

A2.4 Energy balance for year ended December 2005

TABLE A2.5

New Zealand energy balance for year ended December 2005 (MED, 2006b)

ENERGY SUPPLY AND DEMAND BALANCE DECEMBER YEAR 2005

CONVERTED INTO PETAJOULES USING GROSS CALORIFIC VALUES	COAL						OIL								GAS		RENEWABLES							ELECTRICITY	WASTE HEAT	TOTAL		
	BITUMINOUS		SUB- BITUM.	BITUMINOUS & SUB- BITUM.	LIGNITE	PEAT/ COKE	TOTAL	CRUDES/ FEEDSTOCKS	LPG/NGL	MOTOR GASOLINE	DIESEL	FUEL OIL	AV. FUEL/ KERO	OTHERS	TOTAL	NATURAL GAS	HYDRO	GEO- THERMAL	SOLAR	WIND	BIOGAS	WOOD	TOTAL					
	COKING	OTHER																										
Indigenous Production	77.07	2.915	5.59	135.57	3.98		139.55	38.89	8.74						47.63	148.60	84.49	80.96	0.23	2.22	1.44	42.71	212.04		1.13	548.95		
+ Imports		1.852	2.93	24.78	0.00	0.14	24.92	218.72	0.57	39.45	32.62	0.00	10.63	7.08	309.07												333.99	
- Exports	73.45			73.45	0.00	0.05	73.50	28.11	0.65	0.57	0.15	6.75	0.00	0.00	36.23												109.73	
- Stock Change				-6.46			-6.46	-5.01	0.23	1.82	-2.70	-1.73	-0.29	0.35	-7.33	0.06											-13.72	
- International Transport										0.02	0.81	9.65	36.28	0.00	46.77												46.77	
TOTAL PRIMARY ENERGY	3.61	4.76	78.52	93.35	3.98	0.09	97.42	234.51	8.43	37.04	34.35	-14.67	-25.36	6.73	281.03	148.54	84.49	80.96	0.23	2.22	1.44	42.71	212.04		1.13	740.16		
ENERGY TRANSFORMATION				-54.15			-54.15	-234.51	-0.80	78.25	73.03	27.14	40.91	5.29	-10.70	-83.19	-84.49	-71.28		-2.22	-1.32	-7.30	-166.61		135.63	-1.13	-180.15	
of which				-53.17			-53.17									-54.95	-84.49	-64.64		-2.22	-0.99		-152.34		142.73		-117.73	
Cogeneration				-0.88			-0.88									-23.11	-0.64				-0.33	-7.30	-8.27		12.22	-1.13	-21.16	
Oil Production								-234.51		77.69	74.88	25.93	40.75	13.43	1.82												-1.82	
Losses and Own Use				-0.10			-0.10		-0.80	0.55	-1.85	1.20	0.16	-8.84	-8.88												-39.45	
Non-energy Use				-18.17			-18.17								-12.02	-19.98											-50.17	
CONSUMER ENERGY (calculated)		4.76	78.52	21.03	3.98	0.09	25.10		7.63	115.29	107.38	12.47	15.55	0.00	258.31	45.36		9.67	0.23	0.00	0.12	35.42	45.44		135.63	0.00	509.84	
Agriculture				1.21	0.013		1.22			1.15	10.78	1.09	0.23		13.25	1.78										4.86	21.11	
of which				1.21	0.013		1.22			1.12	6.82	0.01	0.22		8.17	1.78											4.67	15.85
Fishing										0.03	3.96	1.08	0.00		5.07												0.18	5.26
Industrial				11.98	3.51		15.49		2.71	0.47	12.03	0.96	0.20		16.35	29.51		5.71				27.27	32.99		52.09		146.44	
of which										0.01	2.87	0.25	0.01		3.15	0.18											0.98	4.32
Food Processing										0.00	0.06	0.10	0.00		0.16	10.14											7.49	17.79
Textiles																											0.55	0.55
Wood, Pulp, Paper and Printing																8.18											12.46	20.64
Chemicals																2.52											2.21	4.73
Non-metallic Minerals																3.70											0.80	4.50
Basic Metals											0.00																23.49	23.49
Mechanical/Electrical Equipment																											1.19	1.19
Building and Construction										0.01	2.74	0.01	0.10		2.87	0.08											0.85	3.80
Unallocated				11.98	3.51		15.49		2.71	0.44	6.35	0.59	0.08		10.18	4.72		5.71					27.27	32.99		2.05	65.44	
Commercial				2.86	0.52		3.37		1.37	0.13	6.37	1.13	0.67		9.68	7.38		3.86			0.12			3.97		26.17	50.57	
Residential				0.47	0.41		0.89		2.25	0.00	0.00	0.00	0.00		2.26	6.49		0.10	0.23			8.15	8.48		46.54	64.65		
Domestic Transport				0.08			0.08		1.29	109.24	77.46	5.46	15.10		208.56	0.20										2.21	211.04	
CONSUMER ENERGY (observed)				16.61	4.45	0.00	21.06		7.63	110.99	106.65	8.64	16.19	0.00	250.09	45.36		9.67	0.23		0.12	35.42	45.44		131.86	0.00	493.80	
Statistical Differences				4.43	-0.48	0.09	4.04		0.00	4.30	0.73	3.84	-0.65	0.00	8.22	0.00		0.00	0.00		0.00	0.00	0.00		3.77	0.00	16.03	