

## APPENDIX A: ENERGY BALANCES 1996-1999

Table: Energy balance 1996

	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 <sup>1</sup>	LPG	Petrol	Avgas <sup>2</sup>	Jet fuels	Other kerosene	Diesel	Residual fuels	White spirits	Lubricants	Bitumen	Paraffin	Other petroleum products	Nuclear	Hydro	Electricity	Others	TOTAL
Figures in PJ																														
Production	5,458	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	5458
Imports	0	0	0	0	0	0	0	0	58	0	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	-27	0	0	0	-96	-14	0	0	0	0	-10	0	0	-12	0	0	-2525
Marine Bunkers	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	0	-117
Total Primary Supply	3,092	0	3,092	0	0	0	0	0	58	0	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	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-30	-22	651	0	0	-1050
Petroleum refineries	-462	0	-462	0	0	0	0	0	-52	0	-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	-87	0	-87
<b>Total Transformation</b>	<b>-2,193</b>	<b>-100</b>	<b>-2,244</b>	<b>51</b>	<b>32</b>	<b>49</b>	<b>0</b>	<b>397</b>	<b>-54</b>	<b>0</b>	<b>-804</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>395</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>310</b>	<b>148</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>95</b>	<b>-30</b>	<b>-22</b>	<b>564</b>	<b>0</b>	<b>-1209</b>	
Agriculture	8	0	8	0	0	0	0	9	0	0	0	0	0	1	3	0	0	0	52	0	0	0	3	0	0	0	18	0	0	94
Transport	1	0	1	0	0	0	0	0	0	0	0	0	0	0	369	0	52	0	131	0	0	0	0	0	0	0	13	0	0	566
Other	36	0	36	0	5	0	0	0	0	0	0	0	0	2	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	50
Commerce	15	0	15	0	1	0	0	0	0	0	0	0	0	2	0	0	0	1	2	0	0	0	0	0	0	0	55	0	0	76
Residential	58	0	58	0	0	0	0	86	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	26	0	0	0	91	0	265
Industry	583	0	532	51	26	49	0	79	0	0	0	0	0	4	0	0	0	28	17	0	0	0	4	0	0	0	357	0	0	1147
Non Energy	198	0	198	0	0	0	0	222	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	0	397	0	0	45	0	0	13	373	0	0	0	217	138	0	0	0	85	0	0	535	0	0	2783

<sup>1</sup> Coal to oil is considered to take place directly in this sheet.

