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	98.62	154.77	229.46	337.80	410.03	478.58	571.54	671.41	100	100	100	100	100	100	100	100	3.4	8.0	3.5	3.4
Coal	3.55	12.01	46.41	84.65	105.99	141.89	174.66	217.96	3.6	7.8	20.2	25.1	25.8	29.6	30.6	32.5	10.8	12.8	5.3	4.4
Oil	33.35	57.86	67.70	133.75	168.40	193.36	210.79	234.40	33.8	37.4	29.5	39.6	41.1	40.4	36.9	34.9	2.9	14.6	3.8	1.9
Natural gas	15.80	26.54	40.23	47.83	55.72	64.17	82.73	111.41	16.0	17.1	17.5	14.2	13.6	13.4	14.5	16.6	3.8	3.5	3.0	5.7
Nuclear			0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Hydro	0.49	0.86	1.18	0.80	1.64	1.55	2.08	2.27	0.5	0.6	0.5	0.2	0.4	0.3	0.4	0.3	3.6	-7.5	6.8	3.9
Geothermal	1.93	8.37	17.28	9.46	14.81	13.66	30.18	32.97	2.0	5.4	7.5	2.8	3.6	2.9	5.3	4.9	9.2	-11.3	3.7	9.2
Others	43.50	49.12	56.66	61.31	63.46	63.95	71.10	72.40	44.1	31.7	24.7	18.2	15.5	13.4	12.4	10.8	1.1	1.6	0.4	1.2
Biomass	43.50	49.12	56.66	55.45	54.56	53.81	54.23	54.60	44.1	31.7	24.3	16.4	13.3	11.2	9.5	8.1	1.0	-0.1	-0.3	0.1
Solar, Wind, Ocean	-	-	0.00	0.03	0.05	0.05	0.19	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	67.8	4.8	14.5
Biofuels	-	-	0.99	5.75	8.86	10.09	16.68	17.59	0.0	0.0	0.4	1.7	2.2	2.1	2.9	2.6	-	42.0	5.8	5.7
Electricity	-	-	0.00	0.08	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	133.8	-100.0	-

Final energy consumption

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	79.817	120.322	162.772	252.265	306.720	373.205	412.712	476.771	100	100	100	100	100	100	100	100	2.9	9.2	3.5	2.9
Industry	18.09	30.65	41.55	59.09	72.52	91.63	117.66	150.60	22.7	25.5	25.5	23.4	23.6	25.7	28.5	31.6	3.4	7.3	4.5	5.1
Transportation	10.71	21.87	44.17	108.87	142.28	163.50	179.54	194.09	13.4	18.2	27.1	43.2	46.4	45.8	43.5	40.7	5.8	19.8	4.2	1.7
Others	43.66	58.01	69.86	75.88	81.44	88.85	98.67	110.80	54.7	48.2	42.9	30.1	26.6	24.9	23.9	23.2	1.9	1.7	1.6	2.2
Non-energy	7.35	9.80	7.19	8.43	10.48	13.23	16.84	21.28	9.2	8.1	4.4	3.3	3.4	3.7	4.1	4.5	-0.1	3.2	4.6	4.9
Total	79.82	120.32	162.77	252.27	306.72	373.21	412.71	476.77	100	100	100	100	100	100	100	100	2.9	9.2	3.5	2.9
Coal	2.13	4.65	9.60	13.56	17.56	24.06	33.45	45.63	2.7	3.9	5.9	5.4	5.7	6.7	8.1	9.6	6.2	7.1	5.9	6.6
Oil	27.24	49.01	56.19	119.97	153.99	179.60	196.64	219.88	34.1	40.7	34.5	47.6	50.2	50.3	47.6	46.1	2.9	16.4	4.1	2.0
Natural gas	6.02	11.55	24.24	31.31	37.20	44.41	53.34	64.13	7.5	9.6	14.9	12.4	12.1	12.4	12.9	13.5	5.7	5.2	3.6	3.7
Electricity	2.43	6.81	17.22	27.26	35.55	46.18	60.22	77.48	3.0	5.7	10.6	10.8	11.6	12.9	14.6	16.3	8.1	9.6	5.4	5.3
Heat									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Others	41.99	48.31	55.52	60.18	62.42	62.96	69.06	69.65	52.6	40.1	34.1	23.9	20.4	17.6	16.7	14.6	1.1	1.6	0.5	1.0

Power generation output

	TWh								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	32.67	93.33	233.33	357.09	454.25	577.40	752.99	968.73	100	100	100	100	100	100	100	100	8.2	8.9	4.9	5.3
Coal	9.77	34.00	130.51	264.51	334.19	452.14	558.28	681.30	29.9	36.4	55.9	74.1	73.6	78.3	74.1	70.3	10.9	15.2	5.5	4.2
Oil	15.33	18.34	19.65	13.04	15.00	12.69	14.06	15.36	46.9	19.7	8.4	3.7	3.3	2.2	1.9	1.6	1.0	-7.9	-0.3	1.9
Natural gas	0.73	26.09	58.89	64.07	76.46	85.71	134.19	220.00	2.2	28.0	25.2	17.9	16.8	14.8	17.8	22.7	19.2	1.7	3.0	9.9
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Hydro	5.71	10.02	13.74	9.29	19.09	17.99	24.17	26.41	17.5	10.7	5.9	2.6	4.2	3.1	3.2	2.7	3.6	-7.5	6.8	3.9
Geothermal	1.13	4.87	10.05	5.50	8.61	7.95	17.55	19.18	3.4	5.2	4.3	1.5	1.9	1.4	2.3	2.0	9.2	-11.3	3.7	9.2
Others	0.00	0.01	0.49	0.68	0.90	0.92	4.74	6.48	0.0	0.0	0.2	0.2	0.2	0.2	0.6	0.7	-	6.9	3.0	21.6

Power generation input

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	6.50	17.00	55.68	89.07	109.51	140.06	174.02	223.95	100	100	100	100	100	100	100	100	9.0	9.8	4.6	4.8
Coal	2.32	6.90	36.81	71.09	88.43	117.83	141.21	172.33	35.7	40.6	66.1	79.8	80.8	84.1	81.1	77.0	11.7	14.1	5.2	3.9
Oil	3.97	4.45	5.53	3.67	4.22	3.57	3.95	4.32	61.0	26.2	9.9	4.1	3.9	2.5	2.3	1.9	1.3	-7.9	-0.3	1.9
Natural gas	0.21	5.65	13.35	14.31	16.86	18.66	28.85	47.30	3.2	33.2	24.0	16.1	15.4	13.3	16.6	21.1	18.1	1.4	2.7	9.7

Thermal efficiency

	%																AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	34.2	39.7	32.3	33.0	33.4	33.8	34.9	35.2									-0.2	0.4	0.2	0.4
Coal	36.1	42.4	30.5	32.0	32.5	33.0	34.0	34.0									-0.7	1.0	0.3	0.3
Oil	33.2	35.4	30.6	30.6	30.6	30.6	30.6	30.6									-0.3	0.0	0.0	0.0
Natural gas	30.1	39.7	37.9	38.5	39.0	39.5	40.0	40.0									0.9	0.3	0.3	0.1

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	40.9	75.8	122.0	218.0	273.1	335.8	394.8	476.2	100	100	100	100	100	100	100	100	4.5	12.3	4.4	3.6
Coal	8.4	15.1	49.4	90.1	112.8	151.0	185.8	231.9	20.5	19.9	40.5	41.3	41.3	45.0	47.1	48.7	7.4	12.8	5.3	4.4
Oil	27.2	46.1	23.9	28.5	32.9	37.4	48.0	64.7	66.6	60.9	19.6	13.1	12.0	11.1	12.2	13.6	-0.5	3.6	2.8	5.6
Natural gas	5.3	14.6	48.7	99.4	127.5	147.4	161.0	179.5	12.9	19.2	40.0	45.6	46.7	43.9	40.8	37.7	9.3	15.3	4.0	2.0

Energy and economic indicators

									AAGR(%)					
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
GDP (billions of 2010 US dollars)	310	453	988	1,300	1,740	2,328	3,101	4,052	4.7	5.6	6.0	5.7	5.8	
Population (millions of people)	179	209	258	274	287	298	307	317	1.5	1.2	0.9	0.6	0.8	
GDP per capita (thousands of 2010 US\$/person)	1.7	2.2	3.8	4.75	6.1	7.8	10.1	12.8	3.2	4.4	5.1	5.0	4.9	
Primary energy consumption per capita (toe/person)	0.6	0.7	0.9	1.23	1.43	1.61	1.86	2.12	1.9	6.8	2.7	2.8	3.5	
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	318	341	232	260	236	206	184	166	-1.3	2.3	-2.3	-2.1	-1.3	
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	258	265	165	194	176	153	133	118	-1.8	3.3	-2.3	-2.6	-1.3	
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	132	167	123	168	157	144	127	118	-0.3	6.3	-1.5	-2.0	-0.2	
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.4	0.5	0.5	0.65	0.67	0.70	0.69	0.71	1.0	4.0	0.8	0.1	1.2	
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-	
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-	

Indonesia (APS)

Primary energy supply

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	99	155	229	302	362	421	500	567	100	100	100	100	100	100	100	100	3.4	5.6	3.4	3.0
Coal	4	12	46.41	46.17	52.91	66.86	82.27	107.09	3.6	7.8	20.2	15.3	14.6	15.9	16.5	18.9	10.8	-0.1	3.8	4.8
Oil	33	58	67.70	116.15	137.96	150.54	164.04	183.88	33.8	37.4	29.5	38.5	38.1	35.7	32.8	32.4	2.9	11.4	2.6	2.0
Natural gas	16	27	40.23	46.00	51.48	56.95	69.30	93.70	16.0	17.1	17.5	15.2	14.2	13.5	13.9	16.5	3.8	2.7	2.2	5.1
Nuclear	0	0	0.00	0.00	2.44	2.46	4.42	4.92	0.0	0.0	0.0	0.0	0.7	0.6	0.9	0.9	-	-	-	7.2
Hydro	0	1	1.18	2.07	3.12	4.35	5.42	6.04	0.5	0.6	0.5	0.7	0.9	1.0	1.1	1.1	3.6	11.9	7.7	3.3
Geothermal	2	8	17.28	29.25	47.31	70.27	83.23	77.29	2.0	5.4	7.5	9.7	13.1	16.7	16.7	13.6	19.2	11.1	9.2	1.0
Others	43	49	56.66	62.23	66.56	69.79	90.90	94.36	44.1	31.7	24.7	20.6	18.4	16.6	18.2	16.6	1.1	1.9	1.2	3.1
Biomass	43	49	55.66	57.45	59.75	62.42	78.33	81.06	44.1	31.7	24.3	19.0	16.5	14.8	15.7	14.3	1.0	0.6	0.8	2.6
Solar, Wind, Ocean	-	-	0.00	0.10	0.17	0.32	0.89	0.98	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	-	112.3	11.9	12.0
Biofuels	-	-	0.99	4.60	6.64	7.06	11.68	12.32	0.0	0.0	0.4	1.5	1.8	1.7	2.3	2.2	-	35.8	4.4	5.7
Electricity	-	-	0.00	0.08	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	133.8	-100.0	-

Final energy consumption

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	80	120	163	221	257	289	334	388	100	100	100	100	100	100	100	100	2.9	6.3	2.7	3.0
Industry	18	31	41.55	51.04	61.04	75.05	96.35	123.28	22.7	25.5	25.5	23.1	23.7	26.0	28.8	31.8	3.4	4.2	3.9	5.1
Transportation	11	22	44.17	88.36	108.89	117.93	130.24	141.79	13.4	18.2	27.1	40.0	42.3	40.8	38.9	36.6	5.8	14.9	2.9	1.9
Others	44	58	69.86	72.84	77.05	82.60	91.04	101.49	54.7	48.2	42.9	33.0	29.9	28.6	27.2	26.2	1.9	0.8	1.3	2.1
Non-energy	7	10	7.19	8.23	10.48	13.23	16.84	21.28	9.2	8.1	4.4	3.8	4.1	4.6	5.0	5.5	-0.1	3.2	4.6	4.9
Total	80	120	163	221	257	289	334	388	100	100	100	100	100	100	100	100	2.9	6.3	2.7	3.0
Coal	2.13	4.65	9.60	11.56	14.54	19.32	26.85	36.63	2.7	3.9	5.9	5.2	5.6	6.7	8.0	9.4	6.2	3.8	5.3	6.6
Oil	27.24	49.01	56.19	98.88	120.34	133.40	147.60	166.73	34.1	40.7	34.5	44.8	46.7	46.2	44.1	43.0	2.9	12.0	3.0	2.3
Natural gas	6.02	11.55	24.24	28.20	33.04	38.96	47.10	56.95	7.5	9.6	14.9	12.8	12.8	13.5	14.1	14.7	5.7	3.1	3.3	3.9
Electricity	2.43	6.81	17.22	23.87	30.22	38.08	49.65	63.86	3.0	5.7	10.6	10.8	11.7	13.2	14.8	16.5	8.1	6.7	4.8	5.3
Heat	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Others	41.99	48.31	55.52	58.16	59.32	59.04	63.27	63.68	52.6	40.1	34.1	26.4	23.0	20.4	18.9	16.4	1.1	0.9	0.1	0.8

Power generation output

	TWh								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	32.67	93.33	233.33	310.96	384.26	472.61	616.11	792.47	100	100	100	100	100	100	100	100	8.2	5.9	4.3	5.3
Coal	9.77	34.00	130.51	152.90	178.48	226.65	270.64	344.12	29.9	36.4	55.9	49.2	46.4	48.0	43.9	43.4	10.9	3.2	4.0	4.3
Oil	15.33	18.34	19.65	25.44	26.41	24.69	22.18	24.71	46.9	19.7	8.4	8.2	6.9	5.2	3.6	3.1	1.0	5.3	-0.3	0.0
Natural gas	0.73	26.09	58.89	83.37	89.74	94.31	124.00	210.71	2.2	28.0	25.2	26.8	23.4	20.0	20.1	26.6	19.2	7.2	1.2	8.4
Nuclear	0.00	0.00	0.00	0.00	9.38	9.43	16.94	18.88	0.0	0.0	0.0	0.0	2.4	2.0	2.8	2.4	-	-	-	7.2
Hydro	5.71	10.02	13.74	24.06	36.29	50.52	63.03	70.24	17.5	10.7	5.9	7.7	9.4	10.7	10.2	8.9	3.6	11.9	7.7	3.3
Geothermal	1.13	4.87	10.05	17.01	27.51	40.87	48.41	44.95	3.4	5.2	4.3	5.5	7.2	8.6	7.9	5.7	9.2	11.1	9.2	1.0
Others	0.00	0.01	0.49	8.18	16.45	26.14	70.90	78.84	0.0	0.0	0.2	2.6	4.3	5.5	11.5	9.9	-	75.7	12.3	11.7

Power generation input

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	6.50	17.00	55.68	57.34	62.58	71.38	83.32	114.19	100	100	100	100	100	100	100	100	9.0	0.6	2.2	4.8
Coal	2.32	6.90	36.61	34.60	38.37	47.54	55.42	70.46	35.7	40.6	66.1	60.3	61.3	66.6	66.5	61.7	11.7	-1.2	3.2	4.0
Oil	3.97	4.45	5.53	7.16	7.43	6.94	6.24	6.95	61.0	26.2	9.9	12.5	11.9	9.7	7.5	6.1	1.3	5.3	-0.3	0.0
Natural gas	0.21	5.65	13.35	15.59	16.78	16.90	21.66	36.78	3.2	33.2	24.0	27.2	26.8	23.7	26.0	32.2	18.1	3.1	0.8	8.1

Thermal efficiency

	%								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	34.2	39.7	32.3	39.2	40.5	41.6	43.0	43.6									-0.2	4.0	0.6	0.5
Coal	36.1	42.4	30.5	38.0	40.0	41.0	42.0	42.0									-0.7	4.5	0.8	0.2
Oil	32.2	35.4	30.6	30.6	30.6	30.6	30.6	30.6									-0.3	0.0	0.0	0.0
Natural gas	30.1	39.7	37.9	46.0	46.0	48.0	49.2	49.3									0.9	3.9	0.4	0.3

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	40.9	75.8	122.0	161.1	188.6	215.7	249.1	304.8	100	100	100	100	100	100	100	100	4.5	5.7	3.0	3.5
Coal	8.4	15.1	49.4	49.1	56.3	71.2	87.6	114.0	20.5	19.9	40.5	30.5	29.9	33.0	35.2	37.4	7.4	-0.1	3.8	4.8
Oil	27.2	46.1	23.9	27.1	29.9	32.4	39.0	53.0	66.6	60.9	19.6	16.8	15.8	15.0	15.7	17.4	-0.5	2.5	1.8	5.0
Natural gas	5.3	14.6	48.7	85.0	102.4	112.2	122.5	137.8	12.9	19.2	40.0	52.7	54.3	52.0	49.2	45.2	9.3	11.8	2.8	2.1

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	309.8	453.4	988.1	1,300	1,740	2,328	3,101	4,052	4.7	5.6	6.0	5.7	5.8
Population (millions of people)	178.6	208.9	258.2	273.6	287.0	298.1	307.5	317.1	1.5	1.2	0.9	0.6	0.8
GDP per capita (thousands of 2010 US\$/person)	1.7	2.2	3.8	4.75	6.1	7.8	10.1	12.8	3.2	4.4	5.1	5.0	4.9
Primary energy consumption per capita (toe/person)	0.6	0.7	0.9	1.10	1.26	1.41	1.62	1.79	1.9	4.4	2.5	2.4	2.8
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	318	341	232	232	208	181	161	140	-1.3	0.0	-2.5	-2.5	-2.0
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	258	265	165	170	148	124	108	96	-1.8	0.6	-3.1	-2.6	-2.1
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	132	167	123	124	108	93	80	75	-0.3	0.1	-2.9	-2.1	-2.0
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.4	0.5	0.5	0.53	0.52	0.51	0.50	0.54	1.0	0.1	-0.4	0.5	0.0
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

Japan (BAU)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	438.6	517.9	429.8	440.5	439.6	432.9	423.7	414.3	100	100	100	100	100	100	100	100	-0.1	0.5	-0.2	-0.4	-0.1
Coal	76.5	97.2	117.5	116.2	110.1	111.8	112.5	110.4	17.4	18.8	27.3	26.4	25.1	25.8	26.5	26.6	1.7	-0.2	-0.4	-0.1	-0.2
Oil	250.3	255.1	184.9	172.9	160.6	151.5	142.0	132.7	57.1	49.3	43.0	39.2	36.5	35.0	33.5	32.0	-1.2	-1.3	-1.3	-1.3	-1.3
Natural gas	44.2	65.7	100.0	98.8	95.4	98.4	100.4	99.9	10.1	12.7	23.3	22.4	21.7	22.7	23.7	24.1	3.3	-0.2	0.0	0.2	0.0
Nuclear	52.7	83.9	2.5	25.2	42.9	37.9	32.7	32.7	12.0	16.2	0.6	5.7	9.8	8.8	7.7	7.9	-11.5	59.3	4.1	-1.5	10.9
Hydro	7.5	7.3	7.3	7.3	7.6	7.9	8.0	8.1	1.7	1.4	1.7	1.7	1.7	1.8	1.9	2.0	-0.1	0.0	0.7	0.3	0.4
Geothermal	1.6	3.1	2.4	3.0	4.2	5.4	6.4	7.4	0.4	0.6	0.6	0.7	1.0	1.3	1.5	1.8	1.7	4.6	6.2	3.2	4.6
Others	5.9	5.7	15.3	17.1	18.7	20.1	21.7	23.1	1.3	1.1	3.5	3.9	4.3	4.6	5.1	5.6	3.9	2.3	1.6	1.4	1.7
Biomass	4.5	4.7	11.4	11.9	12.2	12.4	12.9	13.3	1.0	0.9	2.7	2.7	2.8	2.9	3.0	3.2	3.8	0.9	0.5	0.6	0.6
Solar, Wind, Ocean	1.4	0.9	3.9	4.8	5.9	6.9	8.0	9.0	0.3	0.2	0.9	1.1	1.3	1.6	1.9	2.2	4.2	4.7	3.7	2.7	3.5
Biofuels	0.0	0.0	0.0	0.4	0.7	0.7	0.8	0.8	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	-100.0	-	6.0	1.7	-
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	287.0	328.2	291.4	288.3	283.2	278.8	272.9	266.1	100	100	100	100	100	100	100	100	0.1	-0.2	-0.3	-0.5	-0.4
Industry	109.6	99.7	82.1	80.4	80.3	81.0	80.6	38.2	30.4	28.2	27.9	28.4	29.0	29.7	30.3	30.3	-1.1	-0.4	0.1	0.0	-0.1
Transportation	68.1	84.4	71.3	65.5	60.8	57.4	54.4	51.7	23.7	25.7	24.5	22.7	21.5	20.6	19.9	19.4	0.2	-1.7	-1.3	-1.0	-1.3
Others	75.7	102.7	98.8	103.9	104.0	102.6	100.0	96.8	26.4	31.3	33.9	36.0	36.7	36.8	36.6	36.4	1.1	1.0	-0.1	-0.6	-0.1
Non-energy	33.7	41.4	39.2	38.5	38.1	37.8	37.4	36.9	11.8	12.6	13.4	13.4	13.5	13.6	13.7	13.9	0.6	-0.3	-0.2	-0.2	-0.2
Total	287.0	328.2	291.4	288.3	283.2	278.8	272.9	266.1	100	100	100	100	100	100	100	100	0.1	-0.2	-0.3	-0.5	-0.4
Coal	30.5	24.4	23.6	22.9	22.6	22.4	21.9	21.3	10.6	7.4	8.1	8.0	8.0	8.0	8.0	8.0	-1.0	-0.6	-0.2	-0.5	-0.4
Oil	170.7	194.5	152.3	143.4	135.1	128.2	121.3	114.7	59.5	59.3	52.3	49.8	47.7	46.0	44.4	43.1	-0.5	-1.2	-1.1	-1.1	-1.1
Natural gas	15.2	21.7	29.5	31.5	32.7	33.6	34.1	34.3	5.3	6.6	10.1	10.9	11.5	12.1	12.5	12.9	2.7	1.3	0.7	0.2	0.6
Electricity	66.3	83.3	81.6	85.8	87.9	89.7	90.7	91.0	23.1	25.4	28.0	29.7	31.0	32.2	33.2	34.2	0.8	1.0	0.4	0.2	0.4
Heat	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.8	0.3	0.4	-1.0	-0.5
Others	4.1	3.8	3.8	4.1	4.4	4.3	4.4	4.3	1.4	1.2	1.3	1.4	1.5	1.6	1.6	1.6	-0.2	1.5	0.5	-0.1	0.4

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	872.6	1,088.1	1,035.3	1,087.5	1,113.8	1,135.9	1,147.7	1,151.7	100	100	100	100	100	100	100	100	0.7	1.0	0.4	0.1	0.1
Coal	117.7	233.8	343.2	329.4	310.1	325.6	337.4	337.4	13.5	21.5	33.2	30.3	27.8	28.7	29.4	29.3	4.4	-0.8	-0.1	0.4	-0.4
Oil	283.7	179.3	102.5	84.9	67.6	58.7	48.4	36.5	32.5	16.5	9.9	7.8	6.1	5.2	4.2	3.2	-4.0	-3.7	-3.6	-4.6	-4.0
Natural gas	170.6	253.6	409.8	390.7	365.4	381.3	392.6	390.4	19.6	23.3	39.6	35.9	32.8	33.6	34.2	33.9	3.6	-1.0	-0.2	0.2	-0.2
Nuclear	202.3	322.0	9.4	96.9	164.8	145.4	125.5	125.5	23.2	29.6	0.9	8.9	14.8	12.8	10.9	10.9	-11.5	59.3	4.1	-1.5	10.9
Hydro	86.9	85.2	85.2	85.0	88.9	91.5	93.2	94.2	10.0	7.8	8.2	7.8	8.0	8.1	8.1	8.2	-0.1	0.0	0.7	0.3	0.4
Geothermal	1.7	3.3	2.6	3.3	4.7	6.1	7.3	8.5	0.2	0.3	0.2	0.3	0.4	0.5	0.6	0.7	1.6	4.9	6.4	3.3	4.9
Others	9.6	10.7	82.5	97.3	112.4	127.4	143.4	159.3	1.1	1.0	8.0	8.9	10.1	11.2	12.5	13.8	9.0	3.4	2.7	2.3	2.7

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	117.9	132.8	161.6	151.8	138.3	140.0	140.5	136.3	100	100	100	100	100	100	100	100	1.3	-1.2	-0.8	-0.3	-0.7
Coal	25.2	48.5	69.6	66.0	61.0	62.7	64.0	63.0	21.4	36.5	43.1	43.5	44.1	44.8	45.5	46.2	4.2	-1.0	-0.5	0.0	-0.4
Oil	58.8	35.9	20.3	17.5	13.9	11.9	9.7	7.2	49.9	27.0	12.5	11.5	10.0	8.5	6.9	5.3	-4.2	-2.9	-3.8	-4.9	-4.1
Natural gas	33.9	48.5	71.8	68.3	63.4	65.4	66.9	66.1	28.7	36.5	44.4	45.0	45.9	46.7	47.6	48.5	3.0	-1.0	-0.4	0.1	-0.3

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	41.7	43.2	45.5	45.6	46.2	47.0	47.6	48.2									0.3	0.0	0.3	0.2	0.2
Coal	40.2	41.5	42.4	42.9	43.7	44.7	45.4	46.1									0.2	0.2	0.4	0.3	0.3
Oil	41.5	42.9	43.5	41.7	42.0	42.4	43.0	43.7									0.2	-0.9	0.2	0.3	0.0
Natural gas	43.3	45.0	49.1	49.2	49.5	50.1	50.5	50.7									0.5	0.1	0.2	0.1	0.1

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	292.1	325.9	312.9	301.3	282.6	278.9	273.4	263.3	100	100	100	100	100	100	100	100	0.3	-0.8	-0.8	-0.6	-0.7
Coal	82.0	104.5	126.5	125.1	118.5	120.3	121.1	118.8	28.1	32.1	40.4	41.5	41.9	43.1	44.3	45.1	1.7	-0.2	-0.4	-0.1	-0.3
Oil	182.0	179.4	122.5	113.0	103.2	95.8	88.2	80.8	62.3	55.0	39.2	37.5	36.5	34.3	32.3	30.7	-1.6	-1.6	-1.6	-1.7	-1.7
Natural gas	28.1	42.0	63.9	63.1	60.9	62.8	64.1	63.8	9.6	12.9	20.4	21.0	21.6	22.5	23.5	24.2	3.3	-0.2	0.0	0.1	0.0

