

APPENDIX A: ENERGY BALANCES 1996-1999

Table: Energy balance 1996

Figures in PJ	Hard coal	Coking coal	Bituminous coal	Coke oven coal	Coal gas	Coke oven gas	Blast furnace gas	Solid biomass	Natural gas	Crude and NGL feedstock	Crude oil	Natural gas liquids	Syncrude ¹	LPG	Petro	Avgas ²	Jet fuels	Other kerosene	Diesel	Residual fuels	White spirits	Lubricants	Bitumen	Paraffin	Other petroleum products	Nuclear	Hydro	Electricity	Others	TOTAL
Production	5,458	0	5,458	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	5,458
Imports	0	0	0	0	0	0	0	0	58	849	849	0	0	0	5	0	0	0	4	4	0	0	0	0	0	30	22	0	0	981
Exports	-2,366	0	-2,366	0	0	0	0	0	0	0	0	0	0	0	-27	0	0	0	-96	-14	0	0	0	-10	0	0	0	-12	0	-2,525
Marine Bunkers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-117	0	0	0	0	0	0	0	0	0	-117
Total Primary Supply	3,092	0	3,092	0	0	0	0	0	58	849	849	0	0	0	-22	0	0	0	-92	-127	0	0	0	-10	0	30	22	-12	0	3,797
Electricity plants	-1,640	0	-1,640	0	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-30	-22	651	0	-1,050	
Petroleum refineries	-462	0	-462	0	0	0	0	-52	0	-804	-804	0	0	13	395	0	0	0	310	148	0	0	0	95	0	0	0	0	0	-357
Own use	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
Distribution losses	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
Total Transformation	-2,193	-100	-2,244	51	32	49	397	-54	0	-804	-804	0	13	395	0	0	0	0	310	148	0	0	0	95	-30	-22	564	-87	-1,209	
Agriculture	8	0	8	0	0	0	9	0	0	0	0	0	1	3	0	0	0	0	52	0	0	0	3	0	0	0	0	18	0	94
Transport	1	0	1	0	0	0	0	0	0	0	0	0	0	0	369	52	0	0	131	0	0	0	0	0	0	0	0	13	0	566
Other	36	0	36	0	5	0	0	0	0	0	0	0	2	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0	50
Commerce	15	0	15	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	0	0	0	55	0	76
Residential	58	0	58	0	0	0	86	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	26	0	0	0	91	0	265
Industry	583	0	532	51	26	49	79	0	0	0	0	0	4	0	0	0	0	0	28	17	0	0	4	0	0	0	0	357	0	1,147
Non Energy	198	0	198	0	0	0	222	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	465
Total Demand	899	0	848	51	32	49	397	0	0	0	45	0	13	373	0	0	0	0	217	138	0	0	0	85	0	0	0	535	0	2,783

¹ Coal to oil is considered to take place directly in this sheet.

² Included in petrol.

Table: Energy Balance 1997

	Hard coal	Coking coal	Bituminous coal	Coke oven coal	Coal gas	Coke oven gas	Blast furnace gas	Solid biomass	Natural gas	Crude oil and NGL feed stocks	Crude oil	Natural gas liquids	Syncrude	LPG	Petrol	Avgas	Jet fuels	Other kerosene	Diesel	Residual fuels	White spirits	Lubricants	Bitumen	Paraffin	Other petroleum products	Nuclear	Hydro	Electricity	Others	TOTAL		
Figures in PJ																																
Production	5,564	0	5,564	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	5564	
Imports	0	0	0	0	0	0	0	0	58	852	852	0	0	0	5	0	0	0	4	3	22	0	0	0	31	22	0	0	0	984		
Exports	2,429	0	2,429	0	0	0	0	0	0	0	0	0	0	0	-27	0	0	0	-96	-14	0	0	-10	0	0	0	-13	0	0	-2589		
Marine Bunkers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-117	0	0	0	0	0	0	0	0	0	-117		
Total Primary Supply	3,135	0	3,135	0	0	0	0	58	58	852	852	0	0	0	-22	0	0	0	-92	-128	0	0	-10	0	31	22	-13	0	0	3,842		
Electricity plants	1,676	0	1,676	0	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-31	-22	665	0	0	-1073		
Petroleum refineries	-464	0	-464	0	0	0	0	52	-	807	807	-	13	390	314	390	0	0	314	149	0	99	99	0	0	0	0	0	0	0	-358	
Own use	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		
Distribution losses	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	
Total Transformation	2,233	103	2,286	53	32	51	400	54	-	807	807	-	13	390	313	390	0	0	313	149	0	99	99	0	-31	-22	576	0	0	-1236		
Agriculture	8	0	8	0	0	0	10	0	0	0	0	0	1	3	1	3	0	0	52	0	0	3	3	0	0	0	19	0	0	96		
Transport	1	0	1	0	0	0	0	0	0	0	0	0	0	0	365	0	57	0	135	0	0	0	0	0	0	0	13	0	0	571		
Other	36	0	36	0	5	0	0	0	0	0	0	0	2	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0	50		
Commerce	15	0	15	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	0	0	55	0	0	76		
Residential	58	0	58	0	0	0	86	0	0	0	0	0	4	0	4	0	0	0	0	0	0	25	25	0	0	0	95	0	0	268		
Industry	587	0	534	53	26	51	79	0	0	0	0	0	4	0	4	0	0	0	28	17	0	4	4	0	0	0	364	0	0	1160		
Non Energy	198	0	198	0	0	0	224	0	0	45	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467		
Total Demand	902	0	849	53	32	51	400	0	0	45	45	0	13	368	0	0	0	0	222	138	0	89	89	0	0	0	546	0	0	2806		

