Table F1. Total world delivered energy consumption by end-use sector and fuel, High Oil Price case

								Average annua percentage change
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022-2050
Residential								
Liquid fuels	9.4	9.2	9.6	10.0	10.4	10.8	11.2	0.6%
Natural gas	23.1	23.7	25.0	26.0	27.1	28.2	29.4	0.9%
Coal	3.6	3.6	3.5	3.4	3.4	3.3	3.3	-0.4%
Electricity	25.4	26.5	29.5	32.4	35.9	39.8	43.9	2.0%
Renewables	1.6	1.7	1.7	1.7	1.7	1.7	1.7	0.2%
Total	63.1	64.7	69.2	73.5	78.4	83.8	89.5	1.3%
Commercial								
Liquid fuels	3.5	3.4	3.5	3.6	3.7	3.8	3.9	0.4%
Natural gas	9.4	9.6	10.2	10.6	10.9	11.2	11.6	0.8%
Coal	1.3	1.3	1.4	1.4	1.4	1.4	1.5	0.5%
Electricity	18.4	19.3	21.0	22.4	24.1	25.7	27.3	1.4%
Renewables	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4%
Total	32.9	33.9	36.2	38.2	40.3	42.4	44.5	1.1%
Industrial	0		00.2	00.1				
Liquid fuels	62.4	63.9	66.6	70.7	74.7	78.8	82.2	1.0%
Natural gas	63.9	66.2	70.4	74.7	79.1	84.0	89.0	1.2%
Coal	62.8	62.5	62.6	62.9	63.2	64.1	65.1	0.1%
		43.1	46.0	48.7		53.4	55.5	1.0%
Electricity	41.5				51.0			2.1%
Renewables	24.1	26.6	30.0	33.4	36.5	39.6	42.5	
Total	254.6	262.3	275.7	290.4	304.6	320.0	334.3	1.0%
Transportation								0.00
Liquid fuels	109.7	113.0	113.6	113.2	113.7	115.4	117.8	0.3%
Natural gas	4.2	4.9	5.5	6.3	7.2	8.3	9.7	3.0%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	1.9	2.2	3.0	4.2	5.4	6.7	8.0	5.2%
Total	115.8	120.1	122.1	123.6	126.3	130.4	135.4	0.6%
Components of energy use								
End-use consumption								
Liquid fuels	184.9	189.6	193.2	197.5	202.4	208.8	215.0	0.5%
Natural gas	100.6	104.4	111.1	117.6	124.3	131.8	139.6	1.2%
Coal	67.7	67.4	67.5	67.7	68.0	68.8	69.8	0.1%
Electricity	87.3	91.1	99.5	107.7	116.5	125.7	134.7	1.6%
Renewables	25.9	28.5	31.9	35.3	38.5	41.6	44.5	1.9%
Total end-use consumption	466.4	481.0	503.2	525.8	549.7	576.6	603.7	0.9%
Electricity-related losses	171.4	177.3	189.6	204.0	216.0	228.7	242.0	1.2%
Discrepancy	0.0	-0.5	-0.2	0.1	0.3	0.5	0.8	17.2%
Total	637.8	657.7	692.6	729.9	766.0	805.9	846.5	1.0%
Electric power								
Liquid fuels	5.4	6.4	3.9	2.0	1.1	0.8	0.7	-7.2%
Natural gas	52.5	52.0	54.5	55.2	57.2	60.4	63.6	0.7%
Coal	98.3	94.7	95.9	101.4	102.2	101.3	101.4	0.1%
Nuclear	27.7	29.3	32.0	33.3	33.4	33.6	34.4	0.8%
Renewables	74.6	85.9	102.6	119.7	138.3	158.1	176.3	3.1%
Total	258.5	268.2	288.9	311.5	332.2	354.1	376.3	1.4%
Total energy consumption								
Liquid fuels	190.3	195.4	196.9	199.5	203.9	210.2	216.5	0.5%
Natural gas	153.3	155.4	165.7	172.9	181.7	192.3	210.5	1.0%
Coal	155.5	162.1	163.4	169.1	170.2	132.3	171.3	0.1%
Nuclear	27.7	29.3	32.0	33.3	33.4	33.6	34.4	0.8%
	۷۱.۱	23.3	J2.U	JJ.J	55.4	55.0	J4.4	0.8/

Total		637.8	657.7	692.6	729.9	766.0	805.9	846.5	1.0%
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Table F2. Delivered energy consumption in the Americas by end-use sector and fuel, High Oil Price case

Sector and fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
	2022	2025	2030	2055	2040	2045	2050	2022-2030
Residential		1.0	1.6	1.0	4.5	4.5	4 5	-0.6%
Liquid fuels	1.8	1.6	1.6	1.6	1.5	1.5	1.5	
Natural gas	6.3	6.1	6.3	6.2	6.2	6.2	6.2	0.0%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Electricity	7.5	7.5	7.8	8.1	8.4	8.7	9.1	0.7%
Renewables	0.6	0.6	0.6	0.5	0.5	0.5	0.4	-1.0%
Total	16.2	15.9	16.2	16.4	16.6	16.9	17.3	0.2%
Commercial								
Liquid fuels	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0%
Natural gas	4.3	4.3	4.5	4.6	4.5	4.5	4.5	0.2%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Electricity	6.4	6.5	6.7	7.0	7.2	7.5	7.9	0.8%
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1%
Total	12.0	11.9	12.5	12.8	13.0	13.3	13.7	0.5%
Industrial								
Liquid fuels	15.2	15.2	15.8	16.7	17.6	18.5	19.3	0.8%
Natural gas	17.6	18.4	20.0	21.3	22.6	23.8	25.2	1.3%
Coal	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.1%
Electricity	6.2	6.4	6.9	7.3	7.6	8.1	8.5	1.1%
Renewables	6.6	6.8	7.4	8.0	8.4	8.7	9.1	1.2%
Total	47.4	48.6	52.0	55.0	58.1	60.9	63.9	1.1%
Transportation								
Liquid fuels	38.6	38.0	36.7	35.2	34.5	34.5	35.2	-0.3%
Natural gas	1.4	1.6	1.8	1.9	2.1	2.2	2.4	1.9%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.1	0.2	0.5	0.9	1.3	1.6	1.8	10.8%
Total	40.1	39.8	39.0	38.1	37.8	38.2	39.4	-0.1%
Components of energy use								
End-use consumption								
Liquid fuels	56.7	55.9	55.2	54.5	54.7	55.6	57.1	0.0%
Natural gas	29.6	30.4	32.6	34.0	35.4	36.7	38.3	0.9%
Coal	1.8	1.8	1.8	1.8	1.8	1.8	1.9	0.1%
Electricity	20.3	20.5	22.0	23.3	24.5	25.8	27.3	1.1%
Renewables	7.3	7.5	8.1	8.6	9.0	9.4	9.7	1.0%
Total end-use consumption	115.7	116.1	119.7	122.3	125.5	129.4	134.3	0.5%
Electricity-related losses	37.3	36.9	37.2	39.0	40.7	42.8	45.0	0.7%
Discrepancy	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	
Total	152.6	152.8	156.7	161.2	166.0	172.0	179.1	0.6%
Electric power	152.0	152.0	150.7	101.2	100.0	172.0	175.1	
Liquid fuels	1.3	1.5	0.7	0.3	0.1	0.1	0.1	-10.8%
Natural gas	1.3	1.5	15.8	15.2	15.0	14.6	14.7	-0.3%
	9.5		2.9					-2.9%
Coal		7.8		4.1	4.4	4.5	4.1	-1.0%
Nuclear	9.4	9.3	9.5	8.7	7.6	7.2	7.0	
Renewables	21.4	24.1	30.1	34.0	38.0	42.4	46.5	2.8%
Total	57.6	57.4	59.1	62.4	65.2	68.7	72.4	0.8%
Total energy consumption								
Liquid fuels	57.6	57.2	55.8	54.6	54.6	55.4	56.9	0.0%
Natural gas	45.7	45.1	48.4	49.3	50.5	51.3	53.1	0.5%
Coal	11.3	9.6	4.8	5.9	6.3	6.4	6.0	-2.2%
Nuclear	9.4	9.3	9.5	8.7	7.6	7.2	7.0	-1.0%
Renewables	28.7	31.6	38.3	42.6	47.1	51.7	56.1	2.4%

Total	152.6	152.8	156.7	161.2	166.0	172.0	179.1	0.6%
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Table F3. Delivered energy consumption in the United States by end-use sector and fuel, High Oil Price case