Energy and economic indicators

																	AAGR(%)		
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Japan (APS)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	438.6	517.9	429.8	438.1	431.7	422.5	409.8	394.1	100	100	100	100	100	100	100	100	-0.1	0.4	-0.4	-0.7	-0.3
Coal	76.5	97.2	117.5	115.3	108.0	104.2	95.7	90.2	17.4	18.8	27.3	26.3	25.0	24.7	23.4	22.9	1.7	-0.4	-1.0	-0.4	-1.1
Oil	250.3	255.1	184.9	170.5	154.4	140.6	128.4	118.2	57.1	49.3	43.0	38.9	35.8	33.3	31.3	30.0	-1.2	-1.6	-1.9	-1.7	-1.8
Natural gas	44.2	65.7	100.0	95.0	87.5	82.9	82.4	84.0	10.1	12.7	23.3	21.7	20.3	19.6	20.1	21.3	3.3	-1.0	-1.4	0.1	-0.7
Nuclear	52.7	83.9	2.5	28.9	49.1	58.4	62.1	55.9	12.0	16.2	0.6	6.6	11.4	13.8	15.2	14.2	-11.5	63.6	7.3	-0.4	13.3
Hydro	7.5	7.3	7.3	7.3	7.6	7.9	8.0	8.1	1.7	1.4	1.7	1.7	1.8	1.9	2.0	2.1	-0.1	0.0	0.7	0.3	0.4
Geothermal	1.6	3.1	2.4	3.7	5.2	6.7	8.3	9.9	0.4	0.6	0.6	0.8	1.2	1.6	2.0	2.5	1.7	9.2	6.1	4.0	5.9
Others	5.9	5.7	15.3	17.5	19.8	21.9	24.9	27.8	1.3	1.1	3.5	4.0	4.6	5.2	6.1	7.1	3.9	2.7	2.3	2.4	2.4
Biomass	4.5	4.7	11.4	12.1	12.7	13.2	14.0	14.8	1.0	0.9	2.7	2.8	2.9	3.1	3.4	3.8	1.2	0.9	1.2	1.1	1.1
Solar, Wind, Ocean	1.4	0.9	3.9	5.0	6.5	8.0	10.1	12.2	0.3	0.2	0.9	1.1	1.5	1.9	2.5	3.1	4.2	5.2	4.9	4.3	4.7
Biofuels	0.0	0.0	0.0	0.4	0.7	0.7	0.8	0.8	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	-100.0	-	6.0	1.7	-
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	287.0	328.2	291.4	285.7	276.2	267.1	257.8	248.8	100	100	100	100	100	100	100	100	0.1	-0.4	-0.7	-0.7	-0.6
Industry	109.6	99.7	82.1	80.4	80.1	80.5	80.3	79.6	38.2	30.4	28.2	28.1	29.0	30.2	31.2	32.0	-1.1	-0.4	0.0	-0.1	-1.1
Transportation	68.1	84.4	71.3	64.1	56.9	50.8	46.1	42.5	23.7	25.7	24.5	22.4	20.6	19.0	17.9	17.1	0.2	-2.1	-2.3	-1.8	-2.1
Others	75.7	102.7	98.8	102.7	101.1	97.9	94.0	89.7	26.4	31.3	33.9	36.0	36.6	36.7	36.4	36.1	1.1	0.8	-0.5	-0.9	-0.4
Non-energy	33.7	41.4	39.2	38.5	38.1	37.8	37.4	36.9	11.8	12.6	13.4	13.5	13.8	14.2	14.5	14.9	0.6	-0.3	-0.2	-0.2	-0.2
Total	287.0	328.2	291.4	285.7	276.2	267.1	257.8	248.8	100	100	100	100	100	100	100	100	0.1	-0.4	-0.7	-0.7	-0.6
Coal	30.5	24.4	23.6	22.9	22.5	22.3	21.7	21.0	10.6	7.4	8.1	8.0	8.2	8.3	8.4	8.4	-1.0	-0.6	-0.3	-0.6	-0.5
Oil	170.7	194.5	152.3	141.7	130.2	119.8	110.4	102.5	59.5	59.3	52.3	49.6	47.1	44.8	42.8	41.2	-0.5	-1.4	-1.7	-1.5	-1.6
Natural gas	15.2	21.7	29.5	31.3	32.1	32.7	32.9	32.8	5.3	6.6	10.1	11.0	11.6	12.2	12.8	13.2	2.7	1.2	0.4	0.0	0.4
Electricity	66.3	83.3	81.6	85.1	86.5	87.6	87.9	87.7	23.1	25.4	28.0	29.8	31.3	32.8	34.1	35.3	0.8	0.8	0.3	0.0	0.3
Heat	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.8	0.1	-0.7	-1.2	-0.7
Others	4.1	3.8	3.8	4.1	4.4	4.3	4.4	4.3	1.4	1.2	1.3	1.4	1.6	1.6	1.7	1.7	-0.2	1.5	0.4	-0.1	0.4

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	872.6	1,088.1	1,035.3	1,079.5	1,095.9	1,109.1	1,112.9	1,109.1	100	100	100	100	100	100	100	100	0.7	0.8	0.3	0.0	0.3
Coal	117.7	233.8	343.2	326.2	302.5	293.5	262.7	246.5	13.5	21.5	33.2	30.2	27.6	26.5	23.6	22.2	4.4	-1.0	-1.1	-1.7	-1.3
Oil	283.7	179.3	102.5	82.2	62.8	49.1	37.1	27.9	32.5	16.5	9.9	7.6	5.7	4.4	3.3	2.5	-4.0	-4.3	-5.0	-5.5	-5.1
Natural gas	170.6	253.6	409.8	371.2	325.1	298.5	296.9	308.8	19.6	23.3	39.6	34.4	29.7	26.9	26.7	27.8	3.6	-2.0	-2.2	0.3	-1.1
Nuclear	202.3	322.0	9.4	110.7	188.3	224.1	238.2	214.6	23.2	29.6	0.9	10.3	17.2	20.2	21.4	19.4	-11.5	63.6	7.3	-0.4	13.3
Hydro	86.9	85.2	85.2	85.0	88.9	91.5	93.2	94.2	10.0	7.8	8.2	7.9	8.1	8.3	8.4	8.5	-0.1	0.0	0.7	0.3	0.4
Geothermal	1.7	3.3	2.6	4.1	5.9	7.6	9.5	11.4	0.2	0.3	0.2	0.4	0.5	0.7	0.9	1.0	1.6	9.8	6.3	4.1	6.1
Others	9.6	10.7	82.5	100.1	122.4	144.7	175.2	205.7	1.1	1.0	8.0	9.3	11.2	13.0	15.7	18.5	9.0	4.0	3.8	3.6	3.7

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	117.9	130.8	161.6	146.9	128.3	116.9	106.9	102.8	100	100	100	100	100	100	100	100	1.3	-1.9	-2.3	-1.3	-1.8
Coal	25.2	48.5	69.6	65.3	59.2	56.1	49.4	45.5	21.4	36.5	43.1	44.4	46.2	48.0	46.2	44.3	4.2	-1.3	-1.5	-2.1	-1.7
Oil	58.8	35.9	20.3	16.9	12.8	9.9	7.4	5.4	49.9	27.0	12.5	11.5	10.0	8.5	6.9	5.3	-4.2	-3.5	-5.2	-5.8	-5.1
Natural gas	33.9	48.5	71.8	64.7	56.2	50.9	50.2	51.8	28.7	36.5	44.4	44.1	43.8	43.5	46.9	50.4	3.0	-2.1	-2.4	0.2	-1.3

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	41.7	43.2	45.5	45.6	46.3	47.1	48.0	48.8									0.3	0.0	0.3	0.3	0.3
Coal	40.2	41.5	42.4	43.0	43.9	45.0	45.8	46.6									0.2	0.3	0.4	0.4	0.4
Oil	41.5	42.9	43.5	41.8	42.2	42.7	43.4	44.2									0.2	-0.8	0.2	0.3	0.1
Natural gas	43.3	45.0	49.1	49.3	49.7	50.4	50.9	51.2									0.5	0.1	0.2	0.2	0.2

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	292.1	325.9	312.9	290.9	270.1	251.7	232.3	219.2	100	100	100	100	100	100	100	100	0.3	-1.1	-1.6	-1.4	-1.4
Coal	82.0	104.5	126.5	124.1	116.3	112.1	102.9	97.0	28.1	32.1	40.4	41.9	43.0	44.5	44.3	44.3	1.7	-0.4	-1.0	-1.4	-1.1
Oil	182.0	179.4	122.5	111.1	97.9	86.7	76.8	68.7	62.3	55.0	39.2	37.5	36.3	34.4	33.1	31.3	-1.6	-1.9	-2.4	-2.3	-2.3
Natural gas	28.1	42.0	63.9	60.7	55.9	52.9	52.6	53.6	9.6	12.9	20.4	20.5	20.7	21.0	22.6	24.4	3.3	-1.0	-1.4	0.1	-0.7

Energy and economic indicators

																	AAGR(%)				
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Republic of Korea (BAU)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	92.9	188.2	272.7	287.2	297.6	303.8	307.2	303.5	100	100	100	100	100	100	100	100	4.4	1.0	0.6	0.0	0.4
Coal	25.4	41.9	80.8	83.9	86.3	85.6	90.3	92.3	27.3	22.3	29.6	29.2	29.0	28.2	29.4	30.4	4.7	0.8	0.2	0.8	0.5
Oil	49.7	99.0	102.7	105.0	108.3	110.0	110.5	109.1	53.5	52.6	37.7	36.6	36.4	36.2	36.0	35.9	2.9	0.4	0.5	-0.1	0.2
Natural gas	2.7	17.0	39.3	44.1	49.5	54.1	61.0	67.6	2.9	9.0	14.4	15.4	16.6	17.8	19.9	22.3	11.3	2.3	2.1	2.2	2.2
Nuclear	13.8	28.4	42.9	45.0	42.3	40.8	31.0	18.8	14.8	15.1	15.7	15.7	14.2	13.4	10.1	6.2	4.7	0.9	-1.0	-7.5	-3.3
Hydro	0.5	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.6	0.2	0.1	0.1	0.1	0.1	0.1	0.1	-4.3	11.8	0.0	0.0	2.3
Geothermal	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	-	2.2	1.8	1.1	1.6
Others	0.7	1.4	6.6	8.6	10.7	12.8	14.0	15.2	0.8	0.8	2.4	3.0	3.6	4.2	4.6	5.0	9.1	5.6	4.0	1.7	3.4
Biomass	0.7	1.3	5.0	5.4	5.7	5.9	6.0	5.9	0.8	0.7	1.8	1.9	1.9	1.9	1.9	2.0	8.1	1.8	0.8	0.1	0.7
Solar, Wind, Ocean	0.0	0.0	0.6	2.1	3.8	5.7	6.8	8.0	0.0	0.0	0.2	0.7	1.3	1.9	2.2	2.6	18.1	26.9	10.5	3.4	10.6
Biofuels	0.0	0.0	0.9	1.1	1.1	1.2	1.2	1.2	0.0	0.0	0.3	0.4	0.4	0.4	0.4	0.4	17.1	3.0	0.9	0.2	1.1
Electricity	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	64.9	127.1	174.2	184.8	193.7	200.3	204.6	205.7	100	100	100	100	100	100	100	100	4.0	1.2	0.8	0.3	0.7
Industry	19.3	38.5	49.1	52.3	54.7	56.2	57.1	57.1	29.7	30.3	28.2	28.3	28.2	28.1	27.9	27.8	3.8	1.2	0.7	0.2	0.6
Transportation	14.6	26.3	33.4	35.1	35.8	35.8	35.1	33.5	22.5	20.7	19.2	19.0	18.5	17.9	17.1	16.3	3.4	1.0	0.2	-0.7	0.0
Others	24.3	37.3	44.3	47.4	49.7	51.7	53.2	53.8	37.5	29.4	25.4	25.7	25.6	25.8	26.0	26.1	2.4	1.4	0.9	0.4	0.8
Non-energy	6.7	25.0	47.3	50.0	53.5	56.6	59.3	61.3	10.4	19.7	27.2	27.1	27.6	28.3	29.0	29.8	8.1	1.1	1.2	0.8	1.0
Total	64.9	127.1	174.2	184.8	193.7	200.3	204.6	205.7	100	100	100	100	100	100	100	100	4.0	1.2	0.8	0.3	0.7
Coal	11.7	9.1	11.8	12.4	12.4	12.2	11.9	11.4	18.1	7.1	6.8	6.7	6.4	6.1	5.8	5.6	0.0	1.0	-0.1	-0.6	-0.1
Oil	43.7	79.9	90.3	93.7	98.5	98.9	97.9	97.9	67.3	62.8	51.8	50.7	50.0	49.2	48.4	47.6	2.9	0.7	0.5	-0.1	0.3
Natural gas	0.7	10.9	20.5	22.9	24.7	26.3	27.6	28.4	1.0	8.6	11.8	12.4	12.8	13.1	13.5	13.8	14.6	2.3	1.4	0.8	1.3
Electricity	8.1	22.6	42.6	46.2	49.8	53.0	55.9	57.8	12.5	17.8	24.5	25.0	25.7	26.5	27.3	28.1	6.9	1.6	1.4	0.9	1.2
Heat	0.0	3.3	4.4	4.7	4.9	4.9	4.9	4.7	0.0	2.6	2.5	2.5	2.5	2.5	2.4	2.3	-	1.4	0.6	-0.5	0.3
Others	0.7	1.3	4.7	5.0	5.2	5.4	5.4	5.5	1.1	1.0	2.7	2.7	2.7	2.7	2.7	2.7	7.6	1.3	0.8	0.2	0.6

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	105.4	288.5	549.2	595.4	641.6	682.9	719.0	743.3	100	100	100	100	100	100	100	100	6.8	1.6	1.4	0.9	1.2
Coal	17.7	111.4	236.6	241.1	255.4	261.8	287.0	308.6	16.8	38.6	43.1	40.5	39.8	38.3	39.9	41.5	10.9	0.4	0.8	1.7	1.1
Oil	18.9	34.6	12.5	11.2	10.2	8.5	7.2	5.2	17.9	12.0	2.3	1.9	1.6	1.3	1.0	0.7	-1.6	-2.2	-2.7	-4.9	-3.5
Natural gas	9.6	29.5	122.9	138.3	161.2	181.3	217.6	255.6	9.1	10.2	22.4	23.2	25.1	26.6	30.3	34.4	10.7	2.4	2.7	3.5	3.0
Nuclear	52.9	109.0	164.8	172.7	162.5	156.4	118.8	72.1	50.2	37.8	30.0	29.0	25.3	22.9	16.5	9.7	4.7	0.9	-1.0	-7.5	-3.3
Hydro	6.4	4.0	2.1	3.7	3.7	3.7	3.7	3.7	6.0	1.4	0.4	0.6	0.6	0.5	0.5	0.5	-4.3	11.8	0.0	0.0	2.3
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.0	0.1	10.4	28.4	48.5	71.1	84.6	98.1	0.0	0.0	1.9	4.8	7.6	10.4	11.8	13.2	44.7	22.3	9.6	3.3	9.4

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	12.5	40.4	79.6	81.4	86.7	88.9	98.7	106.5	100	100	100	100	100	100	100	100	7.7	0.4	0.9	1.8	1.2
Coal	6.0	27.1	56.6	57.3	59.4	58.9	63.4	65.9	47.7	66.9	70.8	70.4	68.5	66.2	64.3	61.9	9.4	0.3	0.3	1.1	0.6
Oil	4.5	7.6	4.1	2.6	2.3	2.0	1.6	1.2	36.0	18.9	5.2	3.2	2.7	2.2	1.7	1.1	-0.4	-8.7	-2.8	-5.0	-4.9
Natural gas	2.0	5.8	19.1	21.5	25.0	28.1	33.6	39.4	16.3	14.2	24.0	26.4	28.8	31.6	34.1	37.0	9.4	2.4	2.7	3.5	2.9

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	31.7	37.3	49.2	41.3	42.3	43.7	44.6	46.0									1.0	0.5	0.6	0.5	0.5
Coal	25.4	35.4	36.1	36.2	37.0	38.2	38.9	40.3									1.4	0.0	0.6	0.5	0.4
Oil	35.9	39.0	26.1	37.0	37.2	37.5	37.7	37.8									-1.3	7.2	0.1	0.1	1.5
Natural gas	40.6	44.0	55.3	55.4	55.5	55.6	55.7	55.8									1.2	0.0	0.0	0.0	0.0

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)					
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
Total	65.2	118.2	158.7	164.8	170.6	171.7	179.2	182.8	100	100	100	100	100	100	100	100	3.6	0.7	0.4	0.6	0.6	
Coal	27.4	45.3	86.7	89.9	92.4	91.5	96.3	98.4	42.1	38.3	54.6	54.6	54.2	53.3	53.8	53.8	4.7	0.7	0.2	0.7	0.5	
Oil	36.0	62.0	46.8	46.5	46.5	45.5	43.8	41.1	55.3	52.4	29.5	28.2	27.3	26.5	24.4	24.4	22.5	1.1	-0.1	-0.2	-1.0	-0.5
Natural gas	1.7	10.9	25.2	28.3	31.7	34.7	39.1	43.3	2.7	9.2	15.9	17.2	18.6	20.2	21.8	23.7	11.3	2.3	2.1	2.2	2.2	

Energy and economic indicators

									AAGR(%)					
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
GDP (billions of 2010 US dollars)	377	710	1,267	1,460	1,683	1,898	2,101	2,272	5.0	2.9	2.7	1.8	2.4	
Population (millions of people)	42.9	47.0	51.1	52.0	52.6	52.9	52.8	52.2	0.7	0.4	0.2	-0.1	0.1	
GDP per capita (thousands of 2010 US\$/person)	8.80	15.09	24.80	28.09	32.0	35.8	39.8	43.5	4.2	2.5	2.5	2.0	2.3	
Primary energy consumption per capita (toe/person)	2.17	4.00	5.34	5.53	5.66	5.74	5.82	5.81	3.7	0.7	0.4	0.1	0.3	
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	246	265	215	197	177	160	146	134	-0.5	-1.8	-2.0	-1.8	-1.9	
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	172	179	138	127	115	106	97	91	-0.9	-1.7	-1.8	-1.5	-1.7	
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	173	166	125	113	101	90	85	80	-1.3	-2.1	-2.2	-1.2	-1.8	
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.70	0.63	0.58	0.57	0.57	0.57	0.58	0.60	-0.7	-0.3	-0.2	0.6	0.1	
Automobile ownership volume (millions of vehicles)	3	12	21	24	26	28	29	29	7.6	2.6	1.5	0.5	1.3	
Automobile ownership volume per capita (vehicles per person)	0.079	0.256	0.411	0.460	0.496	0.523	0.546	0.560	6.8	2.3	1.3	0.7	1.2	

Republic of Korea (APS)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	92.9	188.2	273.7	283.4	288.7	288.9	287.5	279.3	100	100	100	100	100	100	100	100	4.4	0.8	0.2	-0.3	0.1
Coal	25.4	41.9	80.8	74.4	65.9	65.0	61.0	61.8	27.3	22.3	29.6	26.2	22.8	22.5	21.2	22.1	4.7	-1.6	-1.3	-0.5	-1.1
Oil	49.7	99.0	102.7	104.9	106.0	106.1	104.7	102.2	53.5	52.6	37.7	37.0	36.7	36.7	36.4	36.6	2.9	0.4	0.1	-0.4	0.0
Natural gas	2.7	17.0	39.3	41.4	42.3	45.5	47.4	51.2	2.9	9.0	14.4	14.6	14.7	15.7	16.5	18.3	11.3	1.0	0.9	1.2	1.1
Nuclear	13.8	28.4	42.9	53.4	61.9	56.8	56.8	44.6	14.8	15.1	15.7	18.8	21.4	19.7	19.7	16.0	4.7	4.5	0.6	-2.4	0.2
Hydro	0.5	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.6	0.2	0.1	0.1	0.1	0.1	0.1	0.1	-4.3	11.8	0.0	0.0	2.3
Geothermal	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	-	2.0	1.6	1.0	1.4
Others	0.7	1.4	6.6	8.9	12.0	15.0	17.1	19.1	0.8	0.8	2.4	3.1	4.2	5.2	5.9	6.8	9.1	6.2	5.3	2.5	4.4
Biomass	0.7	1.3	5.0	5.4	5.7	5.9	5.9	5.9	0.8	0.7	1.8	1.9	2.0	2.0	2.1	2.1	8.1	1.8	0.8	0.0	0.7
Solar, Wind, Ocean	0.0	0.0	0.6	2.3	4.8	7.4	9.4	11.5	0.0	0.0	0.2	0.8	1.6	2.6	3.3	4.1	18.1	28.7	12.7	4.5	12.3
Biofuels	0.0	0.0	0.9	1.1	1.5	1.6	1.6	1.6	0.0	0.0	0.3	0.4	0.5	0.5	0.6	0.6	17.1	4.4	3.4	0.4	2.4
Electricity	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	64.9	127.1	174.2	183.3	189.6	193.1	194.3	192.6	100	100	100	100	100	100	100	100	4.0	1.0	0.5	0.0	0.4
Industry	19.3	38.5	49.1	51.8	53.5	54.3	53.2	29.7	30.3	28.2	28.3	28.2	28.1	27.9	27.6	27.6	3.8	1.1	0.5	-0.2	0.3
Transportation	14.6	26.3	33.4	34.7	34.6	33.5	31.4	28.9	22.5	20.7	19.2	18.9	18.3	17.3	16.2	15.0	3.4	0.8	-0.4	-1.4	-0.6
Others	24.3	37.3	44.3	46.7	47.9	48.8	49.4	49.2	37.5	29.4	25.4	25.5	25.3	25.2	25.4	25.6	2.4	1.1	0.4	0.1	0.4
Non-energy	6.7	25.0	47.3	50.0	53.5	56.6	59.3	61.3	10.4	19.7	27.2	27.3	28.2	29.3	30.5	31.8	8.1	1.1	1.2	0.8	1.0
Total	64.9	127.1	174.2	183.3	189.6	193.1	194.3	192.6	100	100	100	100	100	100	100	100	4.0	1.0	0.5	0.0	0.4
Coal	11.7	9.1	11.8	12.3	12.2	12.0	11.5	10.9	18.1	7.1	6.8	6.7	6.4	6.2	5.9	5.7	0.0	0.9	-0.3	-0.9	-0.3
Oil	43.7	79.9	90.3	93.2	94.9	95.2	94.2	92.0	67.3	62.8	51.8	50.8	50.1	49.3	48.5	47.7	2.9	0.6	0.2	-0.3	0.1
Natural gas	0.7	10.9	20.5	22.7	24.1	25.3	26.3	26.7	1.0	8.6	11.8	12.4	12.7	13.1	13.5	13.9	14.6	2.1	1.1	0.5	1.1
Electricity	8.1	22.6	42.6	45.4	48.0	50.2	52.1	53.0	12.5	17.8	24.5	24.8	25.3	26.0	26.8	27.5	6.9	1.3	1.0	0.5	0.9
Heat	0.0	3.3	4.4	4.6	4.8	4.8	4.6	4.4	0.0	2.6	2.5	2.5	2.5	2.5	2.4	2.3	-	1.2	0.3	-0.8	0.1
Others	0.7	1.3	4.7	5.0	5.5	5.6	5.6	5.6	1.1	1.0	2.7	2.7	2.9	2.9	2.9	2.9	7.5	1.4	1.1	0.0	0.7

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	105.4	288.5	549.2	585.8	619.1	647.1	670.1	681.4	100	100	100	100	100	100	100	100	6.8	1.3	1.0	0.5	0.9
Coal	17.7	111.4	236.6	214.1	190.0	193.4	186.6	198.8	16.8	38.6	43.1	36.5	30.7	29.9	27.8	29.2	10.9	-2.0	-1.0	0.3	-0.7
Oil	18.9	34.6	12.5	10.0	7.6	6.3	4.7	3.3	17.9	12.0	2.3	1.7	1.2	1.0	0.7	0.5	-1.6	-4.5	-4.5	-6.2	-5.2
Natural gas	9.6	29.5	122.9	122.8	120.0	134.0	141.5	164.7	9.1	10.2	22.4	21.0	19.4	20.7	21.1	24.2	10.7	0.0	0.9	2.1	1.2
Nuclear	52.9	109.0	164.8	204.9	237.6	217.8	217.8	171.1	50.2	37.8	30.0	35.0	38.4	33.7	32.5	25.1	4.7	4.5	0.6	-2.4	0.2
Hydro	6.4	4.0	2.1	3.7	3.7	3.7	3.7	3.7	6.0	1.4	0.4	0.6	0.6	0.6	0.6	0.6	-4.3	11.8	0.0	0.0	2.3
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.0	0.1	10.4	30.3	60.2	91.8	115.8	139.8	0.0	0.0	1.9	5.2	9.7	14.2	17.3	20.5	44.7	24.0	11.7	4.3	11.0

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	12.5	40.4	79.6	71.4	63.1	64.1	61.9	66.2	100	100	100	100	100	100	100	100	7.7	-2.2	-1.1	0.3	-0.7
Coal	6.0	27.1	56.4	49.4	42.5	42.0	39.4	40.8	47.7	66.9	70.8	69.2	67.5	65.6	63.6	61.6	9.4	-2.6	-1.6	-0.3	-1.3
Oil	4.5	7.6	4.1	3.0	2.1	1.7	1.1	0.8	36.0	18.9	5.2	4.2	3.4	2.6	1.9	1.2	-0.4	-6.0	-5.8	-7.4	-6.5
Natural gas	2.0	5.8	19.1	19.0	18.4	20.4	21.4	24.7	16.3	14.2	24.0	26.6	29.2	31.8	34.5	37.2	9.4	-0.2	0.7	1.9	1.0