Table: Energy Balance 1998

	Hard coal	Coking coal	Bituminous coal	Coke oven coal	Coal gas	Coke oven gas	Blast furnace gas	Solid biomass	Natural gas	Crude oil	Natural gas liquids	Syncrude	LPG	Petrol	Avgas	Jet fuels	Other kerosene	Diesel	Residual fuels	White spirits	Lubricants	Bitumen	Paraffin	Other petroleum products	Nuclear	Hydro	Electricity	Others	TOTAL	
Figures in PJ																														
Production	5,695	0	5,695	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	5,695
Imports	0	0	0	0	0	0	0	0	59	858			0	6	0	0	0	5	2	23			0	32	23	0	0	0	994	
Exports	-2,493	0	-2,493	0	0	0	0	0	0	0	0	0	0	-27	0	0	0	-96	-14	-14			-10	0	0	0	-14	0	-2,654	
Marine Bunkers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-118	0			0	0	0	0	0	0	-118	
Total Primary Supply	3,202	0	3,202	0	0	0	0	0	59	858	0	0	0	-21	0	0	0	-91	-130	0	0	0	-10	32	23	-14	0	0	3,917	
Electricity plants	-1,724	0	-1,724	0	0	0	-2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-32	23	684	0	0	-1,104	
Petroleum refineries	-467	0	-467	0	0	0	0	0	-53	-812			13	386				318	151			103		0	0	0	0	0	-361	
Own use	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	
Distribution losses	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	-91	0	-91	
Total Transformation	-2,287	108	-2,342	55	33	53	404	-55	-812	-812			13	386				318	151			103		-32	23	593			-1,272	
Agriculture	8	0	8	0	0	0	10	0	0	0	0	0	1	3	0	0	0	52	0	0	0	3	0	0	0	0	19	0	96	
Transport	1	0	1	0	0	0	0	0	0	0	0	0	0	360	61	0	139	0	0	0	0	0	0	0	0	13	0	574		
Other	36	0	36	0	5	0	0	0	0	0	0	0	2	0	0	0	6	1	1	2	0	0	0	0	0	0	0	50		
Commerce	15	0	15	0	1	0	0	0	0	0	0	0	2	0	0	0	1	0	2	0	0	0	0	0	0	55	0	76		
Residential	58	0	58	0	0	0	87	0	0	0	0	0	5	0	0	0	0	0	0	0	0	25	0	0	0	99	0	274		
Industry	597	0	542	55	27	53	80	0	0	0	0	0	4	0	0	0	28	17	17	0	0	4	0	0	0	375	0	1,185		
Non Energy	200	0	200	0	0	0	227	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	472		
Total Demand	915	0	860	55	33	53	404	0	0	45	0	0	13	364	0	0	226	139	0	0	0	93	0	0	0	561	0	2,846		

Table: Energy Balance 1999

	Hard coal	Coking coal	Bituminous coal	Coke oven coal	Coal gas	Coke oven gas	Blast furnace gas	Solid biomass	Natural gas	Crude oil	Natural gas liquids	Synchrude	LPG	Petrol	Avgas	Jet fuels	Other kerosene	Diesel	Residual fuels	White spirits	Lubricants	Bitumen	Paraffin	Other petroleum products	Nuclear	Hydro	Electricity	Others	TOTAL	
Figures in PJ																														
Production	5,828	0	5,828	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	5828
Imports	0	0	0	0	0	0	0	0	59	863			0	6				5	1			0	0	0	33	24	0		1001	
Exports	-2,557	0	-2,557	0	0	0	0	0	0	0			0	-27				-96	-14			-10	0	0	0	0	-15		-2719	
Marine Bunkers	0	0	0	0	0	0	0	0	0	0			0	0				0	-120			0	0	0	0	0	0		-120	
Total Primary Supply	3,271	0	3,271	0	0	0	0	0	59	863	0	0	0	-21	0	0	0	-91	-133	0	0	-10	0	0	33	24	-15	0	3,990	
Electricity plants	-1,771	0	-1,771	0	0	0		-2	2	0			0	0				0	0			0	0	-33	-24	703		-1135		
Petroleum refineries	-470	0	-470	0	0	0		0	-53	-818			13	381				322	154			107	0	0	0	0	0		-364	
Own use	0	0	0	0	0	0		0	0	0			0	0				0	0			0	0	0	0	0		0	0	
Distribution losses	0	0	0	0	0	0		0	0	0			0	0				0	0			0	0	0	0	-94			-94	
Total Transformation	-2,344	-113	-2,402	58	34	56		408	-55	-818			13	381				322	154			107			-33	-24	610		-1312	
Agriculture	8	0	8	0	0	0		-10	0	0			1	3				52	0			3	0	0	0	0	20		97	
Transport	1	0	1	0	0	0		0	0	0			0	356		65		143	0			0	0	0	0	0	13		578	
Other	36	0	36	0	5	0		0	0	0			2	0				6	1			0	0	0	0	0	0		50	
Commerce	15	0	15	0	1	0		0	0	0			2	0				1	2			0	0	0	0	0	55		76	
Residential	58	0	58	0	0	0		88	0	0			5	0				0	0			25	0	0	0	103		279		
Industry	608	0	550	58	28	56		81	0	0			4	0				29	18			4	0	0	0	386		1214		
Non Energy	201	0	201	0	0	0		229	0	46			0	0				0	0			0	0	0	0	0	0		476	
Total Demand	927	0	869	58	34	56		408	0	46			13	360				231	141			97	0	0	0	577		2890		