2022	2025	2020	2025	2040	2045	2050	Average annual percentage change, 2022–2050
2022	2025	2030	2035	2040	2045	2050	2022–2050
		0.7	0.7	0.0	0.0	0.6	1.69/
							-1.6%
							-0.2%
							0.0%
							0.6%
							-1.1%
11.8	11.5	11.7	11.6	11.7	11.8	11.9	0.1%
							-0.2%
							0.0%
							-0.1%
	4.5	4.6	4.8	4.8	4.9	5.0	0.3%
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0%
9.2	9.1	9.3	9.4	9.4	9.5	9.6	0.1%
9.0	8.9	9.2	9.5	9.9	10.2	10.5	0.6%
10.9	11.5	12.2	12.8	13.4	13.9	14.5	1.0%
0.9	0.8	0.8	0.7	0.7	0.6	0.6	-1.3%
3.5	3.5	3.7	3.8	4.0	4.1	4.3	0.7%
2.4	2.4	2.5	2.6	2.6	2.7	2.8	0.5%
26.6	27.1	28.5	29.5	30.6	31.6	32.7	0.7%
26.6	25.9	24.5	22.9	22.0	21.7	22.0	-0.7%
1.0	1.1	1.3	1.3	1.4	1.4	1.5	1.5%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
0.1	0.1	0.4	0.7	1.0	1.2	1.3	11.6%
27.7	27.1	26.2	25.0	24.3	24.2	24.8	-0.4%
37.4	36.4	35.3	34.0	33.4	33.3	33.9	-0.3%
20.7	21.1	22.2	22.9	23.4	23.8	24.5	0.6%
0.9	0.8	0.8	0.8	0.7	0.6	0.6	-1.3%
13.3	13.3	14.1	14.8	15.4	16.0	16.7	0.8%
3.1	3.1	3.2	3.2	3.2	3.2	3.3	0.3%
							0.2%
							0.4%
							0.3%
0.1	0.1	0.1	0.1	0.1	0.0	0.0	-3.2%
							-0.9%
							-4.8%
							-0.9%
							4.2%
							0.6%
57.0	5/.1	57.4	53.1	40.5	42.3	43.3	0.0%
26.0	26.2	25.2	22.0	22.2	22.2	22.0	0.20/
							-0.3%
							0.1%
							-4.3%
81	8.2	8.0	7.3	6.4	6.2	6.2	-0.9%
	9.0 10.9 0.9 3.5 2.4 26.6 1.0 0.0 0.1 27.7 37.4 20.7 0.9	0.9 0.8 5.1 5.0 0.0 0.0 5.1 5.1 0.5 0.6 11.8 11.5 0.9 0.8 3.6 3.5 0.0 0.0 4.6 4.5 0.1 0.1 9.0 8.9 10.9 11.5 0.9 0.8 3.5 3.5 2.4 2.4 26.6 25.9 1.0 1.1 0.0 0.0 0.1 0.1 26.6 25.9 1.0 1.1 0.0 0.0 0.1 0.1 0.2 9.8 37.4 36.4 20.7 21.1 0.9 0.8 13.3 13.3 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	0.9 0.8 0.7 5.1 5.0 5.0 0.0 0.0 0.0 5.1 5.1 5.4 0.5 0.6 0.5 11.8 11.5 11.7 0.9 0.8 0.8 3.6 3.5 3.7 0.0 0.0 0.0 4.6 4.5 4.6 0.1 0.1 0.1 9.0 8.9 9.2 10.9 11.5 12.2 0.9 0.8 0.8 3.5 3.5 3.7 2.4 2.4 2.5 26.6 27.1 28.5 1.0 1.1 1.3 0.0 0.0 0.0 0.1 0.1 0.4 27.7 27.1 26.2 20.7 21.1 22.2 0.9 0.8 0.8 13.3 13.3 14.1 3.1 3.1	0.9 0.8 0.7 0.7 5.1 5.0 5.0 0.0 0.0 0.0 5.1 5.4 5.5 0.5 0.6 0.5 0.5 11.8 11.5 11.7 11.6 0.9 0.8 0.8 0.8 0.8 3.6 3.5 3.7 3.7 0.0 0.0 0.0 0.0 4.6 4.5 4.6 4.8 0.1 0.1 0.1 0.1 9.0 8.9 9.2 9.5 10.9 11.5 12.2 12.8 0.9 0.8 0.8 0.7 3.5 3.5 3.7 3.8 2.4 2.4 2.5 2.6 2.6.6 27.1 28.5 22.9 1.0 1.1 1.3 1.3 0.0 0.0 0.0 0.0 0.1 0.1 0.4 0.7	0.9 0.8 0.7 0.7 0.6 5.1 5.0 5.0 4.9 0.0 0.0 0.0 0.0 5.1 5.1 5.4 5.5 5.6 0.5 0.6 0.5 0.5 0.4 11.8 11.5 11.7 11.6 11.7 0.9 0.8 0.8 0.8 0.8 3.6 3.5 3.7 3.7 3.7 0.0 0.0 0.0 0.0 0.0 4.6 4.5 4.6 4.8 4.8 0.1 0.1 0.1 0.1 0.1 9.0 8.9 9.2 9.5 9.9 10.9 11.5 12.2 12.8 13.4 0.9 0.8 0.8 0.7 0.7 3.5 3.5 3.7 3.8 4.0 2.4 2.4 2.5 2.6 2.6 2.6.6 27.1 28.5 29.5	0.9 0.8 0.7 0.7 0.6 0.6 5.1 5.0 5.0 5.0 4.9 4.9 0.0 0.0 0.0 0.0 0.0 0.0 5.1 5.1 5.4 5.5 5.6 5.8 0.5 0.6 0.5 0.5 0.4 0.4 11.8 11.5 11.7 11.6 11.7 11.8 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.6 4.5 4.6 4.8 4.8 4.9 0.1 0.1 0.1 0.1 0.1 0.1 0.1 9.0 8.9 9.2 9.5 9.9 10.2 10.9 11.5 12.2 12.8 13.4 13.9 0.9 0.8 0.8 0.7 0.7 0.6 3.5 3.7 3.8 <td< td=""><td>0.9 0.8 0.7 0.7 0.6 0.6 0.6 5.1 5.0 5.0 5.0 4.9 4.9 0.0 0.0 0.0 0.0 0.0 0.0 5.1 5.1 5.4 5.5 5.6 5.8 6.1 0.5 0.6 0.5 0.5 0.4 0.4 0.4 11.8 11.7 11.6 11.7 11.8 11.9 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 4.5 4.6 4.8 4.8 4.9 5.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.</td></td<>	0.9 0.8 0.7 0.7 0.6 0.6 0.6 5.1 5.0 5.0 5.0 4.9 4.9 0.0 0.0 0.0 0.0 0.0 0.0 5.1 5.1 5.4 5.5 5.6 5.8 6.1 0.5 0.6 0.5 0.5 0.4 0.4 0.4 11.8 11.7 11.6 11.7 11.8 11.9 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 4.5 4.6 4.8 4.8 4.9 5.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.

Total			98.9	98.4	98.7	99.7	101.0	103.2	106.2	0.3%

Table F4. Delivered energy consumption in Canada by end-use sector and fuel, High Oil Price case

								Average annua percentage change
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022-205
Residential								
Liquid fuels	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Natural gas	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.5%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.7%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	1.3	1.3	1.3	1.4	1.4	1.5	1.5	0.6%
Commercial								
Liquid fuels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Natural gas	0.6	0.6	0.7	0.7	0.8	0.8	0.8	1.19
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.5	0.6	0.6	0.7	0.7	0.8	0.8	1.6%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.3%
Industrial								
Liquid fuels	2.2	2.3	2.4	2.6	2.8	3.1	3.3	1.5%
Natural gas	2.5	2.6	2.9	3.2	3.5	3.8	4.1	1.8%
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3%
Electricity	0.7	0.7	0.8	0.9	1.0	1.1	1.2	2.1%
Renewables	0.4	0.4	0.5	0.5	0.5	0.5	0.6	1.19
Total	6.0	6.2	6.7	7.3	8.0	8.7	9.4	1.6%
Transportation								
Liquid fuels	2.5	2.5	2.4	2.3	2.2	2.2	2.2	-0.3%
Natural gas	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.0	0.0	0.0	0.1	0.1	0.2	0.2	13.2%
Total	2.6	2.6	2.5	2.4	2.4	2.5	2.5	0.0%
Components of energy use								
End-use consumption								
Liquid fuels	4.7	4.9	4.9	5.0	5.1	5.4	5.6	0.6%
Natural gas	3.8	3.9	4.3	4.6	5.0	5.4	5.8	1.5%
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3%
Electricity	1.9	1.9	2.1	2.3	2.5	2.8	3.0	1.7%
Renewables	0.4	0.4	0.5	0.5	0.5	0.5	0.6	1.19
Total end-use consumption	11.0	11.3	11.9	12.5	13.3	14.2	15.1	1.1%
Electricity-related losses	3.8	3.5	3.9	4.2	4.5	4.8	5.3	1.2%
Discrepancy	-0.1	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	
Total	14.7	14.6	15.5	16.4	17.5	18.8	20.1	1.1%
Electric power			2010			1010		
Liquid fuels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-10.2%
Natural gas	0.6	0.6	1.0	1.2	1.3	1.3	1.3	3.2%
Coal	0.3	0.0	0.0	0.0	0.0	0.0	0.0	-100.0%
Nuclear	0.9	0.2	0.8	0.8	0.5	0.0	0.3	-3.8%
	3.9						6.7	2.0%
Renewables Total	3.9 5.7	4.0 5.5	4.2 6.0	4.5 6.5	5.2 7.0	6.0 7.7	8.4	1.4%
	5.7	5.5	0.0	0.3	7.0	1.1	0.4	1.4/
Total energy consumption	4.6	٨٥	AC	. 7	10	F 1	БЭ	0.5%
Liquid fuels		4.6	4.6	4.7 E 0	4.8	5.1	5.3	0.5%
Natural gas	4.4	4.5	5.3	5.8	6.3	6.7	7.1	
Coal	0.4	0.3	0.1	0.1	0.1	0.1	0.1	-4.19
Nuclear	0.9	0.8	0.8	0.8	0.5	0.4	0.3	-3.8%

Total		14.7	14.6	15.5	16.4	17.5	18.8	20.1	1.1%

Table F5. Delivered energy consumption in Mexico by end-use sector and fuel, High Oil Price case