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040									1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	31.7	37.3	40.2	41.8	43.3	44.8	46.2	47.6									1.0	0.8	0.7	0.6	0.7
Coal	25.4	35.4	36.1	37.3	38.4	39.6	40.7	41.9									1.4	0.6	0.6	0.6	0.6
Oil	35.9	39.0	26.1	28.3	30.5	32.6	34.8	37.0									-1.3	1.6	1.4	1.3	1.4
Natural gas	40.6	44.0	55.3	55.7	56.1	56.5	57.0	57.4									1.2	0.2	0.2	0.2	0.2

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	65.2	118.2	158.7	152.6	142.1	140.6	134.1	133.5	100	100	100	100	100	100	100	100	3.6	-0.8	-0.8	-0.5	-0.7
Coal	27.4	45.3	86.7	79.6	70.3	69.2	64.7	65.4	42.1	38.3	54.6	52.2	49.5	49.2	48.3	49.0	4.7	-1.7	-1.4	-0.6	-1.1
Oil	36.0	62.0	46.8	46.5	44.6	42.2	38.9	35.2	55.3	52.4	29.5	30.4	31.4	30.0	29.0	26.4	1.1	-0.2	-1.0	-1.8	-1.1
Natural gas	1.7	10.9	25.2	26.6	27.1	29.2	30.4	32.8	2.7	9.2	15.9	17.4	19.1	20.7	22.7	24.6	11.3	1.0	0.9	1.2	1.1

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	377	710	1,267	1,460	1,683	1,898	2,101	2,272	5.0	2.9	2.7	1.8	2.4
Population (millions of people)	42.9	47.0	51.1	52.0	52.6	52.9	52.8	52.2	0.7	0.4	0.2	-0.1	0.1
GDP per capita (thousands of 2010 US\$/person)	8.80	15.09	24.80	28.09	32.0	35.8	39.8	43.5	4.2	2.5	2.5	2.0	2.3
Primary energy consumption per capita (toe/person)	2.17	4.00	5.34	5.45	5.49	5.46	5.44	5.35	3.7	0.4	0.0	-0.2	0.0
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	246	265	215	194	172	152	137	123	-0.5	-2.0	-2.4	-2.1	-2.2
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	172	179	138	126	113	102	92	85	-0.9	-1.8	-2.1	-1.8	-1.9
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	173	166	125	105	84	74	64	59	-1.3	-3.6	-3.4	-2.3	-3.0
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.70	0.63	0.58	0.54	0.49	0.49	0.47	0.48	-0.7	-1.5	-1.0	-0.2	-0.8
Automobile ownership volume (millions of vehicles)	3	12	21	24	26	28	29	29	7.6	2.6	1.5	0.5	1.3
Automobile ownership volume per capita (vehicles per person)	0.079	0.256	0.411	0.460	0.496	0.523	0.546	0.560	6.8	2.3	1.3	0.7	1.2

Lao People's Democratic Republic (BAU)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.20	1.65	9.49	13.42	18.18	18.55	18.95	36.81	100	100	100	100	100	100	100	100	8.6	7.2	3.3	7.1	5.6
Coal	0.00	0.00	7.04	11.64	16.76	16.80	16.82	36.32	0.0	0.0	74.3	86.8	92.2	90.6	88.7	98.7	-	10.6	3.7	8.0	6.8
Oil	0.16	0.28	0.99	1.09	1.21	1.35	1.50	1.68	13.6	17.2	10.4	8.1	6.7	7.3	7.9	4.6	7.5	2.0	2.1	2.2	2.1
Natural gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.07	0.30	1.33	2.42	1.11	1.86	1.86	2.30	5.9	17.9	14.1	18.0	6.1	10.0	9.8	6.2	12.5	12.6	-2.6	2.1	2.2
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.97	1.07	0.12	-1.73	-0.91	-1.46	-1.22	-3.49	80.5	65.0	1.3	-12.9	-5.0	-7.9	-6.5	-9.5	-8.0	-270.3	-1.7	9.1	-214.4
Biomass	1.01	1.30	1.30	1.39	1.48	1.56	1.66	1.75	84.6	78.5	13.7	10.4	8.1	8.4	8.7	4.8	1.0	1.3	1.2	1.1	1.2
Solar, Wind, Ocean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Biofuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	-0.05	-0.22	-1.18	-3.12	-2.38	-3.02	-2.88	-5.24	-4.1	-13.6	-12.5	-23.3	-13.1	-16.3	-15.2	-14.2	13.6	21.4	-0.3	5.7	6.1

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.09	1.50	9.12	11.34	14.87	15.24	15.64	29.58	100	100	100	100	100	100	100	100	8.9	4.4	3.0	6.9	4.8
Industry	0.04	0.06	6.70	8.66	11.90	11.95	11.97	25.47	3.6	4.2	73.5	76.4	80.0	78.4	76.5	86.1	22.9	5.3	3.3	7.9	5.5
Transportation	0.16	0.27	0.97	1.08	1.20	1.33	1.49	1.66	14.7	17.7	10.6	9.5	8.1	8.8	9.5	5.6	7.5	2.1	2.2	2.2	2.2
Others	0.89	1.17	1.44	1.59	1.77	1.96	2.18	2.44	81.7	78.1	15.8	14.1	11.9	12.8	13.9	8.2	1.9	2.0	2.1	2.2	2.1
Non-energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.9	0.9	0.9	0.9
Total	1.09	1.50	9.12	11.34	14.87	15.24	15.64	29.58	100	100	100	100	100	100	100	100	8.9	4.4	3.0	6.9	4.8
Coal	0.00	0.00	6.49	8.44	11.67	11.71	11.73	25.22	0.0	0.0	71.1	74.5	78.5	76.9	75.0	85.3	-	5.4	3.3	8.0	5.6
Oil	0.16	0.27	0.99	1.09	1.21	1.35	1.50	1.68	14.9	18.1	10.8	9.6	8.2	8.9	9.6	5.7	7.5	2.0	2.1	2.2	2.1
Natural gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	0.01	0.06	0.34	0.41	0.50	0.61	0.75	0.93	1.3	3.7	3.8	3.6	3.4	4.0	4.8	3.1	13.6	3.7	4.0	4.2	4.1
Heat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.92	1.17	1.30	1.39	1.48	1.56	1.66	1.75	83.8	78.2	14.3	12.3	9.9	10.3	10.6	5.9	1.4	1.3	1.2	1.1	1.2

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.82	3.44	17.76	41.12	33.63	42.32	42.32	71.86	100	100	100	100	100	100	100	100	13.1	18.3	0.3	5.4	5.7
Coal	0.00	0.00	2.26	13.02	20.71	20.71	20.71	45.17	0.0	0.0	12.7	31.7	61.6	48.9	48.9	62.9	-	42.0	4.7	8.1	12.7
Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Natural gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.82	3.44	15.51	28.09	12.92	21.61	21.61	26.69	100.0	100.0	87.3	68.3	38.4	51.1	51.1	37.1	12.5	12.6	-2.6	2.1	2.2
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.00	0.00	0.56	3.20	5.09	5.09	5.09	11.10	-	-	100	100	100	100	100	100	-	42.0	4.7	8.1	12.7
Coal	0.00	0.00	0.56	3.20	5.09	5.09	5.09	11.10	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	-	42.0	4.7	8.1	12.7
Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Natural gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	-	-	35.0	35.0	35.0	35.0	35.0	35.0									-	0.0	0.0	0.0	0.0
Coal	-	-	35.0	35.0	35.0	35.0	35.0	35.0									-	0.0	0.0	0.0	0.0
Oil	-	-	-	-	-	-	-	-									-	-	-	-	-
Natural gas	-	-	-	-	-	-	-	-									-	-	-	-	-

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.2	0.3	8.3	13.6	19.3	19.4	19.6	40.9	100	100	100	100	100	100	100	100	16.1	10.2	3.7	7.7	6.6
Coal	0.0	0.0	7.5	12.6	18.3	18.3	18.3	39.5	0.0	0.0	90.1	93.3	94.7	94.2	93.6	96.6	-	11.0	3.8	8.0	6.9
Oil	0.2	0.3	0.8	0.9	1.0	1.1	1.3	1.4	100.0	100.0	9.9	6.7	5.3	5.8	6.4	3.4	5.8	2.0	2.1	2.2	2.1
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	1.1	2.0	5.1	7.2	10.0	13.3	17.6	23.1	6.3	7.1	6.4	5.7	6.2
Population (millions of people)	4.2	5.4	6.7	7.2	7.7	8.2	8.7	9.3	1.8	1.5	1.3	1.2	1.3
GDP per capita (thousands of 2010 US\$/person)	0.3	0.4	0.8	1.00	1.3	1.6	2.0	2.5	4.4	5.5	5.0	4.4	4.8
Primary energy consumption per capita (toe/person)	0.3	0.3	1.4	1.87	2.37	2.26	2.17	3.97	6.7	5.6	1.9	5.8	4.2
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	1,080	818	1,862	1,872	1,825	1,394	1,076	1,592	2.2	0.1	-2.9	1.3	-0.6
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	984	743	1,791	1,581	1,492	1,145	888	1,279	2.4	-2.5	-3.2	1.1	-1.3
CO ₂ emissions per unit of GDP (t-C/million 2010 US dollars)	180	148	1,636	1,890	1,933	1,459	1,111	1,771	9.2	2.9	-2.6	2.0	0.3
CO ₂ emissions per unit of primary energy consumption (t-C/toe)	0.2	0.2	0.9	1.01	1.06	1.05	1.03	1.11	6.9	2.8	0.4	0.6	0.9
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

Lao People's Democratic Republic (APS)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.20	1.65	9.49	12.40	16.86	17.29	17.79	34.47	100	100	100	100	100	100	100	100	8.6	5.5	3.4	7.1	5.3
Coal	0.00	0.00	7.04	10.80	15.60	15.63	15.64	33.80	0.0	0.0	74.3	87.1	92.5	90.4	87.9	98.1	-	8.9	3.8	8.0	6.5
Oil	0.16	0.28	0.99	0.99	1.10	1.23	1.37	1.53	13.6	17.2	10.4	8.0	6.5	7.1	7.7	4.4	7.5	0.0	2.2	2.2	1.8
Natural gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.07	0.30	1.33	2.47	1.11	1.86	1.86	2.30	5.9	17.9	14.1	19.9	6.6	10.7	10.4	6.7	12.5	13.1	-2.8	2.1	2.2
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.97	1.07	0.12	-1.86	-0.94	-1.43	-1.08	-3.15	80.5	65.0	1.3	-15.0	-5.6	-8.2	-6.1	-9.1	-8.0	-272.8	-2.6	8.3	-213.9
Biomass	1.01	1.30	1.30	1.26	1.34	1.42	1.50	1.58	84.6	78.5	13.7	10.1	7.9	8.2	8.4	4.6	1.0	-0.7	1.2	1.1	0.8
Solar, Wind, Ocean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Biofuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	-0.05	-0.22	-1.18	-3.12	-2.28	-2.84	-2.58	-4.74	-4.1	-13.6	-12.5	-25.2	-13.5	-16.4	-14.5	-13.7	13.6	21.4	-0.9	5.2	5.7

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.09	1.50	9.12	10.22	13.40	13.73	14.10	26.65	100	100	100	100	100	100	100	100	8.9	2.3	3.0	6.9	4.4
Industry	0.04	0.06	6.70	7.80	10.72	10.76	10.78	22.94	3.6	4.2	73.5	76.4	80.0	78.3	76.5	86.1	22.9	3.1	3.3	7.9	5.0
Transportation	0.16	0.27	0.97	0.98	1.09	1.21	1.35	1.51	14.7	17.7	10.6	9.5	8.1	8.8	9.6	5.7	7.5	0.1	2.2	2.2	1.8
Others	0.89	1.17	1.44	1.44	1.59	1.76	1.96	2.20	81.7	78.1	15.8	14.0	11.9	12.8	13.9	8.2	1.9	-0.1	2.1	2.2	1.7
Non-energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-0.1	0.9	0.9	0.7
Total	1.09	1.50	9.12	10.22	13.40	13.73	14.10	26.65	100	100	100	100	100	100	100	100	8.9	2.3	3.0	6.9	4.4
Coal	0.00	0.00	6.49	7.60	10.51	10.54	10.55	22.70	0.0	0.0	71.1	74.4	78.4	76.8	74.9	85.2	-	3.2	3.3	8.0	5.1
Oil	0.16	0.27	0.99	0.99	1.10	1.23	1.37	1.53	14.9	18.1	10.8	9.7	8.2	8.9	9.7	5.7	7.5	0.0	2.2	2.2	1.8
Natural gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	0.01	0.06	0.34	0.37	0.45	0.55	0.67	0.83	1.3	3.7	3.8	3.6	3.4	4.0	4.8	3.1	13.6	1.6	4.0	4.2	3.6
Heat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.92	1.17	1.30	1.26	1.34	1.42	1.50	1.58	83.8	78.2	14.3	12.3	10.0	10.3	10.6	5.9	1.4	-0.7	1.2	1.1	0.8

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.82	3.44	17.76	41.77	33.63	42.32	42.32	71.86	100	100	100	100	100	100	100	100	13.1	18.6	0.1	5.4	5.7
Coal	0.00	0.00	2.26	13.02	20.71	20.71	20.71	45.17	0.0	0.0	12.7	31.2	61.6	48.9	48.9	62.9	-	42.0	4.7	8.1	12.7
Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Natural gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.82	3.44	15.51	28.74	12.92	21.61	21.61	26.69	100.0	100.0	87.3	68.8	38.4	51.1	51.1	37.1	12.5	13.1	-2.8	2.1	2.2
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.00	0.00	0.56	3.20	5.09	5.09	5.09	11.10	-	-	100	100	100	100	100	100	-	42.0	4.7	8.1	12.7
Coal	0.00	0.00	0.56	3.20	5.09	5.09	5.09	11.10	0.0	0.0	100.0	100.0	100.0	100.0	100.0	100.0	-	42.0	4.7	8.1	12.7
Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Natural gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040									1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	-	-	35.0	35.0	35.0	35.0	35.0	35.0									-	0.0	0.0	0.0	0.0
Coal	-	-	35.0	35.0	35.0	35.0	35.0	35.0									-	0.0	0.0	0.0	0.0
Oil	-	-	-	-	-	-	-	-									-	-	-	-	-
Natural gas	-	-	-	-	-	-	-	-									-	-	-	-	-

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.2	0.3	8.3	12.6	17.9	18.1	18.2	38.1	100	100	100	100	100	100	100	100	16.1	8.6	3.7	7.8	6.3
Coal	0.0	0.0	7.5	11.8	17.0	17.1	17.1	36.9	0.0	0.0	90.1	93.5	94.9	94.4	93.7	96.7	-	9.4	3.8	8.0	6.6
Oil	0.2	0.3	0.8	0.8	0.9	1.0	1.1	1.3	100.0	100.0	9.9	6.5	5.1	5.6	6.3	3.3	5.8	0.0	2.2	2.2	1.8
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Energy and economic indicators

									AAGR(%)					
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
GDP (billions of 2010 US dollars)	1.1	2.0	5.1	7.2	10.0	13.3	17.6	23.1	6.3	7.1	6.4	5.7	6.2	
Population (millions of people)	4.2	5.4	6.7	7.2	7.7	8.2	8.7	9.3	1.8	1.5	1.3	1.2	1.3	
GDP per capita (thousands of 2010 US\$/person)	0.3	0.4	0.8	1.00	1.3	1.6	2.0	2.5	4.4	5.5	5.0	4.4	4.8	
Primary energy consumption per capita (toe/person)	0.3	0.3	1.4	1.73	2.20	2.11	2.04	3.72	6.7	4.0	2.0	5.8	3.9	
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	1,080	818	1,862	1,729	1,693	1,299	1,010	1,491	2.2	-1.5	-2.8	1.4	-0.9	
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	984	743	1,791	1,425	1,345	1,032	800	1,152	2.4	-4.5	-3.2	1.1	-1.7	
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	180	148	1,636	1,754	1,800	1,358	1,034	1,650	9.2	1.4	-2.5	2.0	0.0	
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.2	0.2	0.9	1.01	1.06	1.05	1.02	1.11	6.9	2.9	0.3	0.6	0.9	
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-	
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-	

Malaysia (BAU)

Primary energy supply

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	19.84	46.72	70.58	88.92	106.84	127.91	149.80	172.74	100	100	100	100	100	100	100	100	5.2	4.7	3.7	3.1
Coal	1.36	2.31	17.37	20.72	23.76	27.92	32.59	39.00	6.8	4.9	24.6	23.3	22.2	21.8	21.8	22.6	10.7	3.6	3.0	3.4
Oil	11.35	19.09	27.34	35.03	41.84	49.60	57.01	64.26	57.2	40.9	38.7	39.4	39.2	38.8	38.1	37.2	3.6	5.1	3.5	2.6
Natural gas	6.80	24.72	24.60	30.34	37.96	47.07	56.87	66.11	34.3	52.9	34.9	34.1	35.5	36.8	38.0	38.3	5.3	4.3	4.5	3.5
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Hydro	0.34	0.60	1.22	1.45	2.01	2.05	2.05	2.05	1.7	1.3	1.7	1.6	1.9	1.6	1.4	1.2	5.2	3.6	3.5	0.0
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Others	-0.01	0.00	0.05	1.38	1.26	1.27	1.30	1.32	0.0	0.0	0.1	1.5	1.2	1.0	0.9	0.8	-209.3	97.4	-0.8	0.4
Biomass	0.00	0.00	0.21	1.42	1.42	1.42	1.42	1.42	0.0	0.0	0.3	1.6	1.3	1.1	0.9	0.8	-	46.8	0.0	0.0
Solar, Wind, Ocean	0.00	0.00	0.02	0.03	0.03	0.03	0.03	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	7.7	0.0	0.0
Biofuels	0.00	0.00	0.39	0.41	0.43	0.45	0.47	0.50	0.0	0.0	0.5	0.5	0.4	0.4	0.3	0.3	-	1.0	1.0	1.0
Electricity	-0.01	0.00	-0.57	-0.48	-0.62	-0.63	-0.63	-0.63	0.0	0.0	-0.8	-0.5	-0.6	-0.5	-0.4	-0.4	20.9	-3.4	2.7	0.0

Final energy consumption

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	12.52	28.13	49.52	64.30	77.93	93.48	109.31	125.14	100	100	100	100	100	100	100	100	5.7	5.4	3.8	3.0
Industry	5.30	11.41	13.97	16.78	20.65	24.94	29.20	33.29	42.3	40.6	28.2	26.1	26.5	26.7	26.7	26.6	4.0	3.7	4.0	2.9
Transportation	4.76	10.50	21.10	27.34	33.10	39.73	46.38	53.03	38.0	37.3	42.6	42.5	42.5	42.5	42.4	42.4	6.1	5.3	3.8	2.9
Others	1.62	3.97	8.53	10.84	13.25	16.04	19.08	22.29	13.0	14.1	17.2	16.9	17.0	17.2	17.5	17.8	6.9	4.9	4.0	3.3
Non-energy	0.84	2.25	5.93	9.34	10.93	12.76	14.64	16.53	6.7	8.0	12.0	14.5	14.0	13.7	13.4	13.2	8.1	9.5	3.2	2.6
Total	12.52	28.13	49.52	64.30	77.93	93.48	109.31	125.14	100	100	100	100	100	100	100	100	5.7	5.4	3.8	3.0
Coal	0.51	0.99	1.78	2.28	2.76	3.25	3.73	4.22	4.1	3.5	3.6	3.5	3.5	3.5	3.4	3.4	5.1	5.1	3.6	2.7
Oil	9.19	18.01	26.39	33.74	40.36	47.87	55.26	62.52	73.5	64.0	53.3	52.5	51.8	51.2	50.6	50.0	4.3	5.0	3.6	2.7
Natural gas	1.09	3.86	9.56	13.86	17.29	21.29	25.36	29.33	8.7	13.7	19.3	21.6	22.2	22.8	23.2	23.4	9.1	7.7	4.4	3.3
Electricity	1.72	5.26	11.40	14.01	17.08	20.62	24.49	28.57	13.7	18.7	23.0	21.8	21.9	22.1	22.4	22.8	7.9	4.2	3.9	3.3
Heat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Others	0.00	0.00	0.39	0.41	0.43	0.45	0.47	0.50	0.0	0.0	0.8	0.6	0.5	0.5	0.4	0.4	-	1.0	1.0	1.0

Power generation output

	TWh								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	23.02	66.65	150.37	182.25	222.77	267.54	316.47	368.13	100	100	100	100	100	100	100	100	7.8	3.9	3.9	3.2
Coal	2.93	7.69	63.47	76.93	87.34	102.95	121.73	145.83	12.7	11.5	42.2	42.2	39.2	38.5	38.5	39.6	13.1	3.9	3.0	3.5
Oil	10.56	3.01	1.74	1.84	1.56	1.54	1.61	1.60	45.9	4.5	1.2	1.0	0.7	0.6	0.5	0.4	-7.0	1.1	-1.8	0.4
Natural gas	5.54	48.99	69.96	81.04	104.92	133.74	163.83	191.40	24.1	73.5	46.5	44.5	47.1	50.0	51.8	52.0	10.7	3.0	5.1	3.6
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Hydro	3.99	6.97	14.17	16.92	23.43	23.81	23.79	23.79	17.3	10.5	9.4	9.3	10.5	8.9	7.5	6.5	5.2	3.6	3.5	0.0
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
Others	0.00	0.00	1.02	5.51	5.51	5.51	5.51	5.51	0.0	0.0	0.7	3.0	2.5	2.1	1.7	1.5	-	40.0	0.0	0.0

Power generation input

	Mtoe								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	5.16	13.86	31.09	35.39	42.07	50.85	60.79	71.98	100	100	100	100	100	100	100	100	7.4	2.6	3.7	3.5
Coal	0.81	1.50	15.59	18.44	21.00	24.67	28.86	34.78	15.7	10.8	50.2	52.1	49.9	48.5	47.5	48.3	12.5	3.4	3.0	3.5
Oil	2.99	0.78	0.45	0.48	0.41	0.40	0.42	0.42	57.9	5.7	1.5	1.4	1.0	0.8	0.7	0.6	-7.3	1.1	-1.8	0.4
Natural gas	1.36	11.58	15.04	16.48	20.67	25.78	31.51	36.78	26.4	83.6	48.4	46.6	49.1	50.7	51.8	51.1	10.1	1.8	4.6	3.6

Thermal efficiency

	%								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	31.7	37.0	37.4	38.8	39.6	40.3	40.6	40.5									0.7	0.8	0.4	0.0
Coal	31.0	44.2	35.0	35.9	35.8	35.9	36.3	36.1									0.5	0.5	0.0	0.0
Oil	30.4	33.0	33.0	33.0	33.0	33.0	33.0	33.0									0.3	0.0	0.0	0.0
Natural gas	35.0	36.4	40.0	42.3	43.7	44.6	44.7	44.8									0.5	1.1	0.5	0.0

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)			
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040
Total	13.6	30.7	52.0	59.5	72.0	86.0	98.8	116.3	100	100	100	100	100	100	100	100	5.5	2.8	3.7	3.1
Coal	1.4	2.6	18.5	18.6	21.8	25.1	26.8	33.7	8.5	35.6	31.2	30.4	29.2	27.2	29.0	29.0	10.9	0.1	3.0	3.0
Oil	10.3	15.7	20.6	26.6	31.9	38.0	44.0	49.9	75.7	51.1	39.7	44.7	44.4	44.2	44.6	42.9	2.8	5.2	3.6	2.8
Natural gas	1.9	12.4	12.9	14.4	18.2	22.9	27.9	32.6	14.0	40.4	24.7	24.1	25.3	26.6	28.3	28.1	7.9	2.2	4.8	3.6

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	81.8	162.5	330.0	403.1	487.1	582.9	679.0	774.9	5.7	4.1	3.8	2.9	3.5
Population (millions of people)	18.0	23.2	30.7	33.0	34.9	36.6	38.2	39.6	2.2	1.4	1.1	0.8	1.0
GDP per capita (thousands of 2010 US\$/person)	4.5	7.0	10.7	12.23	14.0	15.9	17.8	19.6	3.5	2.6	2.7	2.1	2.4
Primary energy consumption per capita (toe/person)	1.1	2.0	2.3	2.70	3.07	3.49	3.92	4.37	3.0	3.3	2.6	2.3	2.6
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	243	287	214	221	219	219	221	223	-0.5	0.6	-0.1	0.2	0.2
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	153	173	150	159	160	160	161	161	-0.1	1.2	0.1	0.1	0.3
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	166	189	157	148	148	147	146	150	-0.2	-1.3	0.0	0.2	-0.2
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.7	0.7	0.7	0.67	0.67	0.67	0.66	0.67	0.3	-1.9	0.0	0.0	-0.4
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

Malaysia (APS)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	19.84	46.72	70.58	82.26	96.05	112.34	128.61	145.21	100	100	100	100	100	100	100	100	5.2	3.1	3.2	2.6	2.9
Coal	1.36	2.31	17.37	17.54	18.55	20.42	23.04	25.31	6.8	4.9	24.6	21.3	19.3	18.2	17.9	17.4	10.7	0.2	1.5	2.2	1.5
Oil	11.35	19.09	27.34	33.85	40.28	47.62	54.57	61.37	57.2	40.9	38.7	41.2	41.9	42.4	42.4	42.3	3.6	4.4	3.5	2.6	3.3
Natural gas	6.80	24.72	24.60	27.04	32.62	39.43	45.86	51.04	34.3	52.9	34.9	32.9	34.0	35.1	35.7	35.1	5.3	1.9	3.8	2.6	3.0
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.34	0.60	1.22	1.51	2.12	2.16	2.18	2.18	1.7	1.3	1.7	1.8	2.2	1.9	1.7	1.5	5.2	4.4	3.7	0.1	2.4
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	-0.01	0.00	0.05	2.32	2.48	2.71	2.95	3.16	0.0	0.0	0.1	2.8	2.6	2.4	2.3	2.2	-209.3	119.0	1.6	1.5	18.4
Biomass	0.00	0.00	0.21	1.60	1.61	1.63	1.68	1.68	0.0	0.0	0.3	1.9	1.7	1.5	1.3	1.2	-	50.3	0.2	0.2	8.7
Solar, Wind, Ocean	0.00	0.00	0.02	0.20	0.36	0.39	0.40	0.40	0.0	0.0	0.0	0.2	0.4	0.4	0.3	0.3	-	54.0	6.9	0.2	12.1
Biofuels	0.00	0.00	0.39	1.07	1.25	1.45	1.65	1.85	0.0	0.0	0.5	1.3	1.3	1.3	1.3	1.3	-	22.5	3.1	2.5	6.5
Electricity	-0.01	0.00	-0.57	-0.55	-0.74	-0.77	-0.77	-0.78	0.0	0.0	-0.8	-0.7	-0.8	-0.7	-0.6	-0.5	20.9	-0.8	3.3	0.1	1.2

