



Department of Energy

Energy Data Collection, Management and Analysis Directorate



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA

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Data Gaps and data collection

Questions to be discussed in each sector will include:

1. What data or indicators are available?
2. What data is meaningful for indicators?
3. What data is or could be collected, and how it should be collected?



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Data gaps and Energy Balances limitations

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2010										
Million tonnes of oil equivalent										
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil	Oil products	Natural Gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat
Production	3596.04	4069.38	-	2719.10	718.96	295.62	112.02	1277.08	-	1.04
Imports	640.82	2295.06	1053.71	817.02	-	-	-	10.78	51.38	0.00
Exports	-681.28	-2211.55	-1111.80	-826.35	-	-	-	-8.29	-50.74	-0.01
Stock changes	-79.80	6.49	6.16	17.84	-	-	-	-0.54	-	-
	3475.77	4159.37	-51.93	2727.61	718.96	295.62	112.02	1278.03	0.64	1.04
Losses	0.00	-156.64	179.33	-	-	-	-	-	-	-
Transformation	-49.50	11.30	-27.05	-1.68	-	-	0.00	-0.40	1.43	-1.24
Manufacturing and construction	-1974.84	-34.63	-201.57	-705.47	-715.67	-295.62	-88.61	-63.40	1671.71	-0.37
Transport	-161.19	-0.01	-22.50	-304.76	-3.13	-	-1.06	-35.21	171.56	150.84
Buildings	-103.61	-0.81	-12.92	-90.14	-0.15	-	-0.22	-10.42	-0.34	189.23
Other	-168.50	-	-0.79	-0.11	-	-	-	-	-	-
Electricity	-8.80	-	-3.53	2.81	-	-	-	-0.02	-	-
Heat	-51.08	-	-2.40	-0.00	-	-	-	-0.01	-	-
Losses	-	-3964.42	3921.30	-0.80	-	-	-	-	-	-
Transformation	-	30.51	-31.35	-	-	-	-	-	-	-
Manufacturing and construction	-16.20	7.85	-	-7.10	-	-	-	-	-	-
Transport	0.01	0.13	-0.17	-2.22	-	-	-	-53.14	-	-0.39
Buildings	-86.22	-10.10	-210.37	-275.36	-	-	-0.13	-13.27	-156.15	-40.51
Other	-2.70	-8.23	-0.58	-24.63	-	-	-0.14	-0.15	-153.17	-22.67
	853.14	34.34	3535.48	1318.16	-	-	21.87	1102.01	1535.69	275.93
Electricity	677.86	12.51	310.02	463.87	-	-	0.46	195.83	636.96	125.43
Heat	248.74	0.03	11.36	51.71	-	-	0.01	4.16	87.06	17.48
Losses	58.37	2.18	-	-	-	-	-	95.52	45.11	350.39
Transformation	14.47	0.00	-	-	-	-	-	18.40	2.97	108.96
Manufacturing and construction	176.70	0.00	-	-	-	-	-	10.97	3.01	315.43
Transport	4.67	0.00	-	-	-	-	-	8.39	4.22	41.83
Buildings	14.34	0.00	-	-	-	-	-	7.77	6.78	122.39
Other	6.93	0.00	-	-	-	-	-	3.72	2.52	66.11
Electricity	22.70	0.10	-	-	-	-	-	4.93	11.20	162.78
Heat	21.66	0.00	-	-	-	-	-	0.87	10.88	190.79
Losses	2.71	0.00	-	-	-	-	-	7.89	5.87	36.14
Transformation	6.12	0.05	-	-	-	-	-	8.00	1.78	49.41
Manufacturing and construction	11.18	0.06	5.59	7.14	-	-	0.50	0.23	23.22	7.01
Transport	89.28	9.93	104.85	115.59	-	-	0.30	86.95	120.21	6.60
Buildings	3.36	0.04	2195.89	89.06	-	-	-	57.56	23.91	-
Other	-	-	153.65	-	-	-	-	-	-	2369.81
Electricity	-	-	-	-	-	-	-	-	-	153.65
Heat	-	-	-	-	-	-	-	-	-	-

No breakdown by end use:

- space heating
- water heating
- lighting
- cooking
- air conditioning
- appliances

What most countries collect on a regular basis is limited to aggregated levels

No breakdown by end use and by service category

	Coal & Peat	Crude Oil	Oil Products	Gas	Nuclear	Hydro	Geoth.	Solar	Comb. Ren. & Waste	Electricity	Heat	Total
OTHER SECTORS	136.42	0.23	425.87	633.44	-	-	14.37	-	834.05	820.32	145.22	3036.92
Residential	76.58	-	222.89	418.55	-	-	6.98	-	805.42	395.81	97.97	2024.19
Comm. & Pub. Services	25.30	-	107.32	173.79	-	-	1.15	-	16.33	338.31	32.47	692.67
Agriculture/Forestry	9.57	0.02	102.97	5.58	-	-	0.16	-	7.02	36.20	3.36	164.88
Fishing	0.01	-	5.69	0.02	-	-	0.03	-	-	0.36	0.06	6.17
Non-specified	26.96	0.21	14.00	35.51	-	-	6.05	-	5.28	49.64	11.36	149.01