Sector and fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
	2022	2025	2030	2035	2040	2045	2050	2022–2050
Residential								0.20/
Liquid fuels	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.3%
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.3	0.3	0.4	0.4	0.4	0.4	0.5	1.1%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7%
Commercial								
Liquid fuels	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.9%
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.2	0.2	0.2	0.2	0.2	0.2	0.3	1.9%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	0.2	0.2	0.3	0.3	0.3	0.3	0.4	1.6%
Industrial								
Liquid fuels	0.8	0.8	0.9	0.9	1.0	1.1	1.2	1.3%
Natural gas	1.4	1.5	1.8	1.9	2.0	2.1	2.2	1.6%
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.9%
Electricity	0.6	0.6	0.6	0.7	0.7	0.8	0.8	1.4%
Renewables	0.2	0.2	0.2	0.2	0.3	0.3	0.3	1.3%
Total	3.1	3.2	3.6	3.9	4.1	4.4	4.6	1.5%
Transportation								
Liquid fuels	2.1	2.1	2.0	2.0	2.0	2.1	2.1	0.0%
Natural gas	0.0	0.0	0.0	0.0	0.0	0.1	0.1	12.9%
Coal	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	0.1	0.1	13.7%
Total	2.1	2.1	2.0	2.1	2.1	2.2	2.3	0.3%
Components of energy use								
End-use consumption								
Liquid fuels	3.1	3.1	3.2	3.2	3.3	3.4	3.5	0.4%
Natural gas	1.4	1.6	1.8	2.0	2.1	2.2	2.4	1.7%
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.9%
Electricity	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.6%
Renewables	0.2	0.2	0.2	0.3	0.3	0.3	0.3	1.3%
Total end-use consumption	6.0	6.1	6.5	6.8	7.2	7.5	7.9	1.0%
Electricity-related losses	1.6	1.7	1.8	1.8	1.9	2.0	2.2	1.2%
Discrepancy	0.2	0.1	0.0	0.0	0.0	0.0	0.0	-5.4%
Total	7.7	7.8	8.4	8.7	9.1	9.6	10.2	1.0%
Electric power								
Liquid fuels	0.4	0.5	0.3	0.1	0.0	0.0	0.0	-18.4%
Natural gas	1.3	1.4	1.5	1.6	1.8	1.9	1.9	1.4%
Coal	0.1	0.1	0.2	0.2	0.2	0.2	0.2	4.1%
Nuclear	0.1	0.1	0.2	0.3	0.2	0.2	0.2	1.5%
Renewables	0.8	0.1	0.2	0.9	1.0	1.3	1.6	2.6%
Total	2.6	2.7	3.0	3.1	3.3	3.5	3.8	1.4%
Total energy consumption	2.0	2.1	3.0	3.1	3.3	3.3	5.0	1.476
	2.7	27	25	2.4	2.4	2.4	2.6	-0.2%
Liquid fuels	3.7	3.7	3.5	3.4	3.4	3.4	3.6	-0.2%
Natural gas	2.8	2.9	3.3	3.5	3.9	4.1	4.3	2.4%
Coal	0.2	0.2	0.3	0.3	0.3	0.3	0.3	
Nuclear	0.1	0.1	0.2	0.3	0.2	0.2	0.2	1.5%

Total	7.7	7.8	8.4	8.7	9.1	9.6	10.2	1.0%
								(

Table F6. Delivered energy consumption in Brazil by end-use sector and fuel, High Oil Price case

								Average annua percentage change
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022–2050
Residential								
Liquid fuels	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3%
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.9%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	1.0	1.0	1.0	1.1	1.1	1.2	1.2	0.8%
Commercial								
Liquid fuels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3%
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.9%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.9%
Industrial								
Liquid fuels	1.4	1.4	1.4	1.5	1.5	1.6	1.6	0.5%
Natural gas	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.9%
Coal	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.8%
Electricity	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.3%
Renewables	2.7	2.8	3.1	3.4	3.6	3.7	3.8	1.2%
Total	6.1	6.2	6.6	7.1	7.5	7.7	7.8	0.9%
Transportation								
Liquid fuels	3.6	3.6	3.6	3.7	3.7	3.7	3.8	0.1%
Natural gas	0.1	0.1	0.1	0.2	0.2	0.2	0.2	2.8%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.0	0.0	0.0	0.1	0.1	0.1	0.1	5.3%
Total	3.7	3.7	3.8	3.9	3.9	4.0	4.1	0.3%
Components of energy use								
End-use consumption								
Liquid fuels	5.3	5.3	5.4	5.5	5.6	5.7	5.7	0.2%
Natural gas	0.8	0.9	0.9	1.0	1.1	1.1	1.1	1.2%
Coal	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.8%
Electricity	2.0	2.1	2.2	2.3	2.4	2.5	2.6	0.8%
Renewables	2.7	2.8	3.2	3.5	3.7	3.8	3.8	1.2%
Total end-use consumption	11.4	11.6	12.2	12.9	13.3	13.6	13.9	0.7%
Electricity-related losses	3.6	3.9	4.0	4.2	4.3	4.5	4.6	0.9%
Discrepancy	0.0	0.1	0.1	0.1	0.1	0.1	0.1	-
Total	15.0	15.5	16.2	17.2	17.7	18.2	18.6	0.8%
Electric power								
Liquid fuels	0.1	0.2	0.1	0.0	0.0	0.0	0.0	-14.9%
Natural gas	0.5	0.7	0.9	0.7	0.6	0.5	0.5	-0.4%
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1%
Nuclear	0.1	0.1	0.2	0.2	0.2	0.2	0.2	1.0%
Renewables	4.7	4.8	4.8	5.5	5.8	6.1	6.4	1.1%
Total	5.6	5.9	6.1	6.5	6.7	6.9	7.2	0.9%
Total energy consumption								
Liquid fuels	5.5	5.6	5.5	5.6	5.7	5.8	5.8	0.2%
Natural gas	1.4	1.5	1.8	1.7	1.6	1.6	1.6	0.6%
Coal	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7%
Nuclear	0.1	0.1	0.2	0.2	0.2	0.2	0.2	1.0%
Renewables	7.4	7.6	8.0	8.9	9.5	9.9	10.3	1.2%

Total			15.0	15.5	16.2	17.2	17.7	18.2	18.6	0.8%

Table F7. Delivered energy consumption in Other Americas by end-use sector and fuel, High Oil Price case

Sector and fuel	2022	2025	2020	2025	2040	2045	2050	Average annua percentage change
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022–2050
Residential								0.49
Liquid fuels	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4%
Natural gas	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Electricity	0.8	0.7	0.8	0.8	0.9	0.9	0.9	0.8%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	1.6	1.6	1.6	1.7	1.8	1.8	1.9	0.6%
Commercial								
Liquid fuels	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7%
Natural gas	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5%
Electricity	0.5	0.6	0.6	0.7	0.8	0.9	1.0	2.3%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	0.7	0.8	0.8	0.9	1.0	1.1	1.3	2.0%
Industrial								
Liquid fuels	1.8	1.8	1.9	2.1	2.2	2.4	2.7	1.4%
Natural gas	2.0	2.1	2.4	2.6	2.8	3.1	3.4	1.8%
Coal	0.2	0.2	0.3	0.3	0.3	0.4	0.4	2.2%
Electricity	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.8%
Renewables	0.9	0.9	1.1	1.2	1.4	1.5	1.7	2.3%
Total	5.7	5.9	6.5	7.2	7.9	8.6	9.4	1.8%
Transportation								
Liquid fuels	3.8	4.0	4.2	4.4	4.6	4.9	5.1	1.0%
Natural gas	0.2	0.2	0.3	0.3	0.4	0.4	0.5	2.9%
Coal	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	0.1	0.1	15.2%
Total	4.0	4.2	4.5	4.7	5.0	5.4	5.7	1.2%
Components of energy use								
End-use consumption								
Liquid fuels	6.1	6.2	6.5	6.9	7.3	7.8	8.3	1.1%
Natural gas	2.8	3.0	3.3	3.6	3.9	4.2	4.5	1.7%
Coal	0.2	0.2	0.3	0.3	0.3	0.4	0.4	2.2%
Electricity	2.1	2.1	2.3	2.6	2.8	3.1	3.4	1.7%
Renewables	0.9	0.9	1.1	1.2	1.4	1.5	1.7	2.3%
Total end-use consumption	12.1	12.5	13.5	14.5	15.7	16.9	18.3	1.5%
Electricity-related losses	4.0	4.0	4.3	4.5	4.9	5.2	5.6	1.2%
Discrepancy	0.3	0.1	0.1	0.1	0.1	0.1	0.1	-4.7%
Total	16.4	16.6	17.9	19.2	20.6	22.2	24.0	1.4%
Electric power								
Liquid fuels	0.6	0.7	0.3	0.1	0.0	0.0	0.0	-17.5%
Natural gas	1.5	1.5	1.6	1.6	1.6	1.6	1.6	0.3%
Coal	0.2	0.2	0.4	0.9	1.3	1.6	1.6	7.7%
Nuclear	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.5%
Renewables	3.6	3.6	4.1	4.4	4.6	4.9	5.7	1.6%
Total	6.1	6.2	6.6	7.1	7.7	8.3	9.1	1.4%
Total energy consumption								
Liquid fuels	7.0	7.0	7.0	7.1	7.4	7.9	8.3	0.6%
Natural gas	4.3	4.5	4.9	5.2	5.5	5.8	6.2	1.3%
Coal	0.4	0.4	0.7	1.1	1.6	1.9	2.0	5.8%
Nuclear	0.1	0.4	0.2	0.2	0.2	0.2	0.2	0.5%
Renewables	4.5	4.6	5.2	5.6	5.9	6.5	7.3	1.7%

Total				16.4	16.6	17.9	19.2	20.6	22.2	24.0	1.4%
	-										

Table F8. Delivered energy consumption in Europe and Eurasia by end-use sector and fuel, High Oil Price case