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	12.52	28.13	49.52	61.72	74.20	88.29	102.39	116.25	100	100	100	100	100	100	100	100	5.7	4.5	3.6	2.8	3.5
Industry	5.30	11.41	13.97	15.22	18.38	21.78	25.02	27.96	42.3	40.6	28.2	24.7	24.8	24.7	24.4	24.1	4.0	1.7	3.7	2.5	2.8
Transportation	4.76	10.50	21.10	27.34	33.10	39.73	46.38	53.03	38.0	37.3	42.6	44.3	44.6	45.0	45.3	45.6	6.1	5.3	3.8	2.9	3.8
Others	1.62	3.97	8.53	9.83	11.80	14.01	16.35	18.73	13.0	14.1	17.2	15.9	15.9	15.9	16.0	16.1	6.9	2.9	3.6	2.9	3.2
Non-energy	0.84	2.25	5.93	9.34	10.93	12.76	14.64	16.53	6.7	8.0	12.0	15.1	14.7	14.5	14.3	14.2	8.1	9.5	3.2	2.6	4.2
Total	12.52	28.13	49.52	61.72	74.20	88.29	102.39	116.25	100	100	100	100	100	100	100	100	5.7	4.5	3.6	2.8	3.5
Coal	0.51	0.99	1.78	2.07	2.46	2.84	3.20	3.54	4.1	3.5	3.6	3.4	3.3	3.2	3.1	3.0	5.1	3.1	3.2	2.3	2.8
Oil	9.19	18.01	26.39	32.54	38.80	45.87	52.81	59.61	73.5	64.0	53.3	52.7	52.3	52.0	51.6	51.3	4.3	4.3	3.5	2.7	3.3
Natural gas	1.09	3.86	9.56	13.34	16.49	20.12	23.74	27.23	8.7	13.7	19.3	21.6	22.2	22.8	23.2	23.4	9.1	6.9	4.2	3.1	4.3
Electricity	1.72	5.26	11.40	12.70	15.21	18.01	20.99	24.02	13.7	18.7	23.0	20.6	20.5	20.4	20.5	20.7	7.9	2.2	3.6	2.9	3.0
Heat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.00	0.00	0.39	1.07	1.25	1.45	1.65	1.85	0.0	0.0	0.8	1.7	1.7	1.6	1.6	1.6	-	22.5	3.1	2.5	6.5

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	23.02	66.65	150.37	166.57	200.49	236.20	273.90	312.18	100	100	100	100	100	100	100	100	7.8	2.1	3.6	2.8	3.0
Coal	2.93	7.69	63.47	68.08	74.10	84.83	100.03	113.92	12.7	11.5	42.2	40.9	37.0	35.9	35.5	35.5	13.1	1.4	2.2	3.0	2.4
Oil	10.56	3.01	1.74	1.91	1.60	1.61	1.66	1.65	45.9	4.5	1.2	1.1	0.8	0.7	0.6	0.5	-7.0	1.9	-1.7	0.3	-0.2
Natural gas	5.54	48.99	69.96	70.89	90.18	114.12	136.18	152.28	24.1	73.5	46.5	42.6	45.0	48.3	49.7	48.8	10.7	0.3	4.9	2.9	3.2
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	-	-	-
Hydro	3.99	6.97	14.17	17.58	24.61	25.17	25.32	25.32	17.3	10.5	9.4	10.6	12.3	10.7	9.2	8.1	5.2	4.4	3.7	0.1	2.4
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.00	0.00	1.02	8.12	10.00	10.48	10.71	10.73	0.0	0.0	0.7	4.9	5.0	4.4	3.9	3.4	-	51.3	2.6	0.2	9.9

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	5.16	13.86	31.09	29.66	32.64	37.31	42.40	46.00	100	100	100	100	100	100	100	100	7.4	-0.9	2.3	2.1	1.6
Coal	0.81	1.50	15.59	15.47	16.10	17.58	19.84	21.77	15.7	10.8	50.2	52.1	49.3	47.1	46.8	47.3	12.5	-0.2	1.3	2.2	1.3
Oil	2.99	0.78	0.45	0.50	0.42	0.42	0.43	0.43	57.9	5.7	1.5	1.7	1.3	1.1	1.0	0.9	-7.3	1.9	-1.7	0.3	-0.2
Natural gas	1.36	11.58	15.04	13.70	16.13	19.31	22.12	23.81	26.4	83.6	48.4	46.2	49.4	51.8	52.2	51.7	10.1	-1.8	3.5	2.1	1.9

Thermal efficiency

	%								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	31.7	37.0	37.4	40.8	43.7	46.2	48.3	50.1									0.7	1.8	1.2	0.8	1.2
Coal	31.0	44.2	35.0	37.9	39.6	41.5	43.4	45.0									0.5	1.6	0.9	0.8	1.0
Oil	30.4	33.0	33.0	33.0	33.0	33.0	33.0	33.0									0.3	0.0	0.0	0.0	0.0
Natural gas	35.0	36.4	40.0	44.5	48.1	50.8	52.9	55.0									0.5	2.1	1.3	0.8	1.3

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	13.6	30.7	52.0	53.0	61.8	71.6	80.1	90.3	100	100	100	100	100	100	100	100	5.5	0.4	3.0	2.4	2.2
Coal	1.4	2.6	18.5	15.2	16.4	17.2	17.2	19.8	10.3	8.5	35.6	28.6	26.5	24.1	21.4	21.9	10.9	-3.9	1.3	1.4	0.3
Oil	10.3	15.7	20.6	25.6	30.6	36.4	42.0	47.5	75.7	51.1	39.7	48.3	49.5	50.8	52.5	52.6	2.8	4.4	3.6	2.7	3.4
Natural gas	1.9	12.4	12.9	12.2	14.8	18.0	20.9	23.0	14.0	40.4	24.7	23.1	23.9	25.1	26.1	25.5	7.9	-1.0	3.9	2.5	2.4

Energy and economic indicators

									Share, %								AAGR (%)	
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Myanmar (BAU)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	10.68	12.84	19.85	23.39	26.23	30.94	35.72	41.79	100	100	100	100	100	100	100	100	2.5	3.3	2.8	3.1	3.0
Coal	0.07	0.32	0.38	0.48	0.59	3.92	4.77	6.84	0.6	2.5	1.9	2.1	2.2	12.7	13.4	16.4	7.1	5.3	23.2	5.7	12.3
Oil	0.73	1.97	5.47	7.11	8.87	10.85	13.18	16.00	6.8	15.4	27.6	30.4	33.8	35.1	36.9	38.3	8.4	5.4	4.3	4.0	4.4
Natural gas	0.76	1.20	3.08	4.48	4.59	3.84	4.92	5.77	7.1	9.3	15.5	19.1	17.5	12.4	13.8	13.8	5.8	7.8	-1.5	4.2	2.5
Nuclear	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.10	0.16	0.81	0.90	1.38	1.15	1.41	1.58	1.0	1.3	4.1	3.9	5.3	3.7	4.0	3.8	8.6	2.2	2.5	3.2	2.7
Geothermal	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	9.02	9.19	10.11	10.41	10.80	11.18	11.43	11.60	84.5	71.5	50.9	44.5	41.2	36.1	32.0	27.8	0.5	0.6	0.7	0.4	0.6
Biomass	9.02	9.19	10.11	10.40	10.76	11.12	11.36	11.51	84.5	71.5	50.9	44.5	41.0	35.9	31.8	27.6	0.5	0.6	0.7	0.4	0.5
Solar, Wind, Ocean	-	-	0.00	0.00	0.04	0.06	0.08	0.09	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	-	-	32.6	3.2	-
Biofuels	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	9.400	11.477	17.734	20.557	23.574	26.922	30.740	35.290	100	100	100	100	100	100	100	100	2.6	3.0	2.7	2.7	2.8
Industry	0.39	1.15	2.17	3.05	3.86	4.76	5.79	7.01	4.2	10.0	12.3	14.8	16.4	17.7	18.8	19.9	7.1	7.0	4.6	3.9	4.8
Transportation	0.44	1.16	3.53	4.88	6.42	8.19	10.29	12.86	4.7	10.1	19.9	23.8	27.2	30.4	33.5	36.4	8.6	6.7	5.3	4.6	5.3
Others	8.47	9.08	11.76	12.33	12.92	13.50	14.09	14.71	90.1	79.1	66.3	60.0	54.8	50.2	45.8	41.7	1.3	0.9	0.9	0.9	0.9
Non-energy	0.09	0.09	0.27	0.30	0.37	0.46	0.57	0.71	1.0	0.8	1.5	1.4	1.6	1.7	1.9	2.0	4.2	2.2	4.6	4.4	4.0
Total	9.40	11.48	17.73	20.56	23.57	26.92	30.74	35.29	100	100	100	100	100	100	100	100	2.6	3.0	2.7	2.7	2.8
Coal	0.05	0.32	0.38	0.46	0.54	0.63	0.72	0.82	0.5	2.8	2.1	2.2	2.3	2.3	2.3	2.3	8.3	4.0	3.3	2.7	3.2
Oil	0.59	1.53	5.43	7.02	8.76	10.74	13.05	15.85	6.2	13.3	30.6	34.2	37.2	39.9	42.4	44.9	9.3	5.3	4.3	4.0	4.4
Natural gas	0.23	0.32	0.71	0.92	1.21	1.57	1.99	2.51	2.4	2.8	4.0	4.5	5.1	5.8	6.5	7.1	4.7	5.4	5.5	4.8	5.2
Electricity	0.15	0.28	1.15	1.83	2.44	3.12	3.93	4.93	1.6	2.4	6.5	8.9	10.3	11.6	12.8	14.0	8.5	9.7	5.5	4.7	6.0
Heat	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	8.39	9.02	10.07	10.34	10.62	10.86	11.05	11.18	89.2	78.6	56.8	50.3	45.1	40.4	36.0	31.7	0.7	0.5	0.5	0.3	0.4

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	2.48	5.12	15.97	23.62	31.50	40.33	50.48	63.00	100	100	100	100	100	100	100	100	7.7	8.2	5.5	4.6	5.6
Coal	0.04	0.00	0.00	0.12	0.20	14.54	17.91	26.61	1.6	0.0	0.0	0.5	0.6	36.0	35.5	42.2	-100.0	-	61.6	6.2	-
Oil	0.27	0.69	0.06	0.10	0.06	0.00	0.00	0.00	10.9	13.5	0.3	0.4	0.2	0.0	0.0	0.0	-6.2	11.7	-100.0	-	-100.0
Natural gas	0.97	2.54	6.51	12.59	13.69	9.30	12.30	13.74	39.3	49.5	40.8	53.3	43.5	23.1	24.4	21.8	7.9	14.1	-3.0	4.0	3.0
Nuclear	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	1.19	1.89	9.40	10.49	16.02	13.37	16.43	18.35	48.1	37.0	58.9	44.4	50.8	33.2	32.5	29.1	8.6	2.2	2.5	3.2	2.7
Geothermal	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	-	-	0.00	0.33	1.53	3.13	3.84	4.29	0.0	0.0	0.0	1.4	4.9	7.8	7.6	6.8	-	-	25.2	3.2	-

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.51	0.94	2.03	3.33	3.16	5.29	6.70	8.97	100	100	100	100	100	100	100	100	5.7	10.4	4.7	5.4	6.1
Coal	0.01	0.00	0.00	0.03	0.05	3.29	4.05	6.02	2.4	0.0	0.0	0.9	1.6	62.2	60.5	67.1	-100.0	-	60.3	6.2	-
Oil	0.06	0.19	0.01	0.03	0.01	0.00	0.00	0.00	12.5	20.6	0.7	0.8	0.5	0.0	0.0	0.0	-5.8	11.7	-100.0	-	-100.0
Natural gas	0.43	0.74	2.02	3.28	3.10	2.00	2.64	2.95	85.1	79.4	99.3	98.4	98.0	37.8	39.5	32.9	6.3	10.2	-4.8	4.0	1.5

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	21.7	29.6	27.8	33.0	37.9	38.8	38.8	38.7									1.0	3.5	1.6	0.0	1.3
Coal	28.7	-	-	35.2	35.2	38.0	38.0	38.0									-	-	0.8	0.0	-
Oil	36.4	30.8	32.7	32.7	-	-	-	-									-0.4	0.0	-	-	-
Natural gas	19.3	29.3	27.7	33.0	38.0	40.0	40.0	40.0									1.5	3.5	1.9	0.0	1.5

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.1	2.4	6.6	8.9	10.4	15.1	18.5	23.4	100	100	100	100	100	100	100	100	7.3	6.3	5.4	4.5	5.2
Coal	0.1	0.3	0.4067	0.5255	0.6389	4.2362	5.1606	7.3975	8.9	12.5	6.2	5.9	6.1	28.1	28.0	31.6	5.8	5.3	23.2	5.7	12.3
Oil	0.6	1.4	4.3403	5.6188	6.9917	8.5462	10.371	12.588	50.0	58.3	66.0	63.0	67.0	56.7	56.2	53.9	8.5	5.3	4.3	3.9	4.4
Natural gas	0.5	0.7	1.8262	2.7749	2.812	2.28	2.9211	3.3896	41.1	29.2	27.8	31.1	26.9	15.1	15.8	14.5	5.7	8.7	-1.9	4.0	2.5

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	8	16	71	100	139	185	242	316	9.1	7.2	6.3	5.5	6.2
Population (millions of people)	41	46	52	55	57	59	61	63	1.0	0.9	0.8	0.5	0.7
GDP per capita (thousands of 2010 US\$/person)	0.2	0.3	1.3	1.83	2.4	3.1	4.0	5.1	8.0	6.3	5.5	4.9	5.4
Primary energy consumption per capita (toe/person)	0.3	0.3	0.4	0.43	0.46	0.52	0.58	0.67	1.5	2.4	2.0	2.5	2.3
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	1,333	803	281	234	189	167	148	132	-6.0	-3.6	-3.3	-2.3	-3.0
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	1,173	718	251	206	170	145	127	112	-6.0	-3.9	-3.4	-2.6	-3.2
CO ₂ emissions per unit of GDP (t-C/million 2010 US dollars)	140	150	93	89	75	81	76	74	-1.6	-0.9	-0.9	-1.0	-0.9
CO ₂ emissions per unit of primary energy consumption (t-C/toe)	0.1	0.2	0.3	0.38	0.40	0.49	0.52	0.56	4.7	2.9	2.5	1.4	2.1
Automobile ownership volume (millions of vehicles)									-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

Myanmar (APS)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	10.68	12.84	19.85	22.77	24.35	25.70	29.35	33.15	100	100	100	100	100	100	100	100	2.5	2.8	1.2	2.6	2.1
Coal	0.07	0.32	0.38	0.46	0.53	0.59	0.68	0.80	0.6	2.5	1.9	2.0	2.2	2.3	2.3	2.4	7.1	4.3	2.4	3.1	3.1
Oil	0.73	1.97	5.47	6.83	8.06	9.31	11.30	13.70	6.8	15.4	27.6	30.0	33.1	36.2	38.5	41.3	8.4	4.5	3.2	3.9	3.7
Natural gas	0.76	1.20	3.08	4.27	4.01	3.39	4.33	4.89	7.1	9.3	15.5	18.7	16.5	13.2	14.7	14.7	5.8	6.8	-2.3	3.7	1.9
Nuclear	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.10	0.16	0.81	0.95	1.30	1.47	1.80	2.23	1.0	1.3	4.1	4.2	5.3	5.7	6.1	6.7	8.6	3.3	4.5	4.2	4.1
Geothermal	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	9.02	9.19	10.11	10.26	10.45	10.94	11.24	11.53	84.5	71.5	50.9	45.0	42.9	42.6	38.3	34.8	0.5	0.3	0.6	0.5	0.5
Biomass	9.02	9.19	10.11	10.25	10.41	10.74	11.00	11.23	84.5	71.5	50.9	45.0	42.8	41.8	37.9	33.9	0.5	0.3	0.5	0.5	0.4
Solar, Wind, Ocean	-	-	0.00	0.00	0.03	0.20	0.24	0.30	0.0	0.0	0.0	0.0	0.1	0.8	0.8	0.9	-	-	49.9	4.2	-
Biofuels	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	9.40	11.48	17.73	19.97	21.97	23.93	27.17	31.02	100	100	100	100	100	100	100	100	2.6	2.4	1.8	2.6	2.3
Industry	0.39	1.15	2.17	2.92	3.49	4.03	4.88	5.89	4.2	10.0	12.3	14.6	15.9	16.8	18.0	19.0	7.1	6.1	3.3	3.9	4.1
Transportation	0.44	1.16	3.53	4.69	5.83	7.01	8.79	10.98	4.7	10.1	19.9	23.5	26.5	29.3	32.3	35.4	8.6	5.8	4.1	4.6	4.6
Others	8.47	9.08	11.76	12.07	12.28	12.43	12.92	13.44	90.1	79.1	66.3	60.4	55.9	51.9	47.6	43.3	1.3	0.5	0.3	0.8	0.5
Non-energy	0.09	0.09	0.27	0.30	0.37	0.46	0.57	0.71	1.0	0.8	1.5	1.5	1.7	1.9	2.1	2.3	4.2	2.2	4.6	4.4	4.0
Total	9.40	11.48	17.73	19.97	21.97	23.93	27.17	31.02	100	100	100	100	100	100	100	100	2.6	2.4	1.8	2.6	2.3
Coal	0.05	0.32	0.38	0.44	0.49	0.53	0.61	0.70	0.5	2.8	2.1	2.2	2.2	2.2	2.3	2.3	8.3	3.1	2.0	2.7	2.5
Oil	0.59	1.53	5.43	6.74	7.96	9.20	11.17	13.55	6.2	13.3	30.6	33.7	36.2	38.5	41.1	43.7	9.3	4.4	3.2	3.9	3.7
Natural gas	0.23	0.32	0.71	0.88	1.11	1.37	1.75	2.20	2.4	2.8	4.0	4.4	5.1	5.7	6.4	7.1	4.7	4.6	4.5	4.8	4.7
Electricity	0.15	0.28	1.15	1.72	2.12	2.50	3.14	3.94	1.6	2.4	6.5	8.6	9.7	10.4	11.6	12.7	8.5	8.4	3.8	4.7	5.0
Heat	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	8.39	9.02	10.07	10.19	10.28	10.32	10.50	10.62	89.2	78.6	56.8	51.0	46.8	43.1	38.7	34.2	0.7	0.2	0.1	0.3	0.2

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	2.48	5.12	15.97	23.48	28.40	32.62	40.61	50.40	100	100	100	100	100	100	100	100	7.7	8.0	3.3	4.4	4.7
Coal	0.04	0.00	0.00	0.11	0.19	0.26	0.37	0.52	1.6	0.0	0.0	0.5	0.7	0.8	0.9	1.0	-100.0	-	8.6	7.3	-
Oil	0.27	0.69	0.06	0.09	0.05	0.00	0.00	0.00	10.9	13.5	0.3	0.4	0.2	0.0	0.0	0.0	-6.2	10.5	-100.0	-	-100.0
Natural gas	0.97	2.54	6.51	11.93	11.60	8.57	11.24	13.93	39.3	49.5	40.8	50.8	40.8	26.3	27.7	27.6	7.9	12.9	-3.3	5.0	3.1
Nuclear	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	1.19	1.89	9.40	11.04	15.11	17.14	20.88	25.89	48.1	37.0	58.9	47.0	53.2	52.5	51.4	51.4	8.6	3.3	4.5	4.2	4.1
Geothermal	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	-	-	0.00	0.31	1.45	6.66	8.11	10.05	0.0	0.0	0.0	1.3	5.1	20.4	20.0	19.9	-	-	35.8	4.2	-

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	0.51	0.94	2.03	3.16	2.68	1.81	2.37	2.50	100	100	100	100	100	100	100	100	5.7	9.2	-5.4	3.3	0.8
Coal	0.01	0.00	0.00	0.03	0.04	0.05	0.07	0.10	2.4	0.0	0.0	0.9	1.5	2.9	3.0	4.0	-100.0	-	6.7	6.5	-
Oil	0.06	0.19	0.01	0.02	0.01	0.00	0.00	0.00	12.5	20.6	0.7	0.8	0.5	0.0	0.0	0.0	-5.8	10.5	-100.0	-	-100.0
Natural gas	0.43	0.74	2.02	3.11	2.62	1.75	2.30	2.40	85.1	79.4	99.3	98.4	98.0	97.1	97.0	96.0	6.3	9.0	-5.6	3.2	0.7

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040									1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	21.7	29.6	27.8	33.0	38.0	42.0	42.1	49.8									1.0	3.5	2.4	1.7	2.4
Coal	28.7	-	-	35.2	42.0	42.0	45.0	45.0									-	-	1.8	0.7	-
Oil	36.4	30.8	32.7	32.7	32.7	-	-	-									-0.4	0.0	-	-	-
Natural gas	19.3	29.3	27.7	33.0	38.0	42.0	42.0	50.0									1.5	3.5	2.4	1.8	2.4

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.1	2.4	6.6	8.5	9.4	9.9	12.1	14.4	100	100	100	100	100	100	100	100	7.3	5.4	1.5	3.8	3.2
Coal	0.1	0.3	0.4	0.5	0.6	0.6	0.7	0.9	8.9	12.5	6.2	5.9	6.1	6.4	6.1	6.0	5.8	4.3	2.4	3.1	3.1
Oil	0.6	1.4	4.3	5.4	6.3	7.3	8.9	10.7	50.0	58.3	66.0	63.2	67.8	73.5	73.0	74.4	8.5	4.4	3.1	3.9	3.7
Natural gas	0.5	0.7	1.8	2.6	2.4	2.0	2.5	2.8	41.1	29.2	27.8	31.0	26.1	20.1	20.9	19.6	5.7	7.7	-2.8	3.5	1.8

Energy and economic indicators

										AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
GDP (billions of 2010 US dollars)	8.0	16.0	70.5	101.2	140.8	188.6	244.2	316.2	9.1	7.5	6.4	5.3	6.2	
Population (millions of people)	40.6	46.1	52.4	57.1	60.1	63.0	66.0	66.0	1.0	1.7	1.0	0.5	0.9	
GDP per capita (thousands of 2010 US\$/person)	0.2	0.3	1.3	1.77	2.3	3.0	3.7	4.8	8.0	5.6	5.4	4.8	5.2	
Primary energy consumption per capita (toe/person)	0.3	0.3	0.4	0.40	0.41	0.41	0.44	0.50	1.5	1.0	0.2	2.1	1.1	
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	1,333	803	281	225	173	136	120	105	-6.0	-4.4	-4.9	-2.6	-3.9	
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	1,173	718	251	197	156	127	111	98	-6.0	-4.7	-4.3	-2.5	-3.7	
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	140	150	93	84	66	53	50	46	-1.6	-2.0	-4.6	-1.4	-2.8	
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.1	0.2	0.3	0.37	0.38	0.39	0.41	0.44	4.7	2.5	0.3	1.2	1.1	
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-	
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-	

New Zealand (BAU)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	12.8	17.1	20.6	21.8	23.0	24.0	24.3	24.6	100	100	100	100	100	100	100	100	1.9	1.1	1.0	0.2	0.7
Coal	1.2	1.1	1.4	0.8	0.7	0.7	0.7	0.7	9.2	6.5	6.6	3.7	3.2	3.0	2.8	2.6	0.6	-10.3	-1.1	-0.9	-2.9
Oil	3.5	5.7	6.8	6.9	6.9	6.8	6.7	6.5	27.4	33.4	32.8	31.8	30.1	28.5	27.4	26.2	2.7	0.4	-0.1	-0.6	-0.2
Natural gas	3.9	5.1	4.1	4.6	4.6	4.4	4.4	4.4	30.2	29.6	19.8	21.2	19.9	18.3	18.1	17.8	0.2	2.5	-0.5	0.0	0.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	15.5	12.3	10.2	9.5	9.1	8.9	8.9	8.9	0.2	-0.4	0.3	0.3	0.2
Geothermal	1.5	1.9	4.9	5.8	7.0	8.2	8.7	9.1	11.5	11.4	23.6	26.8	30.5	34.3	35.6	37.0	4.9	3.7	3.5	1.0	2.5
Others	0.8	1.2	1.4	1.5	1.6	1.7	1.8	1.8	6.2	6.9	6.9	7.1	7.1	7.1	7.3	7.4	2.3	1.6	1.1	0.6	1.0
Biomass	0.7	1.1	1.1	1.2	1.2	1.2	1.2	1.2	5.6	6.4	5.3	5.4	5.3	5.0	4.9	4.8	1.7	1.5	0.2	-0.2	0.3
Solar, Wind, Ocean	0.0	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.3	0.3	1.2	1.2	1.4	1.6	1.8	2.0	7.2	1.2	3.9	2.3	2.7
Biofuels	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.4	0.4	0.4	0.5	0.5	0.6	2.6	4.7	2.1	2.0	2.6
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	9.7	12.9	14.1	14.6	14.8	14.9	14.8	14.7	100	100	100	100	100	100	100	100	1.5	0.7	0.2	-0.1	0.2
Industry	3.6	4.3	4.3	4.5	4.6	4.6	4.5	4.5	37.0	32.9	30.8	31.1	30.9	30.7	30.6	30.5	0.8	0.9	0.1	-0.2	0.1
Transportation	3.0	4.1	4.8	4.9	4.9	4.9	4.8	4.7	30.4	31.4	34.2	33.7	33.3	32.9	32.5	32.0	2.0	0.4	0.0	-0.4	-0.1
Others	2.5	3.0	3.5	3.7	3.9	4.0	4.0	4.1	26.2	23.0	24.9	25.5	26.1	26.7	27.2	27.7	1.3	1.1	0.6	0.3	0.6
Non-energy	0.6	1.6	1.4	1.4	1.4	1.4	1.4	1.4	6.4	12.7	10.0	9.8	9.7	9.7	9.7	9.8	3.4	0.2	0.1	-0.1	0.0
Total	9.7	12.9	14.1	14.6	14.8	14.9	14.8	14.7	100	100	100	100	100	100	100	100	1.5	0.7	0.2	-0.1	0.2
Coal	0.7	0.5	0.6	0.6	0.6	0.6	0.6	0.5	6.9	4.0	4.3	4.3	4.2	4.1	3.9	3.7	-0.4	0.7	-0.3	-1.1	-0.4
Oil	4.0	5.3	6.2	6.4	6.4	6.3	6.1	5.9	41.4	41.0	44.1	43.6	43.0	42.2	41.2	40.2	1.8	0.5	-0.1	-0.6	-0.2
Natural gas	1.8	3.0	2.7	2.7	2.6	2.6	2.6	2.6	18.5	23.3	19.1	18.3	17.9	17.7	17.7	17.7	1.6	-0.1	-0.2	-0.1	-0.1
Electricity	2.4	2.9	3.4	3.7	3.9	4.1	4.3	4.4	25.0	22.8	23.9	25.1	26.3	27.4	28.7	30.0	1.3	1.7	1.1	0.8	1.1
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.8	1.2	1.204	1.3	1.3	1.3	1.3	1.221	8.1	9.0	8.6	8.7	8.7	8.6	8.5	8.3	1.7	1.1	0.0	-0.4	0.1