<sup>2</sup> 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 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	5564
Imports	0	0	0	0	0	0	0	0	58	852	0	0	0	5	0	0	0	0	4	3	0	0	0	0	31	22	0	0	984	
Exports	2,429	0	2,429	0	0	0	0	0	0	0	0	0	0	-27	0	0	0	0	-96	-14	0	0	0	-10	0	0	-13	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	-117	
Total Primary Supply	3,135	0	3,135	0	0	0	0	0	58	0	852	0	0	0	-22	0	0	0	-92	-128	0	0	0	-10	0	31	22	-13	0	3,842
Electricity plants	1,676	0	1,676	0	0	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-31	-22	665	0	-1073	
Petroleum refineries	-464	0	-464	0	0	0	0	0	52	807	0	0	13	390	0	0	0	0	314	149	0	0	0	99	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	
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	-89	-89	
<b>Total Transformation</b>	<b>2,233</b>	<b>103</b>	<b>2,286</b>	<b>53</b>	<b>32</b>	<b>51</b>	<b>400</b>	<b>54</b>	<b>807</b>	<b>0</b>	<b>13</b>	<b>390</b>	<b>0</b>	<b>0</b>	<b>313</b>	<b>149</b>	<b>0</b>	<b>0</b>	<b>99</b>	<b>-31</b>	<b>-22</b>	<b>576</b>	<b>0</b>	<b>-31</b>	<b>-22</b>	<b>576</b>	<b>0</b>	<b>-1236</b>		
Agriculture	8	0	8	0	0	0	10	0	0	0	0	1	3	0	0	0	0	0	52	0	0	0	3	0	0	0	19	0	96	
Transport	1	0	1	0	0	0	0	0	0	0	0	0	365	0	0	0	0	0	135	0	0	0	0	0	0	0	13	0	571	
Other	36	0	36	0	5	0	0	0	0	0	0	2	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0	50	
Commerce	15	0	15	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	1	2	0	0	0	0	0	0	55	0	76	
Residential	58	0	58	0	0	0	86	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	25	0	0	0	95	0	268	
Industry	587	0	534	53	26	51	79	0	0	0	0	4	0	0	0	0	0	0	28	17	0	0	4	0	0	0	364	0	1160	
Non Energy	198	0	198	0	0	0	224	0	0	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	0	13	368	0	0	0	0	0	222	138	0	0	89	0	0	546	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 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	5,695	0	5,695	0	0	0		0	0		0			0	0				0	0				0		0	0	0		5695
Imports	0	0	0	0	0	0		0	59		858			0	6				5	2				0		32	23	0		994
Exports	-2,493	0	-2,493	0	0	0		0	0		0			0	-27				-96	-14				-10		0	0	-14		-2654
Marine Bunkers	0	0	0	0	0	0		0	0		0			0	0				0	-118				0		0	0	0		-118
Total Primary Supply	3,202	0	3,202	0	0	0	0	0	59	0	858	0	0	0	-21	0	0	0	-91	-130	0	0	0	-10	0	32	23	-14	0	3,917
Electricity plants	-1,724	0	-1,724	0	0	0		-2	2		0			0	0				0	0				0		-32	23	684		-1104
Petroleum refineries	-467	0	-467	0	0	0		0	-53		-812			13	386				318	151				103		0	0	0		-361
Own use	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	-91		-91
<b>Total Transformation</b>	<b>-2,287</b>	<b>108</b>	<b>-2,342</b>	<b>55</b>	<b>33</b>	<b>53</b>		<b>404</b>	<b>-55</b>		<b>-812</b>			<b>13</b>	<b>386</b>				<b>318</b>	<b>151</b>				<b>103</b>		<b>-32</b>	<b>23</b>	<b>593</b>		<b>-1272</b>
Agriculture	8	0	8	0	0	0		10	0		0			1	3				52	0				3		0	0	19		96
Transport	1	0	1	0	0	0		0	0		0			0	360		61		139	0						0	0	13		574
Other	36	0	36	0	5	0		0	0		0			2	0				6	1				0		0	0	0		50
Commerce	15	0	15	0	1	0		0	0		0			2	0				1	2				0		0	0	55		76
Residential	58	0	58	0	0	0		87	0		0			5	0				0	0				25		0	0	99		274
Industry	597	0	542	55	27	53		80	0		0			4	0				28	17				4		0	0	375		1185
Non Energy	200	0	200	0	0	0		227	0		45			0	0				0	0				0		0	0	0		472
Total Demand	915	0	860	55	33	53		404	0		45			13	364				226	139				93		0	0	561		2846

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 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	5,828	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	0	863	0	0	0	6	0	0	0	5	1	0	0	0	0	33	24	0	0	1001	
Exports	-2,557	0	-2,557	0	0	0	0	0	0	0	0	0	0	-27	0	0	0	-96	-14	0	0	0	-10	0	0	0	-15	-2719		
Marine Bunkers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-120	0	0	0	0	0	0	0	0	-120		
Total Primary Supply	3,271	0	3,271	0	0	0	0	0	59	0	863	0	0	0	-21	0	0	0	-91	-133	0	0	0	-10	0	33	24	-15	0	3,990
Electricity plants	-1,771	0	-1,771	0	0	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-33	-24	703	-1135		
Petroleum refineries	-470	0	-470	0	0	0	0	0	-53	0	-818	0	0	13	381	0	0	0	322	154	0	0	0	107	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	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	-94	-94		
<b>Total Transformation</b>	<b>-2,344</b>	<b>-113</b>	<b>-2,402</b>	<b>58</b>	<b>34</b>	<b>56</b>	<b>0</b>	<b>408</b>	<b>-55</b>	<b>0</b>	<b>-818</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>381</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>322</b>	<b>154</b>	<b>0</b>	<b>0</b>	<b>107</b>	<b>0</b>	<b>-33</b>	<b>-24</b>	<b>610</b>	<b>-1312</b>		
Agriculture	8	0	8	0	0	0	0	10	0	0	0	0	0	1	3	0	0	0	52	0	0	0	3	0	0	0	20	97		
Transport	1	0	1	0	0	0	0	0	0	0	0	0	0	0	356	0	65	0	143	0	0	0	0	0	0	0	13	578		
Other	36	0	36	0	5	0	0	0	0	0	0	0	0	2	0	0	0	0	6	1	0	0	0	0	0	0	0	50		
Commerce	15	0	15	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	0	55	76		
Residential	58	0	58	0	0	0	0	88	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	25	0	0	103	279		
Industry	608	0	550	58	28	56	0	81	0	0	0	0	0	4	0	0	0	0	29	18	0	0	4	0	0	0	386	1214		
Non Energy	201	0	201	0	0	0	0	229	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	476		
Total Demand	927	0	869	58	34	56	0	408	0	0	46	0	0	13	360	0	0	0	231	141	0	0	97	0	0	0	577	2890		