Sector and fuel	2022	2025	2020	2025	2040	2045	3050	Average annual percentage change, 2022–2050
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022–2050
Residential								0.00
Liquid fuels	2.4	2.3	2.3	2.2	2.2	2.2	2.2	-0.4%
Natural gas	10.3	10.6	10.9	11.1	11.4	11.7	12.0	0.5%
Coal	1.0	1.0	1.0	1.0	1.0	0.9	0.9	-0.3%
Electricity	4.7	4.8	5.0	5.4	5.7	5.9	6.2	1.0%
Renewables	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.8%
Total	18.6	18.8	19.3	19.9	20.4	20.9	21.4	0.5%
Commercial								
Liquid fuels	0.8	0.7	0.7	0.7	0.7	0.7	0.7	-0.1%
Natural gas	3.1	3.2	3.3	3.5	3.7	3.8	4.0	0.9%
Coal	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.3%
Electricity	4.2	4.4	4.7	5.0	5.3	5.6	5.9	1.2%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	8.5	8.8	9.2	9.6	10.1	10.5	11.0	0.9%
Industrial								
Liquid fuels	11.8	11.7	11.7	12.1	12.7	13.5	14.2	0.7%
Natural gas	16.5	16.3	16.4	16.8	17.4	18.1	18.9	0.5%
Coal	6.2	6.2	6.3	6.6	6.9	7.2	7.6	0.7%
Electricity	7.0	7.1	7.4	7.8	8.2	8.7	9.2	1.0%
Renewables	3.1	3.0	3.1	3.2	3.3	3.4	3.5	0.5%
Total	44.5	44.3	44.9	46.3	48.5	50.9	53.5	0.7%
Transportation								
Liquid fuels	22.6	22.2	21.0	20.0	19.5	19.1	19.0	-0.6%
Natural gas	0.5	0.8	1.0	1.2	1.4	1.7	2.0	4.9%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.8	0.8	1.0	1.2	1.5	1.8	2.0	3.5%
Total	23.9	23.8	23.0	22.5	22.4	22.6	23.0	-0.1%
Components of energy use								
End-use consumption								
Liquid fuels	37.5	37.0	35.7	35.0	35.1	35.5	36.1	-0.1%
Natural gas	30.5	31.0	31.7	32.6	33.9	35.3	37.0	0.7%
Coal	7.6	7.7	7.7	8.0	8.3	8.6	8.9	0.6%
Electricity	16.8	17.0	18.0	19.3	20.8	22.0	23.3	1.2%
Renewables	3.2	3.2	3.3	3.3	3.4	3.5	3.7	0.5%
Total end-use consumption		95.8	96.3	98.2	101.4	105.0	108.9	0.5%
Electricity-related losses	34.9	36.4		39.2				0.9%
	-0.4		37.3		41.1	43.0 -0.6	44.9	0.5/0
Discrepancy	-0.4 130.0	-0.5	-0.5	-0.5 136.9	-0.6 141.9		-0.6 153.2	0.6%
Total	150.0	131.7	133.1	130.9	141.9	147.4	155.2	0.076
Electric power	0.0			0.7	0.0	0.5	0.5	-1.4%
Liquid fuels	0.8	1.1	1.1	0.7	0.6	0.5	0.5	
Natural gas	13.2	13.3	14.2	14.6	15.5	16.4	17.6	1.0%
Coal	8.9	8.5	6.9	6.8	6.6	7.5	7.5	-0.6%
Nuclear	10.4	10.6	11.1	11.3	11.2	11.0	11.1	0.2%
Renewables	18.2	19.7	21.8	24.8	27.7	29.2	31.3	1.9%
Total	51.5	53.3	55.1	58.3	61.6	64.7	67.9	1.0%
Total energy consumption								
Liquid fuels	38.0	37.7	36.4	35.4	35.4	35.7	36.3	-0.2%
Natural gas	43.7	44.3	45.9	47.2	49.4	51.8	54.6	0.8%
Coal	16.5	16.2	14.7	14.8	14.9	16.1	16.4	0.0%
Nuclear	10.4	10.6	11.1	11.3	11.2	11.0	11.1	0.2%
Renewables	21.4	22.9	25.0	28.2	31.1	32.8	34.9	1.8%

Total	130.0	131.7	133.1	136.9	141.9	147.4	153.2	0.6%
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Table F9. Delivered energy consumption in Western Europe by end-use sector and fuel, High Oil Price case

Sector and fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022–2050
Residential								4.00
Liquid fuels	1.5	1.4	1.4	1.3	1.3	1.2	1.2	-1.0%
Natural gas	5.3	5.3	5.3	5.4	5.5	5.5	5.6	0.2%
Coal	0.5	0.5	0.4	0.4	0.4	0.4	0.4	-0.6%
Electricity	3.7	3.7	3.8	4.1	4.3	4.4	4.6	0.8%
Renewables	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.8%
Total	11.1	11.0	11.1	11.3	11.6	11.7	11.9	0.3%
Commercial								
Liquid fuels	0.6	0.6	0.6	0.6	0.6	0.6	0.6	-0.2%
Natural gas	2.1	2.1	2.1	2.2	2.2	2.2	2.2	0.3%
Coal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-0.5%
Electricity	3.5	3.6	3.8	4.0	4.2	4.3	4.5	0.9%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	6.4	6.5	6.7	6.9	7.2	7.3	7.5	0.6%
Industrial								
Liquid fuels	8.0	7.8	7.7	8.0	8.3	8.7	9.2	0.5%
Natural gas	8.1	7.9	7.8	7.8	7.9	8.0	8.1	0.0%
Coal	2.8	2.7	2.6	2.7	2.7	2.8	2.8	0.1%
Electricity	4.4	4.3	4.4	4.6	4.9	5.1	5.4	0.7%
Renewables	2.8	2.7	2.8	2.9	2.9	3.0	3.1	0.4%
Total	25.9	25.5	25.5	25.9	26.7	27.6	28.6	0.3%
Transportation								
Liquid fuels	18.4	18.2	16.9	15.9	15.3	14.9	14.7	-0.8%
Natural gas	0.1	0.2	0.2	0.3	0.4	0.6	0.7	6.5%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.3	0.4	0.5	0.8	1.1	1.3	1.5	5.7%
Total	18.9	18.7	17.6	17.0	16.8	16.8	16.9	-0.4%
Components of energy use								
End-use consumption								
Liquid fuels	28.6	27.9	26.6	25.7	25.5	25.4	25.5	-0.4%
Natural gas	15.5	15.5	15.5	15.7	16.0	16.3	16.7	0.3%
Coal	3.5	3.4	3.3	3.3	3.4	3.4	3.4	0.0%
Electricity	11.9	12.0	12.6	13.5	14.4	15.2	16.0	1.1%
Renewables	2.9	2.9	3.0	3.0	3.1	3.2	3.3	0.4%
Total end-use consumption	62.3	61.7	60.9	61.2	62.3	63.4	64.9	0.1%
Electricity-related losses	21.8	23.7	25.2	26.7	28.2	29.6	30.8	1.2%
Discrepancy	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	
Total	84.2	85.3	86.1	87.8	90.4	92.9	95.6	0.5%
Electric power								
Liquid fuels	0.5	0.8	0.8	0.6	0.5	0.5	0.5	-0.6%
Natural gas	5.0	5.6	6.9	6.6	6.5	6.4	6.4	0.9%
Coal	5.0	4.7	3.3	3.4	3.2	4.1	4.1	-0.7%
Nuclear	7.6	7.6	7.8	7.8	7.7	7.5	7.5	0.0%
Renewables	15.5	16.9	18.9	21.7	24.7	26.2	28.2	2.2%
Total	33.6	35.6	37.7	40.1	24.7 42.5	44.7	46.7	1.2%
Total energy consumption	55.0	33.0	31.1	4U.1	42.3		-10./	1.2/6
	20.2	ד סך	27 4	26.4	25.0	25.0	26.0	-0.4%
Liquid fuels	29.2	28.7	27.4	26.4	25.9	25.9	26.0	
Natural gas	20.5	21.1	22.4	22.3	22.5	22.7	23.1	0.4%
Coal	8.5	8.1	6.7	6.7	6.6	7.5	7.5	-0.4%
Nuclear	7.6	7.6	7.8	7.8	7.7	7.5	7.5	0.0%

Total	84.2	85.3	86.1	87.8	90.4	92.9	95.6	0.5%
	((

Table F10. Delivered energy consumption in Russia by end-use sector and fuel, High Oil Price case

								Average annua percentage change
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022-2050
Residential								
Liquid fuels	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4%
Natural gas	3.7	3.8	4.1	4.2	4.4	4.6	4.7	0.9%
Coal	0.3	0.3	0.3	0.2	0.2	0.2	0.2	-0.9%
Electricity	0.6	0.6	0.7	0.8	0.8	0.9	0.9	1.4%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	5.2	5.4	5.7	5.9	6.1	6.4	6.6	0.8%
Commercial								
Liquid fuels	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1%
Natural gas	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.8%
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-1.3%
Electricity	0.6	0.6	0.6	0.7	0.7	0.8	0.8	1.2%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Total	1.3	1.3	1.4	1.4	1.5	1.6	1.6	0.8%
Industrial								
Liquid fuels	3.2	3.3	3.3	3.4	3.6	3.9	4.2	1.0%
Natural gas	7.1	7.0	7.1	7.4	7.8	8.3	8.8	0.7%
Coal	2.5	2.6	2.6	2.7	2.8	2.9	3.0	0.6%
Electricity	1.9	2.0	2.0	2.1	2.2	2.4	2.5	0.8%
Renewables	0.2	0.3	0.3	0.3	0.3	0.3	0.3	1.0%
Total	15.1	15.1	15.3	15.9	16.8	17.8	18.8	0.8%
Transportation		_						
Liquid fuels	3.1	2.9	2.9	2.9	2.9	2.8	2.7	-0.4%
Natural gas	0.2	0.3	0.3	0.3	0.3	0.4	0.4	1.6%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-0.7%
Total	3.6	3.6	3.6	3.5	3.5	3.4	3.4	-0.3%
Components of energy use								
End-use consumption								
Liquid fuels	7.0	7.0	7.0	7.1	7.3	7.6	7.8	0.4%
Natural gas	11.6	11.7	12.1	12.6	13.2	13.8	14.6	0.8%
Coal	2.9	2.9	3.0	3.0	3.1	3.2	3.3	0.5%
Electricity	3.5	3.5	3.7	3.8	4.0	4.3	4.4	0.9%
Renewables	0.2	0.3	0.3	0.3	0.3	0.3	0.3	1.0%
Total end-use consumption	25.2	25.4	26.0	26.8	27.9	29.2	30.4	0.7%
Electricity-related losses	8.8	8.8	8.3	8.6	8.7	8.8	9.0	0.1%
Discrepancy	-0.5	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	
Total	33.5	33.6	33.7	34.8	36.0	37.4	38.8	0.5%
Electric power								
Liquid fuels	0.2	0.3	0.2	0.1	0.1	0.0	0.0	-6.8%
Natural gas	5.9	5.6	5.5	6.1	6.6	7.1	7.5	0.8%
Coal	1.9	2.1	1.8	1.5	1.5	1.5	1.5	-0.8%
Nuclear	2.3	2.4	2.5	2.5	2.5	2.5	2.4	0.2%
Renewables	1.9	1.9	1.9	2.5	1.9	1.9	1.9	0.0%
Total	12.3	12.2	11.9	12.3	12.6	13.0	13.4	0.3%
Total energy consumption	12.3	12.2	11.3	12.3	12.0	13.0	13.4	5.57
Liquid fuels	6.7	6.8	6.7	6.7	6.8	7.1	7.3	0.3%
Natural gas	17.6	17.3	17.6	18.7	19.8	20.9	22.1	0.37
Coal	4.8	5.0	4.7	4.6	4.6	4.7	4.8	0.8%
Nuclear								0.0%
	2.3	2.4	2.5	2.5	2.5	2.5	2.4	0.27