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	32.3	39.2	44.2	48.0	51.1	53.5	55.7	57.6	100	100	100	100	100	100	100	100	1.3	1.7	1.1	0.8	1.1
Coal	0.7	1.5	1.9	0.2	0.0	0.0	0.0	0.0	2.1	3.9	4.3	0.4	0.0	0.0	0.0	0.0	4.3	-37.8	-100.0	-	-100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.8	4.1	-0.9	0.6	0.7
Natural gas	5.7	9.6	6.9	10.5	10.6	9.8	10.2	10.4	17.7	24.4	15.5	21.9	20.8	18.3	18.4	18.0	0.7	8.9	-0.7	0.6	1.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	23.2	24.4	24.5	24.1	24.4	24.8	25.2	25.5	71.9	62.3	55.5	50.1	47.8	46.4	45.2	44.3	0.2	-0.4	0.3	0.3	0.2
Geothermal	2.1	2.9	7.9	9.5	11.4	13.5	14.2	14.9	6.6	7.4	17.8	19.7	22.4	25.2	25.5	25.9	5.4	3.8	3.6	1.0	2.6
Others	0.6	0.8	3.1	3.8	4.6	5.4	6.1	6.8	1.8	2.0	6.9	7.9	9.0	10.1	10.9	11.7	7.0	4.3	3.6	2.3	3.2

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.4	2.3	1.7	1.8	1.7	1.6	1.6	1.6	100	100	100	100	100	100	100	100	0.7	1.7	-1.3	0.0	-0.2
Coal	0.2	0.4	0.5	0.0	0.0	0.0	0.0	0.0	11.9	16.7	27.1	2.3	0.0	0.0	0.0	0.0	0.0	-37.7	-100.0	-	-100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-100.0	-	-1.9	-1.0	-
Natural gas	1.2	1.9	1.2	1.8	1.7	1.6	1.6	1.6	87.7	83.3	72.9	97.6	100.0	100.0	100.0	100.0	-0.1	7.8	-1.1	0.0	1.1

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	38.8	42.0	45.2	50.9	52.5	53.2	54.9	56.2									0.6	2.4	0.4	0.6	0.9
Coal	33.9	34.8	35.8	35.5	-	-	-	-									0.2	-0.1	-	-	-
Oil	44.1	-	-	25.5	26.9	28.2	30.8	33.0									-	-	1.0	1.6	-
Natural gas	39.6	43.4	48.7	51.3	52.5	53.2	54.9	56.2									0.8	1.0	0.4	0.6	0.6

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	6.2	8.1	8.8	8.6	8.5	8.3	8.1	7.9	100	100	100	100	100	100	100	100	1.4	-0.4	-0.4	-0.5	-0.4
Coal	1.3	1.2	1.5	0.9	0.8	0.8	0.7	0.7	20.5	14.7	16.8	10.0	9.3	9.3	9.1	8.9	0.6	-10.3	-1.1	-0.9	-2.9
Oil	2.7	4.5	5.4	5.5	5.5	5.4	5.3	5.1	42.8	55.8	61.2	63.7	64.5	65.3	65.0	64.9	2.8	0.4	-0.1	-0.6	-0.2
Natural gas	2.3	2.4	1.9	2.3	2.2	2.1	2.1	2.1	36.7	29.4	21.9	26.3	26.2	25.4	26.0	26.5	-0.7	3.3	-0.7	-0.1	0.3

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	85	114	169	196	219	238	258	276	2.8	3.0	2.0	1.5	2.0
Population (millions of people)	3.3	3.9	4.6	4.8	5.0	5.2	5.3	5.5	13	0.9	0.8	0.5	0.7
GDP per capita (thousands of 2010 US\$/person)	25.42	29.60	36.80	40.76	43.7	45.9	48.2	50.4	15	2.1	1.2	0.9	1.3
Primary energy consumption per capita (toe/person)	3.85	4.43	4.4881	4.53	4.59	4.63	4.55	4.4892	0.6	0.2	0.2	-0.3	0.0
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	152	150	122	111	105	101	95	89	-0.9	-1.9	-1.0	-1.2	-1.2
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	115	113	83	74	68	62	57	53	-1.3	-2.2	-1.7	-1.6	-1.8
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	74	71	52	44	39	35	32	29	-1.4	-3.3	-2.3	-1.9	-2.3
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.49	0.47	0.43	0.40	0.37	0.35	0.33	0.32	-0.5	-1.5	-1.3	-0.7	-1.1
Automobile ownership volume (millions of vehicles)	2	3	4	4	4	4	4	5	2.9	1.6	0.9	0.6	0.9
Automobile ownership volume per capita (vehicles per person)	0.538	0.672	0.799	0.827	0.836	0.838	0.840	0.842	1.6	0.7	0.1	0.0	0.2

New Zealand (APS)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	12.8	17.1	20.6	22.2	23.0	23.5	23.4	23.2	100	100	100	100	100	100	100	100	1.9	1.4	0.6	-0.1	0.5
Coal	1.2	1.1	1.4	0.8	0.7	0.7	0.7	0.6	9.2	6.5	6.6	3.5	3.1	2.9	2.8	2.6	0.6	-10.7	-1.1	-1.3	-3.2
Oil	3.5	5.7	6.8	6.8	6.6	6.2	5.7	5.2	27.4	33.4	32.8	30.8	28.8	26.5	24.5	22.4	2.7	0.2	-0.9	-1.8	-1.0
Natural gas	3.9	5.1	4.1	4.2	4.0	3.7	3.6	3.4	30.2	29.6	19.8	19.0	17.5	15.9	15.4	14.8	0.2	0.6	-1.1	-0.9	-0.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	15.5	12.3	10.2	9.3	9.1	9.1	9.3	9.4	0.2	-0.4	0.3	0.3	0.2
Geothermal	1.5	1.9	4.9	6.7	7.8	8.9	9.3	9.8	11.5	11.4	23.6	30.1	33.8	37.7	40.0	42.3	4.9	6.5	2.9	1.1	2.9
Others	0.8	1.2	1.4	1.6	1.7	1.8	1.9	2.0	6.2	6.9	6.9	7.3	7.6	7.8	8.1	8.5	2.3	2.6	1.2	0.7	1.3
Biomass	0.7	1.1	1.1	1.2	1.2	1.2	1.1	1.1	5.6	6.4	5.3	5.3	5.2	5.0	4.9	4.7	1.7	1.4	0.0	-0.7	0.0
Solar, Wind, Ocean	0.0	0.1	0.3	0.3	0.4	0.4	0.5	0.6	0.3	0.3	1.2	1.4	1.6	1.9	2.2	2.4	7.2	4.3	3.6	2.5	3.3
Biofuels	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.6	0.7	0.9	1.1	1.3	2.6	11.7	5.2	3.5	5.8
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	9.7	12.9	14.1	14.5	14.4	14.1	13.7	13.2	100	100	100	100	100	100	100	100	1.5	0.5	-0.2	-0.7	-0.3
Industry	3.6	4.3	4.3	4.5	4.5	4.4	4.3	4.1	37.0	32.9	30.8	31.2	31.2	31.3	31.5	31.5	0.8	0.7	-0.2	-0.6	-0.2
Transportation	3.0	4.1	4.8	4.9	4.7	4.5	4.2	3.9	30.4	31.4	34.2	33.6	32.8	31.8	30.5	29.3	2.0	0.2	-0.8	-1.5	-0.9
Others	2.5	3.0	3.5	3.7	3.8	3.8	3.8	3.7	26.2	23.0	24.9	25.4	26.0	26.7	27.5	28.3	1.3	0.9	0.3	-0.1	0.2
Non-energy	0.6	1.6	1.4	1.4	1.4	1.4	1.4	1.4	6.4	12.7	10.0	9.9	10.0	10.2	10.5	10.9	3.4	0.2	0.1	-0.1	0.0
Total	9.7	12.9	14.1	14.5	14.4	14.1	13.7	13.2	100	100	100	100	100	100	100	100	1.5	0.5	-0.2	-0.7	-0.3
Coal	0.7	0.5	0.6	0.6	0.6	0.6	0.5	0.5	6.9	4.0	4.3	4.3	4.2	4.2	4.0	3.8	-0.4	0.5	-0.6	-1.5	-0.7
Oil	4.0	5.3	6.2	6.3	6.1	5.7	5.2	4.7	41.4	41.0	44.1	43.3	42.1	40.4	38.2	35.9	1.8	0.2	-0.9	-1.9	-1.1
Natural gas	1.8	3.0	2.7	2.7	2.6	2.6	2.5	2.5	18.5	23.3	19.1	18.4	18.1	18.1	18.4	18.7	1.6	-0.2	-0.4	-0.4	-0.4
Electricity	2.4	2.9	3.4	3.6	3.8	4.0	4.1	4.2	25.0	22.8	23.9	25.1	26.4	28.0	29.9	31.9	1.3	1.5	0.9	0.6	0.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.8	1.2	1.2	1.3	1.3	1.3	1.3	1.3	8.1	9.0	8.6	8.9	9.1	9.3	9.5	9.7	1.7	1.3	0.2	-0.3	0.2

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	32.3	39.2	44.2	47.6	50.0	51.7	53.4	54.8	100	100	100	100	100	100	100	100	1.3	1.5	0.8	0.6	0.9
Coal	0.7	1.5	1.9	0.1	0.0	0.0	0.0	0.0	2.1	3.9	4.3	0.3	0.0	0.0	0.0	0.0	4.3	-40.9	-100.0	-	-100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.8	-1.2	-2.6	-1.7	-2.0
Natural gas	5.7	9.6	6.9	8.1	7.6	6.3	6.0	5.3	17.7	24.4	15.5	17.1	15.3	12.3	11.2	9.7	0.7	3.5	-2.5	-1.7	-1.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	23.2	24.4	24.5	24.1	24.4	24.8	25.2	25.5	71.9	62.3	55.5	50.6	48.9	47.9	47.1	46.6	0.2	-0.4	0.3	0.3	0.2
Geothermal	2.1	2.9	7.9	10.9	12.7	14.5	15.4	16.2	6.6	7.4	17.8	22.9	25.4	28.1	28.8	29.6	5.4	6.7	2.9	1.1	2.9
Others	0.6	0.8	3.1	4.3	5.2	6.1	6.9	7.7	1.8	2.0	6.9	9.1	10.4	11.8	12.9	14.0	7.0	7.2	3.4	2.4	3.7

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.4	2.3	1.7	1.4	1.2	1.0	0.9	0.8	100	100	100	100	100	100	100	100	0.7	-3.5	-3.1	-2.3	-2.9
Coal	0.2	0.4	0.5	0.0	0.0	0.0	0.0	0.0	11.9	16.7	27.1	2.3	0.0	0.0	0.0	0.0	4.0	-40.9	-100.0	-	-100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-100.0	-	-3.7	-3.3	-
Natural gas	1.2	1.9	1.2	1.4	1.2	1.0	0.9	0.8	87.7	83.3	72.9	97.6	100.0	100.0	100.0	100.0	-0.1	2.3	-2.9	-2.3	-1.6

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040									1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	38.8	42.0	45.2	51.1	52.9	53.7	55.6	57.2									0.6	2.5	0.5	0.6	0.9
Coal	33.9	34.8	35.8	35.7	-	-	-	-									0.2	-0.1	-	-	-
Oil	14.1	-	-	25.6	27.0	28.5	31.2	33.5									-	-	1.1	1.6	-
Natural gas	39.6	43.4	48.7	51.4	52.9	53.7	55.6	57.2									0.8	1.1	0.4	0.6	0.6

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	6.2	8.1	8.8	8.3	7.9	7.4	6.8	6.2	100	100	100	100	100	100	100	100	1.4	-1.2	-1.1	-1.7	-1.4
Coal	1.3	1.2	1.5	0.8	0.8	0.7	0.7	0.7	20.5	14.7	16.8	10.2	9.8	10.1	10.3	10.5	0.6	-10.7	-1.1	-1.3	-3.2
Oil	2.7	4.5	5.4	5.4	5.2	4.9	4.5	4.1	42.8	55.8	61.2	65.6	66.3	66.8	66.1	65.5	2.8	0.1	-0.9	-1.9	-1.1
Natural gas	2.3	2.4	1.9	2.0	1.9	1.7	1.6	1.5	36.7	29.4	21.9	24.3	23.9	23.1	23.6	24.0	-0.7	0.8	-1.6	-1.3	-1.0

Energy and economic indicators

										AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
GDP (billions of 2010 US dollars)	85	114	169	196	219	238	258	276	2.8	3.0	2.0	1.5	2.0	
Population (millions of people)	3	4	5	5	5	5	5	5	1.3	0.9	0.8	0.5	0.7	
GDP per capita (thousands of 2010 US\$/person)	25.42	29.60	36.80	40.76	43.7	45.9	48.2	50.4	1.5	2.1	1.2	0.9	1.3	
Primary energy consumption per capita (toe/person)	3.85	4.43	4.49	4.60	4.59	4.53	4.37	4.24	0.6	0.5	-0.2	-0.6	-0.2	
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	152	150	122	113	105	99	91	84	-0.9	-1.5	-1.4	-1.6	-1.5	
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	115	113	83	74	66	59	53	48	-1.3	-2.4	-2.2	-2.1	-2.2	
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	74	71	52	42	36	31	26	23	-1.4	-4.1	-3.0	-3.1	-3.3	
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.49	0.47	0.43	0.37	0.34	0.31	0.29	0.27	-0.5	-2.7	-1.7	-1.6	-1.8	
Automobile ownership volume (millions of vehicles)	2	3	4	4	4	4	4	5	2.9	1.6	0.9	0.6	0.9	
Automobile ownership volume per capita (vehicles per person)	0.538	0.672	0.799	0.827	0.836	0.838	0.840	0.842	1.6	0.7	0.1	0.0	0.2	

Philippines (BAU)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	25.95	37.42	47.49	59.09	74.03	86.64	100.49	115.81	100	100	100	100	100	100	100	100	2.4	4.5	3.9	2.9	3.6
Coal	0.73	4.11	11.11	14.50	20.88	26.19	31.52	36.45	2.8	11.0	23.4	24.5	28.2	30.2	31.4	31.5	11.5	5.5	6.1	3.4	4.9
Oil	10.92	15.73	16.55	20.34	23.75	27.68	32.56	38.82	42.1	42.0	34.8	34.4	32.1	31.9	32.4	33.5	1.7	4.2	3.1	3.4	3.5
Natural gas	-	0.01	3.00	2.92	3.92	5.42	7.01	9.49	0.0	0.0	6.3	4.9	5.3	6.3	7.0	8.2	-	-0.6	6.4	5.8	4.7
Nuclear	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.52	0.67	0.75	0.99	1.35	1.40	1.47	1.52	2.0	1.8	1.6	1.7	1.8	1.6	1.5	1.3	1.4	5.8	3.6	0.8	2.9
Geothermal	4.70	10.00	9.50	11.85	14.69	16.14	17.38	18.36	18.1	26.7	20.0	20.1	19.8	18.6	17.3	15.9	2.9	4.5	3.1	1.3	2.7
Others	9.08	6.90	6.59	8.48	9.43	9.81	10.54	11.17	35.0	18.4	13.9	14.4	12.7	11.3	10.5	9.6	-1.3	5.2	1.5	1.3	2.1
Biomass	9.07	6.89	6.07	7.63	8.43	8.73	9.35	9.87	34.9	18.4	12.8	12.9	11.4	10.1	9.3	8.5	-1.6	4.7	1.4	1.2	2.0
Solar, Wind, Ocean	-	-	0.08	0.30	0.40	0.42	0.45	0.47	0.0	0.0	0.2	0.5	0.5	0.4	0.4	0.4	-	31.9	3.3	1.1	7.5
Biofuels	0.01	0.01	0.45	0.55	0.60	0.66	0.74	0.84	0.0	0.0	0.9	0.9	0.8	0.8	0.7	0.7	15.8	4.2	1.8	2.5	2.5
Electricity	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	19.65	23.92	29.62	37.60	45.71	53.58	63.00	74.23	100	100	100	100	100	100	100	100	1.7	4.9	3.6	3.3	3.7
Industry	4.66	5.35	7.43	9.80	12.46	15.61	19.38	24.10	23.7	22.4	25.1	26.1	27.3	29.1	30.8	32.5	1.9	5.7	4.8	4.4	4.8
Transportation	4.52	8.10	10.61	12.68	14.33	16.53	19.37	22.95	23.0	33.9	35.8	33.7	31.4	30.9	30.7	30.9	3.5	3.6	2.7	3.3	3.1
Others	10.25	10.19	10.53	13.93	17.57	19.90	22.50	25.20	52.1	42.6	35.6	37.0	38.4	37.1	35.7	33.9	0.1	5.8	3.6	2.4	3.6
Non-energy	0.23	0.27	1.05	1.19	1.35	1.54	1.75	1.99	1.2	1.1	3.5	3.2	3.0	2.9	2.8	2.7	6.3	2.6	2.6	2.6	2.6
Total	19.65	23.92	29.62	37.60	45.71	53.58	63.00	74.23	100	100	100	100	100	100	100	100	1.7	4.9	3.6	3.3	3.7
Coal	0.61	0.77	2.29	3.20	4.44	5.95	7.71	9.9	3.1	3.2	7.7	8.5	9.7	11.1	12.2	13.3	5.4	6.9	6.4	5.2	6.0
Oil	7.92	13.01	15.01	19.01	22.12	26.00	30.85	36.9	40.3	54.4	50.7	50.5	48.4	48.5	49.0	49.7	2.6	4.8	3.2	3.6	3.7
Natural gas	-	0.00	0.05	0.09	0.15	0.26	0.44	0.8	0.0	0.0	0.2	0.2	0.3	0.5	0.7	1.0	-	11.8	11.4	11.5	11.5
Electricity	1.82	3.14	5.83	7.71	10.54	12.63	14.68	16.8	9.3	13.1	19.7	20.5	23.0	23.6	23.3	22.7	4.8	5.7	5.1	2.9	4.3
Heat	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	9.30	7.00	6.44	7.60	8.46	8.73	9.32	9.8	47.3	29.3	21.7	20.2	18.5	16.3	14.8	13.3	-1.5	3.4	1.4	1.2	1.7

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	25.84	45.25	82.41	98.50	134.65	161.47	187.57	215.33	100	100	100	100	100	100	100	100	4.7	3.6	5.1	2.9	3.9
Coal	1.93	16.66	36.69	44.71	65.02	80.03	94.15	105.0	7.5	36.8	44.5	45.4	48.3	49.6	50.2	48.7	12.5	4.0	6.0	2.7	4.3
Oil	12.38	9.14	5.86	5.04	6.17	6.34	6.46	7.4	47.9	20.2	7.1	5.1	4.6	3.9	3.4	3.4	-2.9	-3.0	2.3	1.5	0.9
Natural gas	-	0.02	18.88	18.09	24.14	32.99	42.01	55.8	0.0	0.0	22.9	18.4	17.9	20.4	22.4	25.9	-	-0.9	6.2	5.4	4.4
Nuclear	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	6.06	7.80	8.67	11.51	15.74	16.32	17.05	17.6	23.5	17.2	10.5	11.7	11.7	10.1	9.1	8.2	1.4	5.8	3.6	0.8	2.9
Geothermal	5.47	11.63	11.04	13.79	17.08	18.77	20.21	21.4	21.2	25.7	13.4	14.0	12.7	11.6	10.8	9.9	2.9	4.5	3.1	1.3	2.7
Others	0.00	0.00	1.28	5.36	6.49	7.02	7.67	8.2	0.0	0.0	1.6	5.4	4.8	4.3	4.1	3.8	-	33.2	2.7	1.6	7.7

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	3.10	5.89	13.62	15.37	21.73	26.95	31.97	37.08	100	100	100	100	100	100	100	100	6.1	2.4	5.8	3.2	4.1
Coal	0.56	3.78	9.26	11.31	16.44	20.24	23.81	26.5	18.0	64.3	68.0	73.6	75.7	75.1	74.5	71.6	11.9	4.1	6.0	2.7	4.3
Oil	2.54	2.10	1.41	1.24	1.52	1.56	1.59	1.8	82.0	35.6	10.3	8.1	7.0	5.8	5.0	4.9	-2.3	-2.5	2.3	1.5	1.0
Natural gas	-	0.01	2.95	2.83	3.77	5.16	6.57	8.7	0.0	0.0	21.7	18.4	17.4	19.1	20.5	23.5	-	-0.9	6.2	5.4	4.4

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	39.7	37.7	38.8	37.9	37.7	38.1	38.4	39.0									-0.1	-0.4	0.0	0.2	0.0
Coal	29.8	37.9	34.1	34.0	34.0	34.0	34.0	34.0									0.5	0.0	0.0	0.0	0.0
Oil	41.9	37.5	35.8	35.0	35.0	35.0	35.0	35.0									-0.6	-0.5	0.0	0.0	-0.1
Natural gas	-	16.6	55.0	55.0	55.0	55.0	55.0	55.0									-	0.0	0.0	0.0	0.0

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	28.7	57.0	95.1	118.1	154.7	190.3	229.0	271.6	100	100	100	100	100	100	100	100	4.9	4.4	4.9	3.6	4.3
Coal	4.4	18.0	45.9	57.6	82.9	104.0	125.1	144.6	15.3	31.5	48.3	48.8	53.6	54.6	53.2	52.8	9.8	4.6	6.1	3.4	4.7
Oil	24.3	39.0	42.2	53.6	62.5	73.6	87.5	104.8	84.7	68.4	44.3	45.4	40.4	38.7	38.2	38.6	2.2	4.9	3.2	3.6	3.7
Natural gas	-	0.0	7.0	6.8	9.2	12.7	16.5	22.3	0.0	0.0	7.4	5.8	6.0	6.7	7.2	8.2	-	-0.6	6.4	5.8	4.7

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	94.5	125.3	266.1	368.0	504.1	674.6	881.7	1,146.9	4.2	6.7	6.2	5.4	6.0
Population (millions of people)	61.9	78.0	101.7	109.6	118.0	127.2	137.0	147.6	2.0	1.5	1.5	1.5	1.5
GDP per capita (thousands of 2010 US\$/person)	1.5	1.6	2.6	3.36	4.3	5.3	6.4	7.8	2.2	5.1	4.7	3.9	4.5
Primary energy consumption per capita (toe/person)	0.4	0.5	0.5	0.54	0.63	0.68	0.73	0.78	0.4	2.9	2.4	1.4	2.1
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	275	299	178	161	147	128	114	101	-1.7	-2.1	-2.2	-2.4	-2.3
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	208	191	111	102	91	79	71	65	-2.5	-1.7	-2.5	-2.0	-2.1
CO ₂ emissions per unit of GDP (t-C/million 2010 US dollars)	304	455	358	321	307	282	260	237	0.7	-2.1	-1.3	-1.7	-1.6
CO ₂ emissions per unit of primary energy consumption (t-C/toe)	1.1	1.5	2.0	2.00	2.09	2.20	2.28	2.35	2.4	0.0	0.9	0.7	0.6
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