Total	33.5	33.6	33.7	34.8	36.0	37.4	38.8	0.5%

Table F11. Delivered energy consumption in Eastern Europe and Eurasia by end-use sector and fuel, High Oil Price case

2022	2025	2020	2025	2040	2045	2050	Average annual percentage change, 2022–2050
2022	2025	2030	2035	2040	2045	2050	2022–2050
							4.00
							1.0%
							0.5%
							0.5%
							2.0%
							0.8%
2.3	2.4	2.5	2.6	2.7	2.8	2.9	0.9%
							0.8%
							2.9%
0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0%
0.2	0.2	0.3	0.3	0.4	0.5	0.6	4.1%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
0.8	0.9	1.0	1.2	1.4	1.6	1.9	3.0%
0.6	0.6	0.7	0.7	0.7	0.8	0.9	1.3%
1.2	1.4	1.5	1.5	1.7	1.8	2.0	1.7%
0.9	1.0	1.1	1.2	1.4	1.5	1.8	2.4%
0.7	0.8	0.9	1.0	1.1	1.3	1.4	2.6%
0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6%
3.5	3.8	4.1	4.5	4.9	5.5	6.1	2.0%
1.1	1.1	1.2	1.2	1.3	1.4	1.6	1.4%
0.2	0.4	0.5	0.6	0.7	0.8	0.9	6.1%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
0.1	0.1	0.1	0.1	0.2	0.2	0.2	2.0%
1.4	1.6	1.8	1.9	2.2	2.4	2.7	2.5%
1.9	2.0	2.1	2.2	2.4	2.6	2.8	1.3%
3.3	3.8	4.1	4.4	4.7	5.2	5.7	1.9%
1.3	1.3	1.5	1.6	1.8	2.0	2.2	2.0%
1.4	1.5	1.8	2.0	2.3	2.6	2.9	2.6%
0.0	0.0	0.0	0.0			0.1	0.6%
							1.9%
							0.6%
							1.7%
							1.5%
0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.8%
							1.6%
							-0.1%
							3.3%
							1.2%
							1.2%
5.0	5.4	5.5	J. ð	0.4	7.0	7.9	1.270
	2.2	2.2	2.4	2.0	2.0	2.0	4.00
							1.3%
							1.8%
							0.8%
0.5	0.6	0.8	1.1	1.1	1.1	1.2	3.3%
	0.0 0.8 0.6 1.2 0.9 0.7 0.0 3.5 1.1 0.2 0.0 0.1 1.4 1.9 3.3 1.3	0.2 0.2 1.4 1.5 0.3 0.3 0.4 0.4 0.0 0.0 2.3 2.4 0.1 0.1 0.5 0.6 0.1 0.1 0.2 0.2 0.0 0.0 0.1 0.1 0.2 0.2 0.0 0.0 0.8 0.9 0.6 0.6 1.2 1.4 0.9 1.0 0.7 0.8 0.0 0.0 0.7 0.8 0.0 0.0 0.1 0.1 0.2 0.4 0.0 0.0 0.1 0.1 1.4 1.6 1.3 1.3 1.3 1.3 1.4 1.5 0.0 0.0 2.3 2.1 2.0 1.8 0.5	0.2 0.2 0.2 1.4 1.5 1.5 0.3 0.3 0.3 0.4 0.4 0.5 0.0 0.0 0.0 2.3 2.4 2.5 0.1 0.1 0.1 0.5 0.6 0.6 0.1 0.1 0.1 0.2 0.2 0.3 0.0 0.0 0.0 0.2 0.2 0.3 0.0 0.0 0.0 0.6 0.6 0.7 1.2 1.4 1.5 0.9 1.0 1.1 0.7 0.8 0.9 0.0 0.0 0.0 3.5 3.8 4.1 1.1 1.1 1.2 0.2 0.4 0.5 0.0 0.0 0.0 0.1 0.1 0.1 1.3 1.3 1.5 1.4 1.6 1.8	0.2 0.2 0.2 0.2 1.4 1.5 1.5 1.5 0.3 0.3 0.3 0.3 0.4 0.4 0.5 0.5 0.0 0.0 0.0 0.0 2.3 2.4 2.5 2.6 0.1 0.1 0.1 0.1 0.5 0.6 0.6 0.7 0.1 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.0 0.0 0.0 0.0 0.6 0.6 0.7 0.7 1.2 1.4 1.5 1.5 0.9 1.0 1.1 1.2 0.6 0.6 0.7 0.7 1.2 1.4 1.5 1.5 0.9 1.0 1.1 1.2 0.7 0.8 0.9 1.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0.2 0.2 0.2 0.2 0.2 0.2 1.4 1.5 1.5 1.5 1.5 1.6 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.5 0.6 0.7 0.0 0.0 0.0 0.0 0.0 2.3 2.4 2.5 2.6 2.7 2.8 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.5 0.6 0.6 0.7 0.8 1.0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.4 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.8 0.9 1.0 1.2 1.4 1.6 0.6 0.6 0.7 0.7 0.7 0.8 1.2 1.4 1.5 1.5 1.7 1.8 0.7	0.2 0.2 0.2 0.2 0.2 0.3 1.4 1.5 1.5 1.5 1.6 1.6 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.5 0.5 0.6 0.7 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.3 2.4 2.5 2.6 2.7 2.8 2.9 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.5 0.6 0.6 0.7 0.8 1.0 1.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.3 0.4 0.5 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.8 0.9 1.0 1.1 1.2 1.4 1.5 1.8 0.7 0.7 0.7 0.7

Total			12.3	12.7	13.3	14.2	15.5	17.0	18.8	1.5%
	-									

Table F12. Delivered energy consumption in Asia Pacific by end-use sector and fuel, High Oil Price case

Castor and first	2022	2025	2020	2025	20.40	20.45	3050	Average annual percentage change,
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022–2050
Residential								4.50
Liquid fuels	4.3	4.5	4.9	5.4	5.8	6.2	6.6	1.5%
Natural gas	4.0	4.3	4.9	5.5	6.1	6.8	7.4	2.3%
Coal	2.5	2.4	2.3	2.3	2.3	2.2	2.2	-0.5%
Electricity	10.2	11.1	13.1	15.0	17.5	20.4	23.3	3.0%
Renewables	0.9	0.9	0.9	1.0	1.0	1.1	1.1	0.8%
Total	21.9	23.2	26.2	29.1	32.7	36.7	40.6	2.2%
Commercial								
Liquid fuels	1.5	1.5	1.6	1.7	1.8	1.8	1.9	0.8%
Natural gas	1.3	1.4	1.6	1.7	1.9	2.0	2.1	1.7%
Coal	0.8	0.8	0.9	0.9	0.9	1.0	1.0	0.8%
Electricity	6.0	6.5	7.4	8.0	8.9	9.8	10.6	2.1%
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8%
Total	9.7	10.3	11.6	12.4	13.6	14.7	15.7	1.7%
Industrial								
Liquid fuels	28.0	29.3	31.2	33.4	35.1	37.0	38.3	1.1%
Natural gas	16.1	17.1	19.0	20.7	22.3	23.9	25.4	1.6%
Coal	52.7	52.2	51.8	51.4	50.9	50.8	50.8	-0.1%
Electricity	26.6	27.9	29.9	31.7	33.0	34.3	35.3	1.0%
Renewables	11.0	13.0	14.9	16.9	18.7	20.5	22.1	2.5%
Total	134.5	139.6	146.9	154.1	160.0	166.5	171.8	0.9%
Transportation								
Liquid fuels	35.8	39.1	41.5	42.8	43.6	44.5	45.3	0.8%
Natural gas	1.8	2.0	2.2	2.6	3.1	3.7	4.5	3.4%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	1.0	1.2	1.5	1.9	2.5	3.1	3.7	4.7%
Total	38.6	42.3	45.2	47.3	49.1	51.3	53.4	1.2%
Components of energy use								
End-use consumption								
Liquid fuels	69.6	74.4	79.2	83.2	86.2	89.6	92.0	1.0%
Natural gas	23.1	24.8	27.7	30.6	33.3	36.4	39.5	1.9%
Coal	56.0	55.4	55.0	54.6	54.1	54.0	54.0	-0.1%
Electricity	43.8	46.7	52.0	56.6	61.8	67.6	72.8	1.8%
Renewables	12.0	14.0	16.0	18.0	19.9	21.6	23.3	2.4%
Total end-use consumption	204.7	215.3	229.9	243.0	255.4	269.3	281.6	1.1%
Electricity-related losses	86.8	90.2	100.9	110.8	118.5	126.2	133.9	1.6%
Discrepancy	1.1	0.7	0.9	1.2	1.5	1.8	2.0	2.1%
Total	292.6	306.2	331.7	355.0	375.3	397.3	417.6	1.3%
Electric power	292.0	300.2	551.7	333.0	375.5	397.3	417.0	1.5/0
Liquid fuels	0.7	0.0	0.4	0.2	0.1	0.1	0.1	-7.6%
· · · · · · · · · · · · · · · · · · ·	12.1	0.8	0.4	0.2	0.1	0.1 14.4	0.1 15.4	0.9%
Natural gas		12.5	12.3	12.0	12.5			0.9%
Coal	77.6	76.3	83.7	88.0	88.3	86.6	86.9	
Nuclear	7.6	8.7	10.5	12.0	13.2	14.0	14.9	2.4%
Renewables	32.7	38.7	45.9	55.1	66.2	78.8	89.4	3.7%
Total	130.7	136.9	152.9	167.4	180.3	193.8	206.7	1.7%
Total energy consumption				. .				
Liquid fuels	71.4	75.8	80.5	84.6	87.8	91.4	94.1	1.0%
Natural gas	35.2	37.2	40.0	42.6	45.8	50.8	54.8	1.6%
Coal	133.7	131.7	138.8	142.6	142.5	140.7	141.0	0.2%
Nuclear	7.6	8.7	10.5	12.0	13.2	14.0	14.9	2.4%
Renewables	44.7	52.7	61.9	73.2	86.1	100.5	112.7	

Total	292.6	306.2	331.7	355.0	375.3	397.3	417.6	1.3%
			6					1 2222)

Table F13. Delivered energy consumption in Japan by end-use sector and fuel, High Oil Price case

								Average annua percentage change
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022-205
Residential								
Liquid fuels	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.29
Natural gas	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	1.8	1.8	1.9	1.8	1.8	1.8	1.9	0.19
Commercial								
Liquid fuels	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.29
Natural gas	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.7%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4%
Electricity	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	1.9	2.0	2.0	2.0	1.9	2.0	2.0	0.1%
Industrial								
Liquid fuels	2.7	2.6	2.4	2.3	2.2	2.1	2.0	-1.19
Natural gas	0.7	0.7	0.7	0.7	0.6	0.6	0.6	-0.5%
Coal	1.7	1.6	1.5	1.4	1.2	1.1	1.0	-1.89
Electricity	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.0%
Renewables	0.5	0.5	0.4	0.4	0.4	0.4	0.3	-1.39
Total	6.4	6.3	6.0	5.7	5.4	5.2	5.1	-0.8%
Transportation								
Liquid fuels	3.0	3.0	2.7	2.5	2.4	2.2	2.1	-1.39
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.1	11.49
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%
Total	3.1	3.1	2.9	2.6	2.5	2.4	2.3	-1.19
Components of energy use								
End-use consumption								
Liquid fuels	6.5	6.4	5.9	5.6	5.3	5.1	4.8	-1.09
Natural gas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.29
Coal	1.7	1.6	1.5	1.4	1.2	1.1	1.0	-1.89
Electricity	3.1	3.2	3.3	3.2	3.3	3.3	3.4	0.3%
Renewables	0.5	0.5	0.5	0.4	0.4	0.4	0.4	-1.29
Total end-use consumption	13.3	13.2	12.7	12.1	11.7	11.4	11.1	-0.6%
Electricity-related losses	5.2	5.3	4.4	4.5	4.5	4.6	4.7	-0.39
Discrepancy	0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-
Total	18.5	18.3	16.9	16.4	16.1	15.8	15.7	-0.6%
Electric power								
Liquid fuels	0.1	0.2	0.1	0.1	0.0	0.0	0.0	-4.29
Natural gas	2.7	2.7	2.5	2.2	2.0	2.1	2.0	-1.19
Coal	2.7	2.7	1.6	1.7	1.7	1.7	1.7	-1.6%
Nuclear	0.8	1.2	1.5	1.5	1.3	1.1	1.1	1.0%
Renewables	1.9	1.7	2.0	2.2	2.7	3.0	3.2	1.9%
Total	8.2	8.5	7.7	7.7	7.8	7.9	8.0	-0.19
Total energy consumption	0.2						0.0	
Liquid fuels	6.8	6.4	5.9	5.5	5.2	5.0	4.7	-1.39
Natural gas	4.2	4.3	4.0	3.7	3.5	3.6	3.6	-1.3/
Coal	4.2	4.3	3.1	3.1	3.0	2.9	2.7	-0.07 -1.69
Nuclear	0.8	4.3 1.2	1.5	1.5	1.3	1.1	1.1	1.09
Renewables	2.4	1.2	т. Ј	2.6	3.1	3.3	3.5	1.07

Total			18.5	18.3	16.9	16.4	16.1	15.8	15.7	-0.6%
	-									

Table F14. Delivered energy consumption in South Korea by end-use sector and fuel, High Oil Price case