Philippines (APS)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	25.95	37.42	47.49	54.11	60.10	71.16	83.44	95.05	100	100	100	100	100	100	100	100	2.4	2.6	2.8	2.9	2.8
Coal	0.73	4.11	11.11	11.74	12.03	16.58	21.78	24.17	2.8	11.0	23.4	21.7	20.0	23.3	26.1	25.4	11.5	1.1	3.5	3.8	3.2
Oil	10.92	15.73	16.55	18.45	17.87	21.73	26.64	31.63	42.1	42.0	34.8	34.1	29.7	30.5	31.9	33.3	1.7	2.2	1.6	3.8	2.6
Natural gas	-	0.01	3.00	2.04	2.13	3.00	4.20	4.90	0.0	0.0	6.3	3.8	3.5	4.2	5.0	5.2	-	-7.4	3.9	5.0	2.0
Nuclear	-	-	-	0.00	0.42	1.12	1.49	3.76	0.0	0.0	0.0	0.0	0.7	1.6	1.8	4.0	-	-	106.4	12.8	-
Hydro	0.52	0.67	0.75	0.96	1.33	1.33	1.33	2.08	2.0	1.8	1.6	1.8	2.2	1.9	1.6	2.2	1.4	5.3	3.3	4.6	4.2
Geothermal	4.70	10.00	9.50	12.24	16.37	17.11	17.14	17.14	18.1	26.7	20.0	22.6	27.2	24.0	20.5	18.0	2.9	5.2	3.4	0.0	2.4
Others	9.08	6.90	6.59	8.67	9.95	10.28	10.87	11.38	35.0	18.4	13.9	16.0	16.6	14.5	13.0	12.0	-1.3	5.6	1.7	1.0	2.2
Biomass	9.07	6.89	6.07	7.45	8.27	8.48	8.97	9.39	34.9	18.4	12.8	13.8	13.8	11.9	10.8	9.9	-1.6	4.2	1.3	1.0	1.8
Solar, Wind, Ocean	-	-	0.08	0.63	1.13	1.18	1.18	1.18	0.0	0.0	0.2	1.2	1.9	1.7	1.4	1.2	-	52.7	6.4	0.0	11.6
Biofuels	0.01	0.01	0.45	0.59	0.55	0.62	0.71	0.81	0.0	0.0	0.9	1.1	0.9	0.9	0.9	0.9	15.8	5.8	0.5	2.7	2.4
Electricity	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	19.65	23.92	29.62	35.08	37.82	45.18	54.20	63.83	100	100	100	100	100	100	100	100	1.7	3.4	2.6	3.5	3.1
Industry	4.66	5.35	7.43	9.34	11.04	14.05	17.71	22.05	23.7	22.4	25.1	26.6	29.2	31.1	32.7	34.5	1.9	4.7	4.2	4.6	4.4
Transportation	4.52	8.10	10.61	11.50	10.85	12.92	15.61	18.48	23.0	33.9	35.8	32.8	28.7	28.6	28.8	29.0	3.5	1.6	1.2	3.6	2.2
Others	10.25	10.19	10.53	13.05	14.58	16.66	19.14	21.31	52.1	42.6	35.6	37.2	38.6	36.9	35.3	33.4	0.1	4.4	2.5	2.5	2.9
Non-energy	0.23	0.27	1.05	1.19	1.35	1.54	1.75	1.99	1.2	1.1	3.5	3.4	3.6	3.4	3.2	3.1	6.3	2.6	2.6	2.6	2.6
Total	19.65	23.92	29.62	35.08	37.82	45.18	54.20	63.83	100	100	100	100	100	100	100	100	1.7	3.4	2.6	3.5	3.1
Coal	0.61	0.77	2.29	3.20	4.44	5.95	7.71	9.9	3.1	3.2	7.7	9.1	11.7	13.2	14.2	15.5	5.4	6.9	6.4	5.2	6.0
Oil	7.92	13.01	15.01	17.22	16.91	20.48	25.01	29.9	40.3	54.4	50.7	49.1	44.7	45.3	46.1	46.8	2.6	2.8	1.7	3.8	2.8
Natural gas	-	0.00	0.05	0.09	0.15	0.26	0.44	0.8	0.0	0.0	0.2	0.2	0.4	0.6	0.8	1.2	-	11.8	11.4	11.5	11.5
Electricity	1.82	3.14	5.83	6.94	7.90	9.79	11.74	13.5	9.3	13.1	19.7	19.8	20.9	21.7	21.7	21.1	4.8	3.5	3.5	3.2	3.4
Heat	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	9.30	7.00	6.44	7.65	8.42	8.70	9.30	9.8	47.3	29.3	21.7	21.8	22.3	19.3	17.2	15.4	-1.5	3.5	1.3	1.2	1.7

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	25.84	45.25	82.41	88.65	100.98	125.14	150.05	172.26	100	100	100	100	100	100	100	100	4.7	1.5	3.5	3.2	3.0
Coal	1.93	16.66	36.69	35.75	32.51	45.90	60.71	62.2	7.5	36.8	44.5	40.3	32.2	36.7	40.5	36.1	12.5	-0.5	2.5	3.1	2.1
Oil	12.38	9.14	5.86	4.64	3.47	4.63	6.13	6.6	47.9	20.2	7.1	5.2	3.4	3.7	4.1	3.8	-2.9	-4.6	0.0	3.6	0.5
Natural gas	-	0.02	18.88	13.64	13.93	19.29	26.46	29.3	0.0	0.0	22.9	15.4	13.8	15.4	17.6	17.0	-	-6.3	3.5	4.3	1.8
Nuclear	-	-	-	-	1.61	4.31	5.70	14.4	0.0	0.0	0.0	0.0	1.6	3.4	3.8	8.4	-	-	-	12.8	-
Hydro	6.06	7.80	8.67	11.22	15.45	15.45	15.45	24.2	23.5	17.2	10.5	12.7	15.3	12.3	10.3	14.0	1.4	5.3	3.3	4.6	4.2
Geothermal	5.47	11.63	11.04	14.24	19.04	19.90	19.93	19.9	21.2	25.7	13.4	16.1	18.9	15.9	13.3	11.6	2.9	5.2	3.4	0.0	2.4
Others	0.00	0.00	1.28	9.15	14.97	15.65	15.67	15.7	0.0	0.0	1.6	10.3	14.8	12.5	10.4	9.1	-	48.2	5.5	0.0	10.5

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	3.10	5.89	13.62	11.63	10.42	14.51	19.33	20.02	100	100	100	100	100	100	100	100	6.1	-3.1	2.2	3.3	1.6
Coal	0.56	3.78	9.26	8.54	7.59	10.63	14.07	14.3	18.0	64.3	68.0	73.4	72.8	73.3	72.8	71.2	11.9	-1.6	2.2	3.0	1.7
Oil	2.54	2.10	1.41	1.14	0.85	1.14	1.51	1.6	82.0	35.6	10.3	9.8	8.2	7.8	7.8	8.1	-2.3	-4.1	0.0	3.6	0.6
Natural gas	-	0.01	2.95	1.96	1.98	2.74	3.75	4.1	0.0	0.1	21.7	16.8	19.0	18.9	19.4	20.7	-	-7.9	3.4	4.2	1.4

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	39.7	37.7	38.8	39.9	41.2	41.4	41.5	42.1									-0.1	0.6	0.4	0.2	0.3
Coal	29.8	37.9	34.1	36.0	36.8	37.1	37.1	37.5									0.5	1.1	0.3	0.1	0.4
Oil	41.9	37.5	35.8	35.0	35.0	35.0	35.0	35.0									-0.6	-0.5	0.0	0.0	-0.1
Natural gas	-	16.6	55.0	60.0	60.5	60.6	60.6	60.8									-	1.8	0.1	0.0	0.4

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	28.7	57.0	95.1	99.6	99.6	130.0	166.4	191.3	100	100	100	100	100	100	100	100	4.9	0.9	2.7	3.9	2.8
Coal	4.4	18.0	45.9	46.5	47.8	65.9	86.6	96.0	15.3	31.5	48.3	46.7	47.9	50.7	52.0	50.2	9.8	0.3	3.5	3.8	3.0
Oil	24.3	39.0	42.2	48.3	46.9	57.0	70.0	83.8	84.7	68.4	44.3	48.5	47.1	43.9	42.1	43.8	2.2	2.7	1.7	3.9	2.8
Natural gas	-	0.0	7.0	4.8	5.0	7.0	9.9	11.5	0.0	0.0	7.4	4.8	5.0	5.4	5.9	6.0	-	-7.4	3.9	5.0	2.0

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	94.5	125.3	266.1	368.0	504.1	674.6	881.7	1,146.9	4.2	6.7	6.2	5.4	6.0
Population (millions of people)	61.9	78.0	101.7	109.6	118.0	127.2	137.0	147.6	2.0	1.5	1.5	1.5	1.5
GDP per capita (thousands of 2010 US\$/person)	1.5	1.6	2.6	3.36	4.3	5.3	6.4	7.8	2.2	5.1	4.7	3.9	4.5
Primary energy consumption per capita (toe/person)	0.4	0.5	0.5	0.49	0.51	0.56	0.61	0.64	0.4	1.1	1.3	1.4	1.3
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	275	299	178	147	119	105	95	83	-1.7	-3.8	-3.3	-2.4	-3.0
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	208	191	111	95	75	67	61	56	-2.5	-3.0	-3.5	-1.8	-2.7
CO ₂ emissions per unit of GDP (t-C/million 2010 US dollars)	304	455	358	271	198	193	189	167	0.7	-5.4	-3.3	-1.4	-3.0
CO ₂ emissions per unit of primary energy consumption (t-C/toe)	1.1	1.5	2.0	1.84	1.66	1.83	1.99	2.01	2.4	-1.7	-0.1	1.0	0.0
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

Singapore (BAU)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	11.53	18.67	34.31	47.76	50.60	53.11	55.55	56.61	100	100	100	100	100	100	100	100	4.5	6.8	1.1	0.6	2.0
Coal	0.02	0.00	0.27	0.29	0.31	0.33	0.35	0.36	0.2	0.0	0.8	0.6	0.6	0.6	0.6	0.6	10.6	1.5	1.3	0.8	1.1
Oil	11.44	17.35	23.81	35.33	36.41	37.42	38.57	39.18	99.2	92.9	69.4	74.0	72.0	70.5	69.4	69.2	3.0	8.2	0.6	0.5	2.0
Natural gas	0.00	1.12	9.84	11.65	13.26	14.63	15.78	16.12	0.0	6.0	28.7	24.4	26.2	27.5	28.4	28.5	-	3.4	2.3	1.0	2.0
Nuclear	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Geothermal	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.07	0.20	0.39	0.49	0.61	0.73	0.85	0.95	0.6	1.1	1.1	1.0	1.2	1.4	1.5	1.7	7.1	4.9	4.0	2.7	3.7
Biomass	0.07	0.20	0.37	0.43	0.48	0.53	0.57	0.60	0.6	1.1	1.1	0.9	1.0	1.0	1.0	1.1	6.9	2.9	2.2	1.2	2.0
Solar, Wind, Ocean	0.00	0.00	0.02	0.07	0.13	0.20	0.28	0.35	0.0	0.0	0.1	0.1	0.3	0.4	0.5	0.6	-	30.6	11.5	6.0	12.8
Biofuels	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	5.01	8.31	25.66	38.54	40.83	42.93	45.06	45.88	100	100	100	100	100	100	100	100	6.8	8.5	1.1	0.7	2.4
Industry	0.61	2.18	7.11	9.48	11.33	13.03	14.81	15.29	12.1	26.3	27.7	24.6	27.7	30.4	32.9	33.3	10.4	5.9	3.2	1.6	3.1
Transportation	1.36	1.75	2.99	3.09	3.25	3.44	3.66	3.89	27.1	21.1	11.6	8.0	8.0	8.0	8.1	8.5	3.2	0.7	1.1	1.2	1.1
Others	1.13	1.65	2.47	2.79	3.06	3.24	3.36	3.46	22.6	19.9	9.6	7.2	7.5	7.6	7.5	7.5	3.2	2.5	1.5	0.6	1.4
Non-energy	1.91	2.72	13.10	23.28	23.20	23.22	23.23	23.24	38.2	32.8	51.0	60.1	56.8	54.1	51.6	50.7	8.0	12.1	0.0	0.0	2.3
Total	5.01	8.31	25.66	38.54	40.83	42.93	45.06	45.88	100	100	100	100	100	100	100	100	6.8	8.5	1.1	0.7	2.4
Coal	0.02	0.00	0.13	0.13	0.13	0.13	0.13	0.13	0.4	0.0	0.5	0.3	0.3	0.3	0.3	0.3	7.5	0.0	0.0	0.0	0.0
Oil	3.81	5.86	19.84	31.37	32.45	33.48	34.64	35.27	76.1	70.5	77.3	81.4	79.5	78.0	76.9	76.9	6.8	9.6	0.7	0.5	2.3
Natural gas	0.06	0.11	1.51	2.23	2.80	3.32	3.80	3.71	1.2	1.3	5.9	5.8	6.8	7.7	8.4	8.1	13.6	8.1	4.1	1.1	3.7
Electricity	1.12	2.35	4.18	4.82	5.45	6.01	6.49	6.77	22.3	28.3	16.3	12.5	13.4	14.0	14.4	14.8	5.4	2.9	2.2	1.2	1.9
Heat									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	15.71	31.67	50.91	58.66	66.41	73.12	79.06	82.48	100	100	100	100	100	100	100	100	4.8	2.9	2.2	1.2	1.9
Coal	0.00	0.00	0.42	0.48	0.54	0.60	0.64	0.67	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	-	2.9	2.2	1.2	1.9
Oil	15.54	25.32	0.56	0.56	0.53	0.48	0.40	0.29	98.9	80.0	1.1	1.0	0.8	0.7	0.5	0.4	-12.4	-0.1	-1.6	-4.9	-2.6
Natural gas	0.00	0.00	48.29	55.19	61.97	67.66	72.46	75.06	0.0	18.5	94.8	94.1	93.3	92.5	91.7	91.0	-	2.7	2.1	1.0	1.8
Nuclear	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Geothermal	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.17	0.49	1.64	2.44	3.37	4.38	5.56	6.46	1.1	1.5	3.2	4.2	5.1	6.0	7.0	7.8	9.5	8.2	6.0	4.0	5.6

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	4.42	7.72	8.60	9.70	10.76	11.61	12.28	12.70	100	100	100	100	100	100	100	100	2.7	2.5	1.8	0.9	1.6
Coal	0.00	0.00	0.14	0.16	0.19	0.20	0.22	0.23	0.0	0.0	1.7	1.7	1.7	1.8	1.8	1.8	-	2.9	2.2	1.2	1.9
Oil	4.42	6.60	0.12	0.12	0.11	0.10	0.08	0.06	100.0	85.5	1.4	1.2	1.0	0.9	0.7	0.5	-13.4	-0.3	-1.7	-4.9	-2.7
Natural gas	0.00	1.12	8.33	9.42	10.47	11.31	11.98	12.41	0.0	14.5	97.0	97.1	97.2	97.4	97.5	97.7	-	2.5	1.8	0.9	1.6

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	30.3	34.8	49.3	49.8	50.4	50.9	51.5	51.5									2.0	0.2	0.2	0.1	0.2
Coal			25.1	25.1	25.0	25.1	25.1	25.1									-	-0.1	0.0	0.0	0.0
Oil	30.3	33.0	40.4	40.9	41.1	41.5	42.1	41.5									1.2	0.2	0.2	0.0	0.1
Natural gas	-	45.0	49.8	50.4	50.9	51.5	52.0	52.0									-	0.2	0.2	0.1	0.2

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	5.7	8.8	15.5	19.4	21.1	22.5	23.8	24.1	100	100	100	100	100	100	100	100	4.1	4.6	1.5	0.7	1.8
Coal	0.1	0.0							1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-100.0	-	-	-	-
Oil	5.6	8.0	9.2	12.0	12.6	13.1	13.7	13.7	98.8	90.4	59.4	61.6	59.7	58.3	57.4	57.1	2.0	5.3	0.9	0.5	1.6
Natural gas	0.0	0.9	6.3	7.5	8.5	9.4	10.1	10.3	0.0	9.6	40.6	38.4	40.3	41.7	42.6	42.9	-	3.4	2.3	1.0	2.0

Energy and economic indicators

										AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
GDP (billions of 2010 US dollars)	50.4	100.4	212.9	248.7	288.7	326.7	364.6	402.5	5.9	3.2	2.8	2.1	2.6	
Population (millions of people)	3.0	4.0	5.5	5.8	6.1	6.3	6.4	6.6	2.4	1.0	0.8	0.5	0.7	
GDP per capita (thousands of 2010 US\$/person)	16.55	24.92	38.58	42.8	47.6	52.1	56.6	60.9	3.4	2.1	2.0	1.6	1.8	
Primary energy consumption per capita (toe/person)	3.78	4.63	6.22	8.23	8.35	8.47	8.62	8.56	2.0	5.8	0.3	0.1	1.3	
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	229	186	161	192	175	163	152	141	-1.4	3.6	-1.7	-1.4	-0.5	
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	99	83	121	155	141	131	124	114	0.8	5.2	-1.6	-1.4	-0.2	
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	112	88	73	78	73	69	65	60	-1.7	1.4	-1.2	-1.4	-0.8	
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.49	0.47	0.45	0.41	0.42	0.42	0.43	0.43	-0.3	-2.1	0.4	0.0	-0.2	
Automobile ownership volume (millions of vehicles)			0.84	0.85	0.86	0.87	0.88	0.89	-	-	0.25	0.25	-	
Automobile ownership volume per capita (vehicles per person)	-	-	0.151	0.146	0.141	0.138	0.136	0.134	-	-	-0.52	-0.28	-	

Singapore (APS)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	11.53	18.67	34.12	47.03	49.21	51.03	52.73	53.68	100	100	100	100	100	100	100	100	4.4	6.6	0.8	0.5	1.8
Coal	0.02	0.00	0.27	0.29	0.31	0.33	0.34	0.35	0.2	0.0	0.8	0.6	0.6	0.6	0.6	0.7	10.6	1.4	1.2	0.7	1.0
Oil	11.44	17.35	23.78	35.23	36.22	37.13	38.16	38.76	99.2	92.9	69.7	74.9	73.6	72.8	72.4	72.2	3.0	8.2	0.5	0.4	2.0
Natural gas	0.00	1.12	9.68	10.98	12.01	12.76	13.28	13.48	0.0	6.0	28.4	23.3	24.4	25.0	25.2	25.1	-	2.6	1.5	0.5	1.3
Nuclear	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Geothermal	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.07	0.20	0.40	0.52	0.67	0.81	0.95	1.09	0.6	1.1	1.2	1.1	1.4	1.6	1.8	2.0	7.2	5.8	4.5	3.0	4.1
Biomass	0.07	0.20	0.37	0.42	0.47	0.50	0.53	0.55	0.6	1.1	1.1	0.9	0.9	1.0	1.0	1.0	6.9	2.6	1.8	0.9	1.6
Solar, Wind, Ocean	0.00	0.00	0.03	0.10	0.20	0.31	0.42	0.54	0.0	0.0	0.1	0.2	0.4	0.6	0.8	1.0	-	30.9	11.4	5.9	12.7
Biofuels	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Electricity	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	5.01	8.31	25.62	38.36	40.46	42.33	44.18	45.00	100	100	100	100	100	100	100	100	6.7	8.4	1.0	0.6	2.3
Industry	0.61	2.18	7.08	9.33	11.02	12.54	14.09	14.57	12.1	26.3	27.6	24.3	27.2	29.6	31.9	32.4	10.3	5.7	3.0	1.5	2.9
Transportation	1.36	1.75	2.99	3.09	3.24	3.42	3.63	3.86	27.1	21.1	11.7	8.0	8.0	8.1	8.2	8.6	3.2	0.7	1.0	1.2	1.0
Others	1.13	1.65	2.46	2.76	3.00	3.15	3.23	3.33	22.6	19.9	9.6	7.2	7.4	7.5	7.3	7.4	3.2	2.3	1.4	0.5	1.2
Non-energy	1.91	2.72	13.09	23.18	23.20	23.22	23.23	23.24	38.2	32.8	51.1	60.4	57.3	54.8	52.6	51.7	8.0	12.1	0.0	0.0	2.3
Total	5.01	8.31	25.62	38.36	40.46	42.33	44.18	45.00	100	100	100	100	100	100	100	100	6.7	8.4	1.0	0.6	2.3
Coal	0.02	0.00	0.13	0.13	0.13	0.13	0.13	0.13	0.4	0.0	0.5	0.3	0.3	0.3	0.3	0.3	7.5	0.0	0.0	0.0	0.0
Oil	3.81	5.86	19.82	31.28	32.28	33.20	34.24	34.86	76.1	70.5	77.4	81.6	79.8	78.4	77.5	77.5	6.8	9.6	0.6	0.5	2.3
Natural gas	0.06	0.11	1.50	2.19	2.72	3.19	3.61	3.52	1.2	1.3	5.9	5.7	6.7	7.5	8.2	7.8	13.6	7.8	3.8	1.0	3.5
Electricity	1.12	2.35	4.17	4.75	5.33	5.81	6.20	6.48	22.3	28.3	16.3	12.4	13.2	13.7	14.0	14.4	5.4	2.7	2.0	1.1	1.8
Heat									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	15.71	31.67	50.73	57.90	64.89	70.70	75.54	78.95	100	100	100	100	100	100	100	100	4.8	2.7	2.0	1.1	1.8
Coal	0.00	0.00	0.41	0.47	0.53	0.58	0.62	0.64	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	-	2.7	2.0	1.1	1.8
Oil	15.54	25.32	0.51	0.50	0.48	0.43	0.36	0.28	98.9	80.0	1.0	0.9	0.7	0.6	0.5	0.4	-12.8	-0.1	-1.5	-4.3	-2.4
Natural gas	0.00	5.86	48.06	54.07	59.73	64.13	67.49	69.47	0.0	18.5	94.7	93.4	92.0	90.7	89.3	88.0	-	2.4	1.7	0.8	1.5
Nuclear	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Geothermal	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.17	0.49	1.75	2.86	4.16	5.56	7.07	8.55	1.1	1.5	3.5	4.9	6.4	7.9	9.4	10.8	9.8	10.2	6.9	4.4	6.5

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	4.42	7.72	8.42	9.05	9.57	9.85	9.95	10.23	100	100	100	100	100	100	100	100	2.6	1.4	0.8	0.4	0.8
Coal	0.00	0.00	0.14	0.16	0.18	0.20	0.21	0.22	0.0	0.0	1.7	1.8	1.9	2.0	2.1	2.2	-	2.7	2.0	1.1	1.8
Oil	4.42	6.60	0.11	0.10	0.10	0.08	0.07	0.05	100.0	85.5	1.3	1.1	1.0	0.9	0.7	0.5	-13.8	-0.7	-2.0	-4.6	-2.8
Natural gas	0.00	1.12	8.17	8.79	9.29	9.57	9.67	9.96	0.0	14.5	97.0	97.1	97.1	97.1	97.2	97.3	-	1.5	0.9	0.4	0.8

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	30.3	34.8	50.0	52.3	54.6	56.9	59.2	59.2									2.0	0.9	0.8	0.4	0.7
Coal	-	-	25.1	25.1	25.1	25.1	25.1	25.1									-	0.0	0.0	0.0	0.0
Oil	30.3	33.0	40.6	41.7	42.8	43.9	45.0	45.0									1.2	0.5	0.5	0.2	0.4
Natural gas	-	45.0	50.6	52.9	55.3	57.6	60.0	60.0									-	0.9	0.9	0.4	0.7

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	5.7	8.8	15.4	18.9	20.2	21.1	21.9	22.1	100	100	100	100	100	100	100	100	4.1	4.2	1.1	0.5	1.5
Coal	0.1	0.0							1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-100.0	-	-	-	-
Oil	5.6	8.0	9.2	11.9	12.5	12.9	13.4	13.5	98.8	90.4	59.7	62.8	61.8	61.2	61.1	60.9	2.0	5.2	0.8	0.4	1.5
Natural gas	0.0	0.9	6.2	7.0	7.7	8.2	8.5	8.6	0.0	9.6	40.3	37.2	38.2	38.8	38.9	39.1	-	2.6	1.5	0.5	1.3

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	50.4	100.4	212.9	248.7	288.7	326.7	364.6	402.5	5.9	3.2	2.8	2.1	2.6
Population (millions of people)	3.0	4.0	5.5	5.8	6.1	6.3	6.4	6.6	2.4	1.0	0.8	0.5	0.7
GDP per capita (thousands of 2010 US\$/person)	16.55	24.92	38.58	42.8	47.6	52.1	56.6	60.9	3.4	2.1	2.0	1.6	1.8
Primary energy consumption per capita (toe/person)	3.78	4.63	6.18	8.10	8.12	8.13	8.19	8.12	2.0	5.5	0.0	0.0	1.1
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	229	186	160	189	170	156	145	133	-1.4	3.4	-1.9	-1.6	-0.7
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	99	83	120	154	140	130	121	112	0.8	5.1	-1.7	-1.5	-0.3
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	112	88	72	76	70	65	60	55	-1.7	1.0	-1.6	-1.6	-1.1
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.49	0.47	0.45	0.40	0.41	0.41	0.41	0.41	-0.3	-2.3	0.3	0.0	-0.4
Automobile ownership volume (millions of vehicles)									-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

Thailand (BAU)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	42.63	72.27	134.97	151.42	171.76	191.92	217.11	250.81	100	100	100	100	100	100	100	100	4.7	2.3	2.4	2.7	2.5
Coal	3.82	7.67	16.82	17.81	20.36	22.53	26.65	33.40	9.0	10.6	12.5	11.8	11.9	11.7	12.3	13.3	6.1	1.2	2.4	4.0	2.8
Oil	17.96	31.88	52.27	60.46	71.06	82.42	95.05	109.13	42.1	44.1	38.7	39.9	41.4	42.9	43.8	43.5	4.4	3.0	3.1	2.8	3.0
Natural gas	4.99	17.36	37.92	41.18	42.60	43.27	45.08	53.43	11.7	24.0	28.1	27.2	24.8	22.5	20.8	21.3	8.4	1.7	0.5	2.1	1.4
Nuclear									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.43	0.52	0.49	0.89	1.04	1.14	1.23	1.26	1.0	0.7	0.4	0.6	0.6	0.6	0.6	0.5	0.6	12.4	2.5	1.0	3.8
Geothermal									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	15.43	14.83	27.47	31.08	36.70	42.55	49.10	53.59	36.2	20.5	20.4	20.5	21.4	22.2	22.6	21.4	2.3	2.5	3.2	2.3	2.7
Biomass	14.69	14.59	23.27	25.79	29.70	32.97	36.60	40.39	34.4	20.2	17.2	17.0	17.3	17.2	16.9	16.1	1.9	2.1	2.5	2.0	2.2
Solar, Wind, Ocean			0.31	1.05	1.90	2.31	2.66	2.80	0.0	0.0	0.2	0.7	1.1	1.2	1.2	1.1	-	27.3	8.2	1.9	9.1
Biofuels			1.53	1.59	1.74	1.94	2.18	2.50	0.0	0.0	1.1	1.1	1.0	1.0	1.0	1.0	-	0.8	2.0	2.6	2.0
Electricity	0.05	0.24	2.35	2.65	3.35	5.32	7.65	7.90	0.1	0.3	1.7	1.7	2.0	2.8	3.5	3.1	16.4	2.4	7.2	4.0	5.0