Join Join <thjoin< th=""> Join Join <thj< th=""><th>Average annua centage change</th><th>р</th><th>2050</th><th>2045</th><th>2040</th><th>2035</th><th>2030</th><th>2025</th><th>2022</th><th>Sector and fuel</th></thj<></thjoin<>	Average annua centage change	р	2050	2045	2040	2035	2030	2025	2022	Sector and fuel
Liquid fuels0.10.10.10.10.10.10.1Natural gas0.50.50.50.50.50.50.5Coal0.00.00.00.00.00.00.00.0Electricity0.30.30.30.30.30.30.30.3Renewables0.00.00.00.00.00.00.00.0Commercial0.10.10.10.10.10.10.10.1Natural gas0.20.20.20.20.20.20.2Coal0.00.00.00.00.00.00.00.0Electricity0.60.60.60.70.70.70.7Renewables0.00.00.00.00.00.00.00.0Industrial1.21.11.2<	2022–2050		2050	2045	2040	2035	2030	2025	2022	
Natural gas0.50.50.50.50.50.50.5Coal0.00.00.00.00.00.00.00.0Total0.80.00.00.00.00.00.00.0Total0.10.10.10.10.10.10.10.1Commercial0.00.00.00.00.00.00.00.0Coal0.00.00.00.00.00.00.00.0Coal0.00.00.00.00.00.00.00.0Coal0.00.00.00.00.00.00.00.0Coal0.00.00.00.00.00.00.00.0Coal0.00.00.00.00.00.00.00.0Total0.90.90.90.90.90.91.01.0Indication2.82.72.93.03.03.13.13.1Indication1.1<	0.20			~ ~ ~		~ .	~ ~ ~			
Coal0.00.00.00.00.00.00.0Electridy0.30.30.30.30.30.30.3Total0.80.90.90.90.90.90.9Connercial0.10.10.10.10.10.10.1Natural gas0.20.20.20.20.20.20.20.2Coal0.00.00.00.00.00.00.00.00.0Total0.00.00.00.00.00.00.00.0Total0.90.90.90.90.00.00.00.0Total0.00.00.00.00.00.00.00.0Total0.10.11.1 <td< td=""><td>0.3%</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	0.3%									
Electricity 0.3 0.3 0.3 0.3 0.3 0.3 0.3 Renewables 0.0 0.0 0.0 0.0 0.0 0.0 Total 0.8 0.9 0.9 0.9 0.9 0.9 0.9 Liquid fuels 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Matural gas 0.2 0.2 0.2 0.2 0.2 0.2 0.2 Coal 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Electricity 0.6 0.6 0.6 0.0 0.0 0.0 Total 0.9 0.9 0.9 0.9 0.9 0.0 0.0 Total 0.6 0.6 0.6 0.6 0.6 0.6 0.6 Coal 0.6 0.6 0.6 0.6 0.6 0.6 0.6 Coal 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Industrial 1.1 1.1 1.1 1.1 1.1 1.1 1.1 Renewables 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Coal 0.1 0.	0.5%									
Renewables 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total 0.8 0.9 0.9 0.9 0.9 0.9 0.9 Commercial U 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Natural gas 0.2 0.2 0.2 0.2 0.2 0.2 0.2 Coal 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Editricity 0.6 0.6 0.6 0.7 0.7 0.7 Renewables 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Industrial I I 1.1 1.2 1.2 1.2 1.2 Industrial 1.1 <	-0.5%									
Total 0.8 0.9 0.9 0.9 0.9 0.9 1.0 Commercial U 0.1 0.0 0.	0.8%									
Commercial U.i.u.i.d. 0.1 0.1	-1.8%									
Liquid fuels 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Natural gas 0.2 0.2 0.2 0.2 0.2 0.2 Coal 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Renewables 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total 0.9 0.9 0.9 0.9 0.0 0.0 0.0 Industrial 1.1 </td <td>0.5%</td> <td></td> <td>1.0</td> <td>0.9</td> <td>0.9</td> <td>0.9</td> <td>0.9</td> <td>0.9</td> <td>0.8</td> <td></td>	0.5%		1.0	0.9	0.9	0.9	0.9	0.9	0.8	
Natural gas 0.2 0.2 0.2 0.2 0.2 0.2 0.2 Coal 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Electricity 0.6 0.6 0.7 0.7 0.7 Renewables 0.0 0.0 0.0 0.0 0.0 0.0 Total 0.9 0.9 0.9 0.9 0.9 0.0 0.0 Industrial 1.1 <td></td>										
Coal 0.0 0.0 0.0 0.0 0.0 0.0 Electricity 0.6 0.6 0.6 0.7 0.7 0.7 Renewables 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Industrial 1.0 1.0 Industrial 1.2 1.2 1.2 1.2 1.2 Electricity 1.1	-0.6%									Liquid fuels
Electricity 0.6 0.6 0.7 0.7 0.7 0.7 Renewables 0.0 0.0 0.0 0.0 0.0 0.0 Total 0.9 0.9 0.9 0.9 0.9 0.9 0.0 Industrial 2.8 2.7 2.9 3.0 3.0 3.1 3.1 Natural gas 0.6 0.6 0.6 0.6 0.6 0.6 0.6 Coal 1.2 1.1 <td>0.5%</td> <td></td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>Natural gas</td>	0.5%		0.2	0.2	0.2	0.2	0.2	0.2	0.2	Natural gas
Renewables 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total 0.9 0.9 0.9 0.9 0.9 0.0 0.0 Industrial	0.0%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	Coal
Total0.90.90.90.90.91.0IndustrialLiquid fuels2.82.72.93.03.03.13.1Natural gas0.60.60.60.60.60.6Coal1.21.11.21.21.21.21.2Electricity1.11.11.11.11.11.11.1Total5.75.96.06.16.16.2Tensyotation7.75.96.06.16.16.2Natural gas0.00.10.10.10.10.1Coal0.00.00.00.00.00.00.0Coal0.00.00.00.00.00.00.0Coal0.00.00.00.00.00.00.0Coal0.00.00.00.00.00.00.0Coal1.21.11.21.21.21.21.2Endusc consumption1.21.11.21.21.21.21.2Liquid fuels5.05.05.05.05.05.03.33.31.31.41.4Coal1.21.11.21.	0.5%		0.7	0.7	0.7	0.7	0.6	0.6	0.6	Electricity
Industrial Liquid fuels 2.8 2.7 2.9 3.0 3.0 3.1 3.1 Natural gas 0.6 0.6 0.6 0.6 0.6 0.6 0.6 Coal 1.2 1.1	-0.4%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	Renewables
Liquid fuels 2.8 2.7 2.9 3.0 3.0 3.1 3.1 Natural gas 0.6 0.6 0.6 0.6 0.6 0.6 Coal 1.2 1.1 1.2 1.2 1.2 1.2 Electricity 1.1 1.1 1.1 1.1 1.1 1.1 1.1 Total 5.7 5.9 6.0 6.1 6.1 6.2 Transportation 7 5.7 5.9 6.0 6.1 6.1 6.2 Valuad fuels 2.0 2.0 1.8 1.7 1.6 1.5 Natural gas 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Coal 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Coal 0.0 0.	0.4%		1.0	1.0	0.9	0.9	0.9	0.9	0.9	Total
Natural gas 0.6 0.6 0.6 0.6 0.6 0.6 Coal 1.2 1.1 1.2 1.2 1.2 1.2 1.2 Electricity 1.1										Industrial
Coal 1.2 1.1 1.2 1.2 1.2 1.2 1.2 Electricity 1.1 1.1 1.1 1.1 1.1 1.1 1.1 Renewables 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Total 5.7 5.9 6.0 6.1 6.2 7 Tansportation 1.1 0.1	0.3%		3.1	3.1	3.0	3.0	2.9	2.7	2.8	Liquid fuels
Electricity 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 Renewables 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Total 5.7 5.9 6.0 6.1 6.1 6.2 Transportation 0.1 0.1 0.1 0.1 0.1 0.1 Natural gas 0.0	0.2%		0.6	0.6	0.6	0.6	0.6	0.6	0.6	Natural gas
Renewables 0.1 0.1 0.1 0.1 0.1 0.1 Total 5.7 5.7 5.9 6.0 6.1 6.1 6.2 Transportation U U 0.1 0.1 0.1 0.1 0.1 6.0 Natural gas 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Cola 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 0.1 0.1 0.1 0.1 Total 2.1 2.1 2.1 2.0 1.9 1.8 1.7 Components of energy use End-use consumption 1.3 1.3 1.3 1.3 1.3 1.4 1.4 1.4 Coal 1.2 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	0.2%		1.2	1.2	1.2	1.2	1.2	1.1	1.2	Coal
Total5.75.75.96.06.16.16.2TransportationLiquid fuels2.02.01.81.71.61.5Natural gas0.00.10.10.10.10.1Coal0.00.00.00.00.00.0Electricity0.00.00.00.00.0Total2.12.12.12.01.91.8Total5.05.05.15.04.94.84.7Natural gas1.31.31.41.41.41.4Coal0.10.10.10.10.11.41.4Idquid fuels5.05.05.15.04.94.84.7Natural gas1.31.31.41.41.41.4Coal1.21.11.21.21.21.21.2Electricity2.02.02.12.12.12.12.1Electricity2.02.03.13.13.11.41.4Total end-use consumption9.59.69.79.89.89.89.8Electricity-related losses3.23.43.63.83.94.04.1Discrepancy0.20.30.30.30.30.30.30.30.3Coal1.41.31.41.51.61.61.61.6Nuclear2.02.3 <td< td=""><td>0.3%</td><td></td><td>1.1</td><td>1.1</td><td>1.1</td><td>1.1</td><td>1.1</td><td>1.1</td><td>1.1</td><td>Electricity</td></td<>	0.3%		1.1	1.1	1.1	1.1	1.1	1.1	1.1	Electricity
TransportationLiquid fuels2.02.01.81.71.61.5Natural gas0.00.10.10.10.10.1Coal0.00.00.00.00.00.0Electricity0.00.00.00.10.10.1Total2.12.12.01.91.81.7Components of energy use0.05.05.15.04.94.84.7Idiud fuels5.05.05.15.04.94.84.7Natural gas1.31.31.31.31.41.41.4Coal1.21.11.21.21.21.21.2Electricity2.02.02.12.12.22.32.3Renewables0.10.10.10.10.10.1Total end-use consumption9.59.69.79.89.89.8Electricity-related losses3.23.43.63.83.94.04.1Discrepancy0.20.30.30.30.30.30.30.3Total end-use consumption1.31.21.11.01.00.90.9Coal1.31.21.11.00.00.00.00.0Total end-use consumption9.59.60.30.30.30.30.30.3Coal1.31.21.11.01.00.9<	-0.2%		0.1	0.1	0.1	0.1	0.1	0.1	0.1	Renewables
Liquid fuels2.02.01.81.71.61.5Natural gas0.00.10.10.10.10.10.1Coal0.00.00.00.00.00.00.0Electricity0.00.00.00.10.10.10.1Total2.12.12.12.01.91.81.7Components of energy useE5.05.15.04.94.84.7Natural gas1.31.31.31.41.41.4Coal1.21.11.21.21.21.2Electricity2.02.02.12.12.32.3Renewables0.10.10.10.10.10.1Total end-use consumption9.59.69.79.89.89.8Electricity-related losses3.23.43.63.83.94.04.1Discregancy0.20.30.30.30.30.30.30.3Total1.31.31.31.41.4.114.214.2Electricity-related losses3.23.43.63.83.94.04.1Discregancy0.20.30.30.30.30.30.30.3Total1.31.31.41.41.4.21.41.4.2Electricity-related losses3.23.43.63.83.94.04.1 <t< td=""><td>0.3%</td><td></td><td>6.2</td><td>6.1</td><td>6.1</td><td>6.0</td><td>5.9</td><td>5.7</td><td>5.7</td><td>Total</td></t<>	0.3%		6.2	6.1	6.1	6.0	5.9	5.7	5.7	Total