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	28.87	50.57	98.04	113.33	132.00	152.16	174.02	198.30	100	100	100	100	100	100	100	100	5.0	2.9	3.0	2.7	2.9
Industry	8.65	16.72	30.61	35.79	42.45	49.90	58.17	67.56	30.0	33.1	31.2	31.6	32.2	32.8	33.4	34.1	5.2	3.2	3.4	3.1	3.2
Transportation	9.01	14.61	23.72	25.88	29.42	33.71	38.78	44.92	31.2	28.9	24.2	22.8	22.3	22.2	22.3	22.7	3.9	1.8	2.7	2.9	2.6
Others	10.78	13.62	21.10	23.42	25.96	28.55	31.25	34.20	37.3	26.9	21.5	20.7	19.7	18.8	18.0	17.2	2.7	2.1	2.0	1.8	2.0
Non-energy	0.43	5.63	22.62	28.25	34.17	40.01	45.82	51.63	1.5	11.1	23.1	24.9	25.9	26.3	26.3	26.0	17.2	4.5	3.5	2.6	3.4
Total	28.87	50.57	98.04	113.33	132.00	152.16	174.02	198.30	100	100	100	100	100	100	100	100	5.0	2.9	3.0	2.7	2.9
Coal	1.31	3.54	8.16	9.84	11.60	13.35	15.09	16.85	4.5	7.0	8.3	8.7	8.8	8.8	8.7	8.5	7.6	3.8	3.1	2.4	2.9
Oil	14.93	28.77	49.25	57.26	67.25	78.09	89.93	103.21	51.7	56.9	50.2	50.5	50.9	51.3	51.7	52.0	4.9	3.1	3.1	2.8	3.0
Natural gas	0.14	1.11	9.63	11.02	13.14	15.53	18.16	21.16	0.5	2.2	9.8	9.7	10.0	10.2	10.4	10.7	10.5	2.7	3.5	3.1	3.2
Electricity	3.30	7.56	15.04	17.62	20.50	23.55	26.84	30.44	11.4	15.0	15.3	15.5	15.5	15.4	15.3	15.3	6.3	3.2	2.9	2.6	2.9
Heat									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	9.20	9.59	15.96	17.59	19.52	21.64	23.99	26.65	31.9	19.0	16.3	15.5	14.8	14.2	13.8	13.4	2.2	2.0	2.1	2.1	2.1

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	44.18	95.98	165.71	193.52	222.41	237.18	251.27	294.57	100	100	100	100	100	100	100	100	5.4	3.2	2.1	2.2	2.3
Coal	11.05	17.77	32.92	31.89	35.66	38.11	49.01	71.82	25.0	18.5	19.9	16.5	16.0	16.1	19.5	24.4	4.5	-0.6	1.8	6.5	3.2
Oil	10.38	10.03	1.68	0.21	0.62	0.62	1.80	3.04	23.5	10.4	1.0	0.1	0.3	0.3	0.7	1.0	-7.0	-34.3	11.6	17.3	2.4
Natural gas	17.77	61.64	117.01	134.33	145.38	150.58	145.81	160.96	40.2	64.2	70.6	69.4	65.4	63.5	58.0	54.6	7.8	2.8	1.1	0.7	1.3
Nuclear			0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	4.98	6.03	5.75	10.30	12.05	13.24	14.29	14.61	11.3	6.3	3.5	5.3	5.4	5.6	5.7	5.0	0.6	12.4	2.5	1.0	3.8
Geothermal									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others		0.51	8.36	16.80	28.71	34.63	40.35	44.13	0.0	0.5	5.0	8.7	12.9	14.6	16.1	15.0	-	15.0	7.5	2.5	6.9

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	8.92	19.24	29.71	32.12	34.98	36.33	38.11	46.10	100	100	100	100	100	100	100	100	4.9	1.6	1.2	2.4	1.8
Coal	2.55	4.16	8.35	7.98	8.76	9.18	11.55	16.56	28.6	21.6	28.1	24.8	25.1	25.3	30.3	35.9	4.9	-0.9	1.4	6.1	2.8
Oil	2.55	2.34	0.37	0.05	0.14	0.14	0.40	0.67	28.6	12.2	1.2	0.1	0.4	0.4	1.0	1.5	-7.4	-34.3	11.6	17.3	2.4
Natural gas	3.82	12.73	20.99	24.10	26.08	27.01	26.16	28.87	42.9	66.2	70.6	75.0	74.6	74.3	68.6	62.6	7.0	2.8	1.1	0.7	1.3

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	37.8	40.0	43.9	44.6	44.7	44.8	44.4	44.0									0.6	0.3	0.1	-0.2	0.0
Coal	37.3	36.7	33.0	34.4	35.0	35.7	36.5	37.3									-0.4	0.3	0.4	0.4	0.4
Oil	35.0	36.8	38.8	38.8	38.8	38.8	38.8	38.8									0.4	0.0	0.0	0.0	0.0
Natural gas	40.0	41.6	47.9	47.9	47.9	47.9	47.9	47.9									0.7	0.0	0.0	0.0	0.0

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	131.5	169.2	220.6	242.7	275.2	307.0	346.6	410.1	100	100	100	100	100	100	100	100	2.1	1.9	2.4	2.9	2.5
Coal	37.5	46.1	64.4	69.5	79.5	87.9	104.0	130.3	28.5	27.3	29.2	28.6	28.9	28.6	30.0	31.8	2.2	1.5	2.4	4.0	2.9
Oil	44.6	71.5	94.1	101.8	116.0	132.7	153.3	178.3	34.0	42.2	42.7	41.9	42.1	43.2	44.2	43.5	3.0	1.6	2.7	3.0	2.6
Natural gas	49.3	51.6	62.0	71.4	79.8	86.3	89.3	101.5	37.5	30.5	28.1	29.4	29.0	28.1	25.8	24.7	0.9	2.8	1.9	1.6	2.0

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	141.6	217.7	393.7	471.6	570.2	687.8	828.8	998.7	4.2	3.7	3.8	3.8	3.8
Population (millions of people)	56.6	61.9	65.7	65.8	65.9	66.0	66.1	66.2	0.6	0.0	0.0	0.0	0.0
GDP per capita (thousands of 2010 US\$/person)	2.5	3.5	6.0	7.16	8.6	10.4	12.5	15.1	3.6	3.6	3.8	3.8	3.8
Primary energy consumption per capita (toe/person)	0.8	1.2	2.1	2.30	2.60	2.91	3.28	3.79	4.1	2.3	2.4	2.7	2.5
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	301	332	343	321	301	279	262	251	0.5	-1.3	-1.4	-1.0	-1.2
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	204	232	249	240	231	221	210	199	0.8	-0.7	-0.8	-1.1	-0.9
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	928	777	560	515	483	446	418	411	-2.0	-1.7	-1.4	-0.8	-1.2
CO2 emissions per unit of primary energy consumption (t-C/toe)	3.1	2.3	1.6	1.60	1.60	1.60	1.60	1.64	-2.5	-0.4	0.0	0.2	0.0

Thailand (APS)

Primary energy supply

	Mtoe									Share, %									AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040		
Total	42.63	72.27	134.97	139.08	145.12	153.72	165.00	183.98	100	100	100	100	100	100	100	100	4.7	0.6	1.0	1.8	1.2		
Coal	3.82	7.67	16.82	16.31	17.45	18.65	21.10	23.25	9.0	10.6	12.5	11.7	12.0	12.1	12.8	12.6	6.1	-0.6	1.3	2.2	1.3		
Oil	17.96	31.88	52.27	56.05	61.04	66.98	72.37	79.67	42.1	44.1	38.7	40.3	42.1	43.6	43.9	43.3	4.4	1.4	1.8	1.7	1.7		
Natural gas	4.99	17.36	37.92	37.05	34.53	31.73	29.94	34.17	11.7	24.0	28.1	26.6	23.8	20.6	18.1	18.6	8.4	-0.5	-1.5	0.7	-0.4		
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	1.18	2.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	-	-	-	-		
Hydro	0.43	0.52	0.49	0.91	1.02	1.14	1.25	1.36	1.0	0.7	0.4	0.7	0.7	0.7	0.8	0.7	0.6	13.0	2.3	1.8	4.1		
Geothermal	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-		
Others	15.43	14.83	27.47	28.76	31.07	35.23	39.16	42.96	36.2	20.5	20.4	20.7	21.4	22.9	23.7	23.4	2.3	0.9	2.0	2.0	1.8		
Biomass	14.69	14.59	23.27	24.12	25.99	28.41	30.94	34.02	34.4	20.2	17.2	17.3	17.9	18.5	18.7	18.5	1.9	0.7	1.7	1.8	1.5		
Solar, Wind, Ocean	0.00	0.00	0.31	0.77	1.27	1.76	2.25	2.74	0.0	0.0	0.2	0.6	0.9	1.1	1.4	1.5	-	19.6	8.6	4.6	9.1		
Biofuels	0.00	0.00	1.53	1.32	1.13	1.00	0.83	0.76	0.0	0.0	1.1	0.9	0.8	0.6	0.5	0.4	-	-3.0	-2.7	-2.7	-2.8		
Electricity	0.05	0.24	2.35	2.56	2.67	4.06	5.15	5.44	0.1	0.3	1.7	1.8	1.8	2.6	3.1	3.0	16.4	1.7	4.7	3.0	3.4		

Final energy consumption

	Mtoe								Share, %								AAGR (%)					
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
Total	28.87	50.57	98.04	104.66	112.65	123.63	133.52	147.17	100	100	100	100	100	100	100	100	5.0	1.3	1.7	1.8	1.6	
Industry	8.65	16.72	30.61	32.63	36.08	41.35	46.47	53.51	30.0	33.1	31.2	31.2	32.0	33.4	34.8	36.4	5.2	1.3	2.4	2.6	2.3	
Transportation	9.01	14.61	23.72	21.35	19.08	17.31	14.65	13.63	31.2	28.9	24.2	20.4	16.9	14.0	11.0	9.3	3.9	-2.1	-2.1	-2.4	-2.2	
Others	10.78	13.62	21.10	22.43	23.33	24.96	26.58	28.40	37.3	26.9	21.5	21.4	20.7	20.2	19.9	19.3	2.7	1.2	1.1	1.3	1.2	
Non-energy	0.43	5.63	22.62	28.25	34.17	40.01	45.82	51.63	1.5	11.1	23.1	27.0	30.3	32.4	34.3	35.1	17.2	4.5	3.5	2.6	3.4	
Total	28.87	50.57	98.04	104.66	112.65	123.63	133.52	147.17	100	100	100	100	100	100	100	100	5.0	1.3	1.7	1.8	1.6	
Coal	1.31	3.54	8.16	8.97	9.86	11.07	12.06	13.35	4.5	7.0	8.3	8.6	8.8	9.0	9.0	9.1	7.6	1.9	2.1	1.9	2.0	
Oil	14.93	28.77	49.25	52.90	57.36	62.73	67.49	74.16	51.7	56.9	50.2	50.5	50.9	50.7	50.5	50.4	4.9	1.4	1.7	1.7	1.7	
Natural gas	0.14	1.11	9.63	10.24	11.32	12.67	13.91	15.66	0.5	2.2	9.8	9.8	10.0	10.2	10.4	10.6	18.5	1.2	2.1	2.1	2.0	
Electricity	3.30	7.56	15.04	16.26	17.37	19.30	21.15	23.48	11.4	15.0	15.3	15.5	15.4	15.6	15.8	16.0	6.3	1.6	1.7	2.0	1.8	
Heat	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		-	-	-	-	
Others	9.20	9.59	15.96	16.29	16.74	17.87	18.91	20.52	31.9	19.0	16.3	15.6	14.9	14.5	14.2	13.9	2.2	0.4	0.9	1.4	1.0	

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	44.18	95.98	165.71	177.00	189.94	196.96	206.74	233.22	100	100	100	100	100	100	100	100	5.4	1.3	1.1	1.7	1.4
Coal	11.05	17.77	32.92	29.33	30.90	31.46	38.34	42.96	25.0	18.5	19.9	16.6	16.3	16.0	18.5	18.4	4.5	-2.3	0.7	3.2	1.1
Oil	10.38	10.03	1.68	0.00	0.00	0.00	0.00	0.91	23.5	10.4	1.0	0.0	0.0	0.0	0.0	0.0	0.4	-7.0	-100.0	-	-2.4
Natural gas	17.77	61.64	117.01	123.55	125.99	124.28	114.04	121.09	40.2	64.2	70.6	69.8	66.3	63.1	55.2	51.9	7.8	1.1	0.1	-0.3	0.1
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00	4.53	9.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.2	-	-	-	-
Hydro	4.98	6.03	5.75	10.59	11.91	13.24	14.56	15.84	11.3	6.3	3.5	6.0	6.3	6.7	7.0	6.8	0.6	13.0	2.3	1.8	4.1
Geothermal	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	0.00	0.51	8.36	13.53	21.13	27.97	35.27	42.59	0.0	0.5	5.0	7.6	11.1	14.2	17.1	18.3	-	10.1	7.5	4.3	6.7

Power generation input

	Mtoe									Share, %									AAGR (%)					
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040			
Total	8.92	19.24	29.71	29.50	30.20	29.88	29.49	31.83	100	100	100	100	100	100	100	100	4.9	-0.1	0.1	0.6	0.3			
Coal	2.55	4.16	8.35	7.34	7.60	7.58	9.04	9.90	28.6	21.6	28.1	24.9	25.2	25.4	30.6	31.1	4.9	-2.6	0.3	2.7	0.7			
Oil	2.55	2.34	0.37	0.00	0.00	0.00	0.00	0.20	28.6	12.2	1.2	0.0	0.0	0.0	0.0	0.0	0.6	-7.4	-100.0	-	-	-2.4		
Natural gas	3.82	12.73	20.99	22.16	22.60	22.29	20.46	21.72	42.9	66.2	70.6	75.1	74.8	74.6	69.4	68.3	7.0	1.1	0.1	-0.3	0.1			

Thermal efficiency

	%																AAGR (%)					
	1990	2000	2015	2020	2025	2030	2035	2040										1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	37.8	40.0	43.9	44.6	44.7	44.8	44.4	44.6										0.6	0.3	0.1	-0.1	0.1
Coal	37.3	36.7	33.9	34.4	35.0	35.7	36.5	37.3										-0.4	0.3	0.4	0.4	0.4
Oil	35.0	36.8	38.8	-	-	-	-	38.8										0.4	-	-	-	0.0
Natural gas	40.0	41.6	47.9	47.9	47.9	47.9	47.9	47.9										0.7	0.0	0.0	0.0	0.0

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	131.5	169.2	220.6	217.2	221.3	227.4	232.8	252.0	100	100	100	100	100	100	100	100	2.1	-0.3	0.5	1.0	0.5
Coal	37.5	46.1	64.4	63.6	68.1	72.8	82.3	90.7	28.5	27.3	29.2	29.3	30.8	32.0	35.4	36.0	2.2	-0.3	1.3	2.2	1.4
Oil	44.6	71.5	94.1	88.5	85.8	86.1	84.6	89.5	34.0	42.2	42.7	40.8	38.8	37.8	36.3	35.5	3.0	-1.2	-0.3	0.4	-0.2
Natural gas	49.3	51.6	62.0	65.0	67.3	68.5	65.9	71.8	37.5	30.5	28.1	29.9	30.4	30.1	28.3	28.5	0.9	0.9	0.5	0.5	0.6

Viet Nam (BAU)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	17.86	28.74	70.06	107.36	136.84	165.63	191.56	219.92	100	100	100	100	100	100	100	100	5.6	8.9	4.4	2.9	4.7
Coal	2.21	4.37	25.18	57.90	74.65	91.31	107.22	123.54	12.4	15.2	35.9	53.9	54.6	55.1	56.0	56.2	10.2	18.1	4.7	3.1	6.6
Oil	2.71	7.81	15.58	22.50	30.25	38.94	47.63	57.87	15.2	27.2	22.2	21.0	22.1	23.5	24.9	26.3	7.2	7.6	5.6	4.0	5.4
Natural gas	0.00	0.12	9.62	9.63	15.42	20.22	23.25	26.57	0.0	3.9	13.7	9.0	11.3	12.2	12.1	12.1	38.0	0.0	7.7	2.8	4.1
Nuclear	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.46	1.25	5.43	4.26	4.95	5.17	5.12	5.14	2.6	4.4	7.8	4.0	3.6	3.1	2.7	2.3	10.4	-4.7	1.9	0.0	-0.2
Geothermal	-	-							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	12.47	14.19	14.25	13.08	11.57	10.00	8.34	6.80	69.8	49.4	20.3	12.2	8.5	6.0	4.4	3.1	0.5	-1.7	-2.6	-3.8	-2.9
Biomass	12.47	14.19	14.78	12.59	11.07	9.45	7.78	6.22	69.8	49.4	21.1	11.7	8.1	5.7	4.1	2.8	0.7	-3.2	-2.8	-4.1	-3.4
Solar, Wind, Ocean			0.02	0.02	0.02	0.03	0.04	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.3	5.1	4.1	3.7
Biofuels			0.00	0.00	0.00	0.00	0.00	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-100.0	-	-	9.1
Electricity			-0.55	0.47	0.47	0.51	0.51	0.51	0.0	0.0	-0.8	0.4	0.3	0.3	0.3	0.2	-	-196.8	0.9	0.0	-199.7

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	16.06	25.09	56.31	76.63	96.43	115.35	132.39	150.97	100	100	100	100	100	100	100	100	5.1	6.4	4.2	2.7	4.0
Industry	4.54	7.86	23.68	37.01	49.13	59.19	68.17	77.97	28.3	31.3	42.0	48.3	50.9	51.3	51.5	51.6	6.8	9.3	4.8	2.8	4.9
Transportation	1.38	3.50	10.46	14.91	19.89	25.79	31.54	37.56	8.6	13.9	18.6	19.5	20.6	22.4	23.8	24.9	8.4	7.3	5.6	3.8	5.2
Others	10.11	13.60	20.95	23.03	25.18	27.57	29.22	31.24	63.0	54.2	37.2	30.1	26.1	23.9	22.1	20.7	3.0	1.9	1.8	1.3	1.6
Non-energy	0.03	0.13	1.23	1.68	2.23	2.81	3.46	4.20	0.2	0.5	2.2	2.2	2.3	2.4	2.6	2.8	16.3	6.5	5.3	4.1	5.1
Total	16.06	25.09	56.31	76.63	96.43	115.35	132.39	150.97	100	100	100	100	100	100	100	100	5.1	6.4	4.2	2.7	4.0
Coal	1.33	3.22	12.65	20.39	27.08	32.10	35.22	38.37	8.3	12.8	22.5	26.6	28.1	27.8	26.6	25.4	9.4	10.0	4.6	1.8	4.5
Oil	2.33	6.51	14.23	19.96	26.74	34.73	42.92	51.82	14.5	26.0	25.3	26.0	27.7	30.1	32.4	34.3	7.5	7.0	5.7	4.1	5.3
Natural gas	0.00	0.02	1.49	2.57	3.46	4.34	5.37	6.53	0.0	0.1	2.6	3.4	3.6	3.8	4.1	4.3	-	11.5	5.4	4.2	6.1
Electricity	0.53	1.93	12.14	19.69	26.13	32.25	37.97	44.15	3.3	7.7	21.6	25.7	27.1	28.0	28.7	29.2	13.3	10.2	5.1	3.2	5.3
Heat	-	-							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	11.87	13.41	15.81	14.02	13.02	11.94	10.91	10.10	73.9	53.4	28.1	18.3	13.5	10.3	8.2	6.7	1.2	-2.4	-1.6	-1.7	-1.8

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	8.68	26.57	159.81	242.79	323.27	398.90	469.84	546.15	100	100	100	100	100	100	100	100	12.4	8.7	5.1	3.2	5.0
Coal	2.00	3.14	51.00	155.30	200.30	253.42	313.14	376.39	23.1	11.8	31.9	64.0	62.0	63.5	66.6	68.9	13.8	24.9	5.0	4.0	8.3
Oil	1.31	4.52	0.30	0.00	0.00	0.00	0.00	0.00	15.0	17.0	0.2	0.0	0.0	0.0	0.0	0.0	-5.8	-100.0	-	-	-100.0
Natural gas	0.01	4.46	44.93	37.58	65.05	85.00	96.72	109.56	0.1	16.4	28.1	15.5	20.1	21.3	20.6	20.1	42.9	-3.5	8.5	2.6	3.6
Nuclear	0.00	0.00							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	5.37	14.55	63.19	49.56	57.57	60.11	59.60	59.82	61.8	54.8	39.5	20.4	17.8	15.1	12.7	11.0	10.4	-4.7	1.9	0.0	-0.2
Geothermal	-	-							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	-	-	0.39	0.35	0.36	0.38	0.37	0.37	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	-	-2.4	0.8	0.0	-0.2

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.27	3.56	20.35	43.92	58.59	73.49	88.11	103.29	100	100	100	100	100	100	100	100	11.7	16.6	5.3	3.5	6.7
Coal	0.89	1.15	12.53	37.51	47.58	59.21	71.99	85.17	69.8	32.3	61.6	85.4	81.2	80.6	81.7	82.5	11.2	24.5	4.7	3.7	8.0
Oil	0.38	1.31	0.08	0.00	0.00	0.00	0.00	0.00	30.0	36.8	0.4	0.0	0.0	0.0	0.0	0.0	-6.1	-100.0	-	-	-100.0
Natural gas	0.00	0.10	7.74	6.41	11.01	14.28	18.12	22.12	0.2	30.9	38.0	14.6	18.8	19.4	18.3	17.5	36.9	-3.7	8.3	2.4	3.5

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	22.4	29.0	40.7	37.8	39.0	39.6	40.0	40.5									2.4	-1.5	0.5	0.2	0.0
Coal	19.4	23.5	35.0	35.6	36.2	36.8	37.4	38.0									2.4	0.3	0.3	0.3	0.3
Oil	29.4	29.7	32.3	-	-	-	-	-									0.4	-	-	-	-
Natural gas	17.2	34.1	49.9	50.4	50.8	51.2	51.6	52.0									4.4	0.2	0.2	0.2	0.2

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	4.7	12.0	49.0	90.4	117.9	145.2	169.2	195.2	100	100	100	100	100	100	100	100	9.8	13.0	4.9	3.0	5.7
Coal	2.5	4.7	28.0	63.9	82.7	101.2	118.3	135.7	53.2	39.2	57.2	70.7	70.1	69.7	69.9	69.5	10.1	17.9	4.7	3.0	6.5
Oil	2.2	6.4	13.9	19.4	24.4	30.3	35.3	41.7	46.8	53.3	28.5	21.5	20.7	20.9	20.9	21.4	7.7	6.8	4.6	3.2	4.5
Natural gas	0.0	0.9	7.0	7.1	10.8	13.6	15.7	17.9	0.0	7.5	14.3	7.8	9.2	9.4	9.3	9.1	-	0.2	6.8	2.7	3.8

Energy and economic indicators

									AAGR(%)					
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040	
GDP (billions of 2010 US dollars)	17.8	36.8	154.5	216.7	296.9	397.3	519.3	662.8	9.0	7.0	6.2	5.2	6.0	
Population (millions of people)	66.0	77.6	91.7	96.2	100.1	103.1	105.4	107.0	1.3	1.0	0.7	0.4	0.6	
GDP per capita (thousands of 2010 US\$/person)	0.3	0.5	1.7	2.25	3.0	3.9	4.9	6.2	7.6	6.0	5.5	4.9	5.3	
Primary energy consumption per capita (toe/person)	0.3	0.4	0.8	1.12	1.37	1.61	1.82	2.06	4.2	7.9	3.7	2.5	4.0	
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	1,006	780	453	495	461	417	369	332	-3.1	1.8	-1.7	-2.3	-1.2	
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	905	681	364	354	325	290	255	228	-3.6	-0.6	-2.0	-2.4	-1.9	
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	265	326	317	417	397	365	326	295	0.7	5.7	-1.3	-2.1	-0.3	
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.3	0.4	0.7	0.84	0.86	0.88	0.88	0.89	4.0	3.8	0.4	0.1	1.0	
Automobile ownership volume (millions of vehicles)	-	-	-	-	-	-	-	-	-	-	-	-	-	
Automobile ownership volume per capita (vehicles per person).	-	-	-	-	-	-	-	-	-	-	-	-	-	

Viet Nam (APS)

Primary energy supply

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	17.86	28.74	70.06	104.37	128.16	149.37	166.23	183.66	100	100	100	100	100	100	100	100	5.6	8.3	3.7	2.1	3.9
Coal	2.21	4.37	25.18	54.63	65.11	74.30	81.81	88.71	12.4	15.2	35.9	52.3	50.8	49.7	49.2	48.3	10.2	16.8	3.1	1.8	5.2
Oil	2.71	7.81	15.58	21.66	28.23	35.30	42.05	49.81	15.2	27.2	22.2	20.8	22.0	23.6	25.3	27.1	7.2	6.8	5.0	3.5	4.8
Natural gas	0.00	1.12	9.62	9.37	14.66	18.63	20.98	23.42	0.0	3.9	13.7	9.0	11.4	12.5	12.6	12.8	38.1	-0.5	7.1	2.3	3.6
Nuclear	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	0.46	1.25	5.43	4.16	4.71	4.85	4.67	4.54	2.6	4.4	7.8	4.0	3.7	3.2	2.8	2.5	10.4	-5.2	1.6	-0.7	-0.7
Geothermal	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	12.47	14.19	14.25	14.55	15.46	16.29	16.72	17.18	69.8	49.4	20.3	13.9	12.1	10.9	10.1	9.4	0.5	0.4	1.1	0.5	0.8
Biomass	12.47	14.19	14.78	13.92	14.13	14.15	13.77	13.12	69.8	49.4	21.1	13.3	11.0	9.5	8.3	7.1	0.7	-1.2	0.2	-0.8	-0.5
Solar, Wind, Ocean	-	-	0.02	0.16	0.86	1.63	2.25	2.87	0.0	0.0	0.0	0.2	0.7	1.1	1.4	1.6	-	53.8	26.0	5.8	22.3
Biofuels	-	-	0.00	0.00	0.00	0.00	0.19	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	-	-100.0	-	-	24.0
Electricity	-	-	-0.55	0.47	0.47	0.51	0.51	0.51	0.0	0.0	-0.8	0.4	0.3	0.3	0.3	0.3	-	-196.8	0.9	0.0	-199.7

Final energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	16.06	25.09	56.31	74.36	90.90	105.61	117.66	130.15	100	100	100	100	100	100	100	100	5.1	5.7	3.6	2.1	3.4
Industry	4.54	7.86	23.68	35.47	45.37	52.62	58.39	64.29	28.3	31.3	42.0	47.7	49.9	49.8	49.6	49.4	6.8	8.4	4.0	2.0	4.1
Transportation	1.38	3.50	10.46	14.46	18.80	23.82	28.49	33.23	8.6	13.9	18.6	19.4	20.7	22.6	24.2	25.5	8.4	6.7	5.1	3.4	4.7
Others	10.11	13.60	20.95	22.75	24.50	26.36	27.31	28.43	63.0	54.2	37.2	30.6	27.0	25.0	23.2	21.8	3.0	1.7	1.5	0.8	1.2
Non-energy	0.03	0.13	1.23	1.68	2.23	2.81	3.46	4.20	0.2	0.5	2.2	2.3	2.5	2.7	2.9	3.2	16.3	6.5	5.3	4.1	5.1
Total	16.06	25.09	56.31	74.36	90.90	105.61	117.66	130.15	100	100	100	100	100	100	100	100	5.1	5.7	3.6	2.1	3.4
Coal	1.33	3.22	12.65	19.23	24.09	26.84	27.73	28.35	8.3	12.8	22.5	25.9	26.5	25.4	23.6	21.8	9.4	8.7	3.4	0.5	3.3
Oil	2.33	6.51	14.23	19.13	24.74	31.16	37.34	43.77	14.5	26.0	25.3	25.7	27.2	29.5	31.7	33.6	7.5	6.1	5.0	3.5	4.6
Natural gas	0.00	0.02	1.49	2.66	3.85	5.14	6.48	7.95	0.0	0.1	2.6	3.6	4.2	4.9	5.5	6.1	-	12.3	6.8	4.5	6.9
Electricity	0.53	1.93	12.14	19.17	24.75	29.68	33.88	38.13	3.3	7.7	21.6	25.8	27.2	28.1	28.8	29.3	13.3	9.6	4.5	2.5	4.7
Heat	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	11.87	13.41	15.81	14.18	13.48	12.80	12.23	11.95	73.9	53.4	28.1	19.1	14.8	12.1	10.4	9.2	1.2	-2.1	-1.0	-0.7	-1.1

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	8.68	26.57	159.81	236.17	305.82	366.66	418.57	470.84	100	100	100	100	100	100	100	100	12.4	8.1	4.5	2.5	4.4
Coal	2.00	3.14	51.00	148.23	176.49	209.73	245.31	280.77	23.1	11.8	31.9	62.8	57.7	57.2	58.6	59.6	10.1	23.8	3.5	3.0	7.1
Oil	1.31	4.52	0.30	0.00	0.00	0.00	0.00	0.00	15.0	17.0	0.2	0.0	0.0	0.0	0.0	0.0	-5.8	-100.0	-	-	-100.0
Natural gas	0.01	4.36	44.93	36.66	61.89	77.44	85.86	94.51	0.1	16.4	28.1	15.5	20.2	21.1	20.5	20.1	42.9	-40.0	7.8	2.0	3.0
Nuclear	0.00	0.00	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Hydro	5.37	14.55	63.19	48.34	54.77	56.44	54.32	52.81	61.8	54.8	39.5	20.5	17.9	15.4	13.0	11.2	10.4	-5.2	1.6	-0.7	-0.7
Geothermal	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
Others	-	-	0.39	2.94	12.67	23.05	33.07	42.74	0.0	0.0	0.2	1.2	4.1	6.3	7.9	9.1	-	49.6	22.9	6.4	20.6

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1.27	3.56	20.35	41.47	50.87	59.35	66.81	73.90	100	100	100	100	100	100	100	100	11.7	15.3	3.7	2.2	5.3
Coal	0.89	1.15	12.53	35.41	41.01	47.46	54.08	60.36	69.8	32.3	61.6	85.4	80.6	80.0	80.9	81.7	11.2	23.1	3.0	2.4	6.5
Oil	0.38	1.31	0.08	0.00	0.00	0.00	0.00	0.00	30.0	36.8	0.4	0.0	0.0	0.0	0.0	0.0	-6.1	-100.0	-	-	-100.0
Natural gas	0.00	1.10	7.74	6.06	9.86	11.89	12.73	13.54	0.2	30.9	38.0	14.6	19.4	20.0	19.1	18.3	36.9	-4.8	7.0	1.3	2.3

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	22.4	29.0	40.7	38.3	40.3	41.6	42.6	43.7									2.4	-1.2	0.8	0.5	0.3
Coal	19.4	23.5	35.0	36.0	37.0	38.0	39.0	40.0									2.4	0.6	0.5	0.5	0.5
Oil	29.4	29.7	32.3	-	-	-	-	-									0.4	-	-	-	-
Natural gas	17.2	34.1	49.9	52.0	54.0	56.0	58.0	60.0									4.4	0.8	0.7	0.7	0.7

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	4.7	12.0	49.0	86.1	105.6	123.2	136.4	149.9	100	100	100	100	100	100	100	100	9.8	11.9	3.7	2.0	4.6
Coal	2.5	4.7	28.0	60.3	72.2	82.6	90.5	97.7	53.2	39.2	57.2	70.1	68.4	67.1	66.3	65.1	10.1	16.6	3.2	1.7	5.1
Oil	2.2	6.4	13.9	18.7	22.8	27.4	30.9	35.3	46.8	53.3	28.5	21.8	21.6	22.2	22.6	23.5	7.7	6.1	3.9	2.6	3.8
Natural gas	0.0	0.9	7.0	7.0	10.6	13.2	15.0	17.0	0.0	7.5	14.3	8.1	10.0	10.7	11.0	11.3	-	-0.1	6.5	2.6	3.6

Energy and economic indicators

									AAGR(%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
GDP (billions of 2010 US dollars)	17.8	36.8	154.5	216.7	296.9	397.3	519.3	662.8	9.0	7.0	6.2	5.2	6.0
Population (millions of people)	66.0	77.6	91.7	96.2	100.1	103.1	105.4	107.0	1.3	1.0	0.7	0.4	0.6
GDP per capita (thousands of 2010 US\$/person)	0.3	0.5	1.7	2.25	3.0	3.9	4.9	6.2	7.6	6.0	5.5	4.9	5.3
Primary energy consumption per capita (toe/person)	0.3	0.4	0.8	1.09	1.28	1.45	1.58	1.72	4.2	7.3	2.9	1.7	3.3
Primary energy consumption per unit of GDP (toe/million 2010 US dollars)	1,006	780	453	482	432	376	320	277	-3.1	1.2	-2.4	-3.0	-2.0
Final energy consumption per unit of GDP (toe/million 2010 US dollars)	905	681	364	343	306	266	227	196	-3.6	-1.2	-2.5	-3.0	-2.4
CO2 emissions per unit of GDP (t-C/million 2010 US dollars)	265	326	317	397	356	310	263	226	0.7	4.6	-2.4	-3.1	-1.3
CO2 emissions per unit of primary energy consumption (t-C/toe)	0.3	0.4	0.7	0.82	0.82	0.83	0.82	0.82	4.0	3.4	0.0	-0.1	0.6
Automobile ownership volume (millions of vehicles)									-	-	-	-	-
Automobile ownership volume per capita (vehicles per person)	-	-	-	-	-	-	-	-	-	-	-	-	-

United States (BAU)

Primary energy consumption

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1,915.1	2,273.3	2,188.3	2,164.6	2,160.6	2,167.3	2,155.3	2,143.0	100	100	100	100	100	100	100	100	0.5	-0.2	0.0	-0.1	-0.1
Coal	460.3	533.6	374.1	334.6	319.8	311.4	301.4	289.3	24.0	23.5	17.1	15.5	14.8	14.4	14.0	13.5	-0.8	-2.2	-0.7	-0.7	-1.0
Oil	756.8	871.1	794.0	765.7	737.3	719.0	697.3	676.9	39.5	38.3	36.3	35.4	34.1	33.2	32.4	31.6	0.2	-0.7	-0.6	-0.6	-0.6
Natural gas	438.2	547.6	646.4	663.6	681.0	702.4	717.1	724.6	22.9	24.1	29.5	30.7	31.5	32.4	33.3	33.8	1.6	0.5	0.6	0.3	0.5
Nuclear	159.4	207.9	216.4	210.0	210.2	208.7	195.9	190.7	8.3	9.1	9.9	9.7	9.7	9.6	9.1	8.9	1.2	-0.6	-0.1	-0.9	-0.5
Hydro	23.5	21.8	21.6	25.0	25.2	25.4	25.5	25.7	1.2	1.0	1.0	1.2	1.2	1.2	1.2	1.2	-0.3	3.0	0.2	0.1	0.7
Geothermal	14.1	13.1	9.0	13.5	18.8	20.8	23.6	26.3	0.7	0.6	0.4	0.6	0.9	1.0	1.1	1.2	-1.8	8.4	4.5	2.3	4.4
Others	62.7	78.2	126.9	152.2	168.2	179.6	194.4	209.5	3.3	3.4	5.8	7.0	7.8	8.3	9.0	9.8	2.9	3.7	1.7	1.6	2.0
Biomass	61.5	67.3	60.6	65.9	68.5	70.7	72.2	73.8	3.2	3.0	2.8	3.0	3.2	3.3	3.3	3.4	-0.1	1.7	0.7	0.4	0.8
Solar, Wind, Ocean	0.3	2.1	22.4	39.3	47.6	57.4	69.4	81.4	0.0	0.1	1.0	1.8	2.2	2.6	3.2	3.8	18.5	11.9	3.9	3.6	5.3
Biofuels	0.7	5.9	38.2	42.5	47.5	46.9	48.3	49.7	0.0	0.3	1.7	2.0	2.2	2.2	2.2	2.3	17.1	2.2	1.0	0.6	1.1
Electricity	0.2	2.9	5.7	4.6	4.6	4.6	4.6	4.6	0.0	0.1	0.3	0.2	0.2	0.2	0.2	0.2	15.1	-4.4	0.0	0.0	-0.9

Final energy demand

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1,293.5	1,546.2	1,520.1	1,514.8	1,513.1	1,521.6	1,519.9	1,514.8	100	100	100	100	100	100	100	100	0.6	-0.1	0.0	0.0	0.0
Industry	283.7	323.3	261.6	259.1	260.3	264.0	265.3	265.0	21.9	21.5	17.2	17.1	17.2	17.4	17.5	17.5	-0.3	-0.2	0.2	0.0	0.1
Transportation	487.6	588.2	629.0	612.6	595.6	583.6	569.8	559.0	37.7	38.0	41.4	40.4	39.4	38.4	37.5	36.9	1.0	-0.5	-0.5	-0.4	-0.5
Others	403.2	472.7	506.3	515.8	525.4	537.3	544.9	549.4	31.2	30.6	33.3	34.1	34.7	35.3	35.8	36.3	0.9	0.4	0.4	0.2	0.3
Non-energy	119.0	153.0	123.3	127.2	131.8	136.7	140.0	141.5	9.2	9.9	8.1	8.4	8.7	9.0	9.2	9.3	0.1	0.6	0.7	0.3	0.6
Total	1,293.5	1,546.2	1,520.1	1,514.8	1,513.1	1,521.6	1,519.9	1,514.8	100	100	100	100	100	100	100	100	0.6	-0.1	0.0	0.0	0.0
Coal	55.7	32.6	19.5	18.3	17.5	16.8	16.0	15.1	4.3	2.1	1.3	1.2	1.2	1.1	1.1	1.0	-4.1	-1.3	-0.8	-1.1	-1.0
Oil	683.3	793.4	757.9	735.9	710.5	694.7	674.0	654.5	52.8	51.3	49.9	48.6	47.0	45.7	44.3	43.2	0.4	-0.6	-0.6	-0.6	-0.6
Natural gas	303.0	359.9	333.2	337.2	344.7	354.2	358.4	359.9	23.4	23.3	21.9	22.3	22.8	23.3	23.6	23.8	0.4	0.2	0.5	0.2	0.3
Electricity	226.5	301.0	325.2	336.6	349.1	365.6	380.6	393.9	17.5	19.5	21.4	22.2	23.1	24.0	25.0	26.0	1.5	0.7	0.8	0.7	0.8
Heat	2.2	5.3	5.5	5.6	5.8	6.1	6.3	6.5	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	3.8	0.4	0.9	0.6	0.7
Others	22.9	54.1	79.0	81.2	85.4	84.1	84.6	85.0	1.8	3.5	5.2	5.4	5.6	5.5	5.6	5.6	5.1	0.6	0.3	0.1	0.3

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	3,202.8	4,025.9	4,297.0	4,462.4	4,622.7	4,812.2	5,016.1	5,173.8	100	100	100	100	100	100	100	100	1.2	0.8	0.8	0.7	0.7
Coal	1,699.6	2,129.5	1,471.0	1,316.0	1,291.7	1,302.6	1,302.9	1,279.3	53.1	52.9	34.2	29.5	27.9	27.0	26.0	24.7	-0.6	-2.2	-0.1	-0.2	-0.6
Oil	130.6	118.5	38.8	14.8	13.8	11.9	11.5	10.8	4.1	2.9	0.9	0.3	0.3	0.2	0.2	0.2	-4.7	-17.5	-2.2	-1.0	-5.0
Natural gas	381.7	634.3	1,372.6	1,512.1	1,581.3	1,671.7	1,778.9	1,854.2	11.9	15.8	31.9	33.9	34.2	34.6	35.5	35.8	5.3	2.0	1.0	1.0	1.2
Nuclear	611.6	797.7	830.3	805.8	806.6	800.8	751.8	731.9	19.1	19.8	19.3	18.1	17.4	16.6	15.0	14.1	1.2	-0.6	-0.1	-0.9	-0.5
Hydro	273.2	253.2	251.0	290.5	293.2	295.4	297.1	298.4	8.5	6.3	5.8	6.5	6.3	6.1	5.9	5.8	-0.3	3.0	0.2	0.1	0.7
Geothermal	16.0	14.6	18.7	28.4	39.9	44.2	50.0	55.9	0.5	0.4	0.4	0.6	0.9	0.9	1.0	1.1	0.6	8.6	4.5	2.4	4.5
Others	90.1	78.1	314.6	494.8	596.2	704.6	824.0	943.3	2.8	1.9	7.3	11.1	12.9	14.6	16.4	18.2	5.1	9.5	3.6	3.0	4.5

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	513.0	668.0	591.4	560.4	551.2	549.9	550.0	544.0	100	100	100	100	100	100	100	100	0.6	-1.1	-0.2	-0.1	-0.3
Coal	396.0	501.6	340.8	303.1	289.3	281.8	272.9	262.0	77.2	75.1	57.6	54.1	52.5	51.2	49.6	48.2	-0.6	-2.3	-0.7	-0.7	-1.0
Oil	27.2	29.6	8.9	3.5	3.2	2.7	2.6	2.4	5.3	4.4	1.5	0.6	0.6	0.5	0.5	0.4	-4.4	-17.2	-2.3	-1.1	-5.1
Natural gas	89.7	136.9	241.7	253.8	258.7	265.4	274.5	279.6	17.5	20.5	40.9	45.3	46.9	48.3	49.9	51.4	4.0	1.0	0.4	0.5	0.6

Thermal efficiency

	%																AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	37.1	37.1	41.9	43.6	45.0	46.7	48.4	49.7									0.5	0.8	0.7	0.6	0.7
Coal	36.9	36.5	37.1	37.3	38.4	39.8	41.1	42.0									0.0	0.1	0.6	0.5	0.5
Oil	41.2	34.5	37.5	36.9	37.2	37.5	37.9	38.2									-0.4	-0.3	0.2	0.2	0.1
Natural gas	36.6	39.9	48.8	51.2	52.6	54.2	55.7	57.0									1.2	1.0	0.6	0.5	0.6

CO₂ Emissions

	Mt-C								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	1,314.7	1,532.0	1,382.9	1,324.4	1,292.2	1,277.6	1,255.4	1,228.9	100	100	100	100	100	100	100	100	0.2	-0.9	-0.4	-0.4	-0.5
Coal	497.1	576.3	404.1	361.4	345.4	336.3	325.5	312.5	37.8	37.6	29.2	27.3	26.7	26.3	25.9	25.4	-0.8	-2.2	-0.7	-0.7	-1.0
Oil	545.6	615.8	574.4	548.0	521.3	502.6	482.2	464.1	41.5	40.2	41.5	41.4	40.3	39.3	38.4	37.8	0.2	-0.9	-0.9	-0.8	-0.8
Natural gas	272.0	339.8	404.4	415.0	425.5	438.7	447.7	452.3	20.7	22.2	29.2	31.3	32.9	34.3	35.7	36.8	1.6	0.5	0.6	0.3	0.4

United States (APS)

Primary energy consumption

	Mtoe									Share, %									AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040		
Total	1,915.1	2,273.3	2,188.3	2,140.3	2,085.3	2,033.8	1,966.0	1,910.2	100	100	100	100	100	100	100	100	0.5	-0.4	-0.5	-0.6	-0.5		
Coal	460.3	533.6	374.1	319.4	259.9	213.7	171.3	129.7	24.0	23.5	17.1	14.9	12.5	10.5	8.7	6.8	-0.8	-3.1	-3.9	-4.9	-4.1		
Oil	756.8	871.1	794.0	766.2	712.7	662.5	611.7	567.6	39.5	38.3	36.3	35.8	34.2	32.6	31.1	29.7	0.2	-0.7	-1.4	-1.5	-1.3		
Natural gas	438.2	547.6	646.4	647.5	648.7	654.5	648.0	626.6	22.9	24.1	29.5	30.3	31.1	32.2	33.0	32.8	1.6	0.0	0.1	-0.4	-0.1		
Nuclear	159.4	207.9	216.4	210.0	210.2	208.7	197.7	206.5	8.3	9.1	9.9	9.8	10.1	10.3	10.1	10.8	1.2	-0.6	-0.1	-0.1	-0.2		
Hydro	23.5	21.8	21.6	25.0	25.2	25.4	25.5	25.7	1.2	1.0	1.0	1.2	1.2	1.2	1.3	1.3	-0.3	3.0	0.2	0.1	0.7		
Geothermal	14.1	13.1	9.0	13.5	26.1	33.2	38.0	42.8	0.7	0.6	0.4	0.6	1.3	1.6	1.9	2.2	-1.8	8.4	9.4	2.6	6.4		
Others	62.7	78.2	126.9	158.9	202.5	235.7	273.9	311.3	3.3	3.4	5.8	7.4	9.7	11.6	13.9	16.3	2.9	4.6	4.0	2.8	3.7		
Biomass	61.5	67.3	60.6	67.7	70.8	73.3	74.6	76.0	3.2	3.0	2.8	3.2	3.4	3.6	3.8	4.0	-0.1	2.2	0.8	0.4	0.9		
Solar, Wind, Ocean	0.3	2.1	22.4	43.3	68.7	91.3	121.4	151.4	0.0	0.1	1.0	2.0	3.3	4.5	6.2	7.9	18.5	14.1	7.7	5.2	8.0		
Biofuels	0.7	5.9	38.2	43.3	58.4	66.6	73.3	79.3	0.0	0.3	1.7	2.0	2.8	3.3	3.7	4.2	17.1	2.5	4.4	1.8	3.0		
Electricity	0.2	2.9	5.7	4.6	4.6	4.6	4.6	4.6	0.0	0.1	0.3	0.2	0.2	0.2	0.2	0.2	15.1	-4.4	0.0	0.0	-0.9		

Final energy demand

	Mtoe									Share, %									AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040		
Total	1,293.5	1,546.2	1,520.1	1,503.9	1,476.4	1,449.7	1,413.7	1,379.0	100	100	100	100	100	100	100	100	0.6	-0.2	-0.4	-0.5	-0.4		
Industry	283.7	332.3	261.6	257.5	255.5	254.8	250.3	243.2	21.9	21.5	17.2	17.1	17.3	17.6	17.7	17.6	-0.3	-0.3	-0.1	-0.5	-0.3		
Transportation	487.6	588.2	629.0	610.0	582.2	553.3	523.6	501.4	37.7	38.0	41.4	40.6	39.4	38.2	37.0	36.4	1.0	-0.6	-1.0	-1.0	-0.9		
Others	403.2	472.7	506.3	509.1	506.9	504.9	499.7	493.0	31.2	30.6	33.3	33.9	34.3	34.8	35.4	35.7	0.9	0.1	-0.1	-0.2	-0.1		
Non-energy	119.0	153.0	123.3	127.2	131.8	136.7	140.0	141.5	9.2	9.9	8.1	8.5	8.9	9.4	9.9	10.3	0.1	0.6	0.7	0.3	0.6		
Total	1,293.5	1,546.2	1,520.1	1,503.9	1,476.4	1,449.7	1,413.7	1,379.0	100	100	100	100	100	100	100	100	0.6	-0.2	-0.4	-0.5	-0.4		
Coal	55.7	32.6	19.5	18.2	17.2	16.2	15.1	13.9	4.3	2.1	1.3	1.2	1.2	1.1	1.1	1.0	-0.4	-1.4	-1.1	-1.5	-1.3		
Oil	683.3	793.4	757.9	732.3	684.2	638.9	591.6	550.9	52.8	51.3	49.9	48.7	46.3	44.1	41.9	39.9	0.4	-0.7	-1.4	-1.5	-1.3		
Natural gas	303.0	359.9	333.2	333.4	332.9	332.4	327.9	321.4	23.4	23.3	21.9	22.2	22.5	22.9	23.2	23.3	0.4	0.0	0.0	-0.3	-0.1		
Electricity	226.5	301.0	325.2	333.2	341.4	354.4	366.2	375.8	17.5	19.5	21.4	22.2	23.1	24.4	25.9	27.3	1.5	0.5	0.6	0.6	0.6		
Heat	2.2	5.3	5.5	5.5	5.7	5.9	6.0	6.0	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	3.8	0.3	0.6	0.1	0.4		
Others	22.9	54.1	79.0	81.3	94.9	101.7	106.8	111.0	1.8	3.5	5.2	5.4	6.4	7.0	7.6	8.1	5.1	0.6	2.3	0.9	1.4		

Power generation output

	TWh								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	3,202.8	4,025.9	4,297.0	4,414.9	4,512.4	4,664.8	4,797.2	4,897.6	100	100	100	100	100	100	100	100	1.2	0.5	0.6	0.5	0.5
Coal	1,699.6	2,129.5	1,471.0	1,256.6	1,038.3	870.9	705.2	525.6	53.1	52.9	34.2	28.5	23.0	18.7	14.7	10.7	-0.6	-3.1	-3.6	-4.9	-4.0
Oil	130.6	118.5	38.8	33.0	27.1	22.6	18.1	13.3	4.1	2.9	0.9	0.7	0.6	0.5	0.4	0.3	-4.7	-3.2	-3.7	-5.2	-4.2
Natural gas	381.7	634.3	1,372.6	1,449.8	1,485.3	1,556.8	1,598.1	1,545.6	11.9	15.8	31.9	32.8	32.9	33.4	33.3	31.6	5.3	1.1	0.7	-0.1	0.5
Nuclear	611.6	797.7	830.3	805.8	806.6	800.8	758.5	792.5	19.1	19.8	19.3	18.3	17.9	17.2	15.8	16.2	1.2	-0.6	-0.1	-0.1	-0.2
Hydro	273.2	253.2	251.0	290.5	293.2	295.4	297.1	298.4	8.5	6.3	5.8	6.6	6.5	6.3	6.2	6.1	-0.3	3.0	0.2	0.1	0.7
Geothermal	16.0	14.6	18.7	28.4	55.5	70.8	81.1	91.5	0.5	0.4	0.4	0.6	1.2	1.5	1.7	1.9	0.6	8.6	9.6	2.6	6.6
Others	90.1	78.1	314.6	550.9	806.3	1,047.5	1,339.1	1,630.7	2.8	1.9	7.3	12.5	17.9	22.5	27.9	33.3	5.1	11.9	6.6	4.5	6.8

Power generation input

	Mtoe								Share, %								AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	513.0	668.0	591.4	537.9	476.7	433.4	389.5	334.1	100	100	100	100	100	100	100	100	0.6	-1.9	-2.1	-2.6	-2.3
Coal	396.0	501.6	340.8	288.0	230.1	185.3	144.4	104.6	77.2	75.1	57.6	53.5	48.3	42.7	37.1	31.3	-0.6	-3.3	-4.3	-5.6	-4.6
Oil	27.2	29.6	8.9	7.7	6.2	5.1	4.0	2.9	5.3	4.4	1.5	1.4	1.3	1.2	1.0	0.9	-4.4	-3.0	-4.0	-5.4	-4.4
Natural gas	89.7	136.9	241.7	242.2	240.4	243.1	241.1	226.5	17.5	20.5	40.9	45.0	50.4	56.1	61.9	67.8	4.0	0.0	0.0	-0.7	-0.3

Thermal efficiency

	%									Share, %									AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040		1990	2000	2015	2020	2025	2030	2035	2040		1990-2015	2015-2020	2020-2030	2030-2040	2015-2040
Total	37.1	37.1	41.9	43.8	46.0	48.6	51.3	53.7											0.5	0.9	1.0	1.0	1.0
Coal	36.9	36.5	37.1	37.5	38.8	40.4	42.0	43.2											0.0	0.2	0.7	0.7	0.6
Oil	41.2	34.5	37.5	37.1	37.6	38.2	38.8	39.3											-0.4	-0.2	0.3	0.3	0.2
Natural gas	36.6	39.9	48.8	51.5	53.1	55.1	57.0	58.7											1.2	1.1	0.7	0.6	0.7

CO₂ Emissions

	Mt-C									Share, %									AAGR (%)				
	1990	2000	2015	2020	2025	2030	2035	2040	1990	2000	2015	2020	2025	2030	2035	2040	1990-2015	2015-2020	2020-2030	2030-2040	2015-2040		
Total	1,314.7	1,532.0	1,382.9	1,298.0	1,186.1	1,094.1	998.8	902.2	100	100	100	100	100	100	100	100	0.2	-1.3	-1.7	-1.9	-1.7		
Coal	497.1	576.3	404.1	344.9	280.7	230.8	185.0	140.1	37.8	37.6	29.2	26.6	23.7	21.1	18.5	15.5	-0.8	-3.1	-3.9	-4.9	-4.1		
Oil	545.6	615.8	574.4	548.5	500.6	455.3	410.4	372.6	41.5	40.2	41.5	42.3	42.2	41.6	41.1	41.3	0.2	-0.9	-1.8	-2.0	-1.7		
Natural gas	272.0	339.8	404.4	404.6	404.8	408.0	403.4	389.5	20.7	22.2	29.2	31.2	34.1	37.3	40.4	43.2	1.6	0.0	0.1	-0.5	-0.2		