Natural gas0.00.10.10.10.10.10.1Coal0.00.00.00.00.00.00.00.0Electricity0.00.00.00.10.10.10.1Total2.12.12.01.91.81.7Components of energy use5.05.15.04.94.84.7End-use consumption1.31.31.31.41.41.4Coal1.21.11.21.21.21.21.2Electricity2.02.02.12.12.12.32.3Renewables0.10.10.10.10.10.1Total end-use consumption9.59.69.79.89.89.8Electricity-related losses3.23.43.63.30.30.30.3Total end-use consumption9.59.69.79.89.89.89.8Electricity-related losses3.23.43.63.83.94.04.1Discrepancy0.20.30.30.30.30.30.30.3Total13.013.313.713.914.114.214.2Electric power11.01.01.00.90.9Coal1.41.31.41.51.61.61.6Nuclear0.00.00.00.00.00.00.01.4<										Transportation
Coal 0.0 0.0 0.0 0.0 0.0 0.0 Electricity 0.0 0.0 0.0 0.1 0.1 0.1 Total 2.1 2.1 2.1 2.0 1.9 1.8 1.7 Components of energy use End-use consumption End-use consumption End 2.1 2.0 4.9 4.8 4.7 Natural gas 1.3 1.3 1.3 1.4 1.4 1.4 Coal 1.2 1.1 1.2 <td>-1.1%</td> <td></td> <td>1.5</td> <td>1.6</td> <td>1.7</td> <td>1.8</td> <td>2.0</td> <td>2.0</td> <td>2.0</td> <td>Liquid fuels</td>	-1.1%		1.5	1.6	1.7	1.8	2.0	2.0	2.0	Liquid fuels
Electricity0.00.00.00.10.10.10.1Total2.12.12.01.91.81.7Components of energy useEnd-use consumptionLiquid fuels5.05.05.15.04.94.84.7Natural gas1.31.31.31.41.41.4Coal1.21.11.21.21.21.21.2Electricity2.02.02.12.12.12.12.1Electricity2.02.02.12.12.12.12.1Electricity-related losses3.23.43.63.83.94.04.1Discrepancy0.20.30.30.30.30.30.30.3Total1.31.41.41.41.41.4Discrepancy0.20.30.30.30.30.30.3Total1.31.41.41.41.41.41.4Discrepancy0.20.30.30.30.30.30.3Coal1.11.31.41.51.61.61.6Nuclear2.02.32.42.42.32.3Renewables0.50.50.70.91.11.41.5Total5.25.45.75.96.16.26.3Total energy consumption	1.9%		0.1	0.1	0.1	0.1	0.1	0.1	0.0	Natural gas
Total 2.1 2.1 2.0 1.9 1.8 1.7 Components of energy use End-use consumption End-use consumption End-use consumption 5.0 5.1 5.0 4.9 4.8 4.7 Natural gas 1.3 1.3 1.3 1.4 1.4 1.4 Coal 1.2 1.1 1.2 1.2 1.2 1.2 1.2 Electricity 2.0 2.0 2.1 2.1 2.2 2.3 2.3 Renewables 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Discrepancy 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 Idquid fuels 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Idquid fuels 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 <td>0.0%</td> <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>Coal</td>	0.0%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	Coal
Components of energy use End-use consumption Liquid fuels 5.0 5.0 5.1 5.0 4.9 4.8 4.7 Natural gas 1.3 1.3 1.3 1.3 1.4 1.4 1.4 Coal 1.2 1.1 1.2 1.2 1.2 1.2 1.2 Electricity 2.0 2.0 2.1 2.1 2.2 2.3 2.3 Renewables 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Total end-use consumption 9.5 9.6 9.7 9.8 9.8 9.8 9.8 Electricity-related losses 3.2 3.4 3.6 3.8 3.9 4.0 4.1 Discrepancy 0.2 0.3 0.3 0.3 0.3 0.3 0.3 Total 13.0 13.3 13.7 13.9 14.1 14.2 Electricity-related losses 1.3 1.2 1.1 1.0 <t< td=""><td>6.5%</td><td></td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.0</td><td>0.0</td><td>0.0</td><td>Electricity</td></t<>	6.5%		0.1	0.1	0.1	0.1	0.0	0.0	0.0	Electricity
End-use consumption Liquid fuels 5.0 5.0 5.1 5.0 4.9 4.8 4.7 Natural gas 1.3 1.3 1.3 1.3 1.4 1.4 1.4 Coal 1.2 1.1 1.2 1.2 1.2 1.2 1.2 1.2 Electricity 2.0 2.0 2.1 2.1 2.2 2.3 2.3 Renewables 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Total end-use consumption 9.5 9.6 9.7 9.8 9.8 9.8 9.8 Electricity-related losses 3.2 3.4 3.6 3.8 3.9 4.0 4.1 Discrepancy 0.2 0.3 0.3 0.3 0.3 0.3 0.3 Total 13.0 13.3 13.7 13.9 14.1 14.1 14.2 Electric power 1.3 1.4 1.5 1.6 1.6 1.6 Nuclear 2.0 2.3 2.4 2.4 2.3 2.3 2.3	-0.7%		1.7	1.8	1.9	2.0	2.1	2.1	2.1	
End-use consumption Liquid fuels 5.0 5.0 5.1 5.0 4.9 4.8 4.7 Natural gas 1.3 1.3 1.3 1.3 1.4 1.4 1.4 Coal 1.2 1.1 1.2 1.2 1.2 1.2 1.2 1.2 Electricity 2.0 2.0 2.1 2.1 2.2 2.3 2.3 Renewables 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Total end-use consumption 9.5 9.6 9.7 9.8 9.8 9.8 9.8 Electricity-related losses 3.2 3.4 3.6 3.8 3.9 4.0 4.1 Discrepancy 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 Total 13.0 13.3 13.7 13.9 14.1 14.1 14.2 Electric power 1.3 1.4 1.5 1.6 1.6 1.6 Nuclear 2.0 2.3 2.4 2.4 2.3 2.3										Components of energy use
Liquid fuels5.05.05.15.04.94.84.7Natural gas1.31.31.31.31.41.41.4Coal1.21.11.21.21.21.21.2Electricity2.02.02.12.12.22.32.3Renewables0.10.10.10.10.10.10.1Total end-use consumption9.59.69.79.89.89.8Electricity-related losses3.23.43.63.83.94.04.1Discrepancy0.20.30.30.30.30.30.3Total13.013.313.713.914.114.2Electric power0.00.00.00.0Natural gas1.31.21.11.01.00.9Coal1.41.31.41.51.61.6Nuclear2.02.32.42.42.32.3Renewables0.50.50.70.91.11.41.5Total5.25.45.75.96.16.26.3										
Natural gas 1.3 1.3 1.3 1.4 1.4 1.4 Coal 1.2 1.1 1.2 1.2 1.2 1.2 1.2 1.2 Electricity 2.0 2.0 2.1 2.1 2.2 2.3 2.3 Renewables 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Total end-use consumption 9.5 9.6 9.7 9.8 9.8 9.8 9.8 Electricity-related losses 3.2 3.4 3.6 3.8 3.9 4.0 4.1 Discrepancy 0.2 0.3 0.3 0.3 0.3 0.3 0.3 Total 1.3 1.3 1.4 1.4 14.1 14.2 Electricity-related losses 3.2 3.4 3.6 3.8 3.9 4.0 4.1 Discrepancy 0.2 0.3 13.3 13.7 13.9 14.1 14.2 Electricity power 1.3 1	-0.2%		4.7	4.8	4.9	5.0	5.1	5.0	5.0	•
Coal1.21.11.21.21.21.21.21.2Electricity2.02.02.12.12.22.32.3Renewables0.10.10.10.10.10.10.1Total end-use consumption9.59.69.79.89.89.89.8Electricity-related losses3.23.43.63.83.94.04.1Discrepancy0.20.30.30.30.30.30.3Total13.013.313.713.914.114.114.2Electric power0.00.00.00.00.0Natural gas1.31.21.11.01.00.90.9Coal1.41.31.41.51.61.61.6Nuclear2.02.32.42.42.32.3Total5.25.45.75.96.16.26.3Total energy consumption5.25.45.75.96.16.26.3	0.4%									
Electricity2.02.02.12.12.22.32.3Renewables0.10.10.10.10.10.10.10.1Total end-use consumption9.59.69.79.89.89.89.8Electricity-related losses3.23.43.63.83.94.04.1Discrepancy0.20.30.30.30.30.30.3Total13.013.313.713.914.114.114.2Electric power0.00.00.00.00.0Natural gas1.31.21.11.01.00.90.9Coal1.41.31.41.51.61.61.6Nuclear2.02.32.42.42.32.32.3Total5.25.45.75.96.16.26.3Total energy consumption5.25.45.75.96.16.26.3	0.2%									
Renewables 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Total end-use consumption 9.5 9.6 9.7 9.8 9.8 9.8 9.8 Electricity-related losses 3.2 3.4 3.6 3.8 3.9 4.0 4.1 Discrepancy 0.2 0.3 0.3 0.3 0.3 0.3 0.3 Total 13.0 13.3 13.7 13.9 14.1 14.1 14.2 Electric power U U 0.0 0.0 0.0 0.0 0.0 0.0 Natural gas 1.3 1.2 1.1 1.0 1.0 0.9 0.9 Coal 1.4 1.3 1.4 1.5 1.6 1.6 1.6 Nuclear 0.5 0.5 0.7 0.9 1.1 1.4 1.5 Total 5.2 5.4 5.7 5.9 6.1 6.2 6.3	0.6%									
Total end-use consumption9.59.69.79.89.89.89.8Electricity-related losses3.23.43.63.83.94.04.1Discrepancy0.20.30.30.30.30.30.3Total13.013.313.713.914.114.114.2Electric power0.00.00.00.00.00.0Natural gas1.31.21.11.01.00.90.9Coal1.41.31.41.51.61.61.6Nuclear2.02.32.42.42.32.3Renewables0.50.50.70.91.11.41.5Total5.25.45.75.96.16.26.3	-0.3%									· · · · · · · · · · · · · · · · · · ·
Electricity-related losses 3.2 3.4 3.6 3.8 3.9 4.0 4.1 Discrepancy 0.2 0.3 0.4 0.4 <td< td=""><td>0.1%</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	0.1%									
Discrepancy 0.2 0.3 0.3 0.3 0.3 0.3 Total 13.0 13.3 13.7 13.9 14.1 14.1 14.2 Electric power 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Natural gas 1.3 1.2 1.1 1.0 1.0 0.9 0.9 Coal 1.4 1.3 1.4 1.5 1.6 1.6 1.6 Nuclear 2.0 2.3 2.4 2.4 2.3 2.3 Total 5.2 5.4 5.7 5.9 6.1 6.2 6.3	0.8%									•
Total13.013.313.713.914.114.114.2Electric powerLiquid fuels0.00.00.00.00.00.0Natural gas1.31.21.11.01.00.90.9Coal1.41.31.41.51.61.61.6Nuclear2.02.32.42.42.32.3Renewables0.50.50.70.91.11.41.5Total5.25.45.75.96.16.26.3Total energy consumption	1.1%									
Electric power Liquid fuels 0.0 <td>0.3%</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	0.3%									
Liquid fuels0.00.00.00.00.00.00.0Natural gas1.31.21.11.01.00.90.9Coal1.41.31.41.51.61.61.6Nuclear2.02.32.42.42.32.3Renewables0.50.50.70.91.11.41.5Total5.25.45.75.96.16.26.3			14.2	14.1	14.1	13.5	15.7	13.5	15.0	
Natural gas 1.3 1.2 1.1 1.0 1.0 0.9 0.9 Coal 1.4 1.3 1.4 1.5 1.6 1.6 1.6 Nuclear 2.0 2.3 2.4 2.4 2.3 2.3 Renewables 0.5 0.5 0.7 0.9 1.1 1.4 1.5 Total 5.2 5.4 5.7 5.9 6.1 6.2 6.3	0.5%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	•
Coal 1.4 1.3 1.4 1.5 1.6 1.6 1.6 Nuclear 2.0 2.3 2.4 2.4 2.4 2.3 2.3 Renewables 0.5 0.5 0.7 0.9 1.1 1.4 1.5 Total 5.2 5.4 5.7 5.9 6.1 6.2 6.3	-1.1%									· · · · · · · · · · · · · · · · · · ·
Nuclear 2.0 2.3 2.4 2.4 2.4 2.3 2.3 Renewables 0.5 0.5 0.7 0.9 1.1 1.4 1.5 Total 5.2 5.4 5.7 5.9 6.1 6.2 6.3 Total energy consumption Units Units <thunits< th=""> <thunits< th=""> <thunits< <="" td=""><td>0.4%</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thunits<></thunits<></thunits<>	0.4%									
Renewables 0.5 0.5 0.7 0.9 1.1 1.4 1.5 Total 5.2 5.4 5.7 5.9 6.1 6.2 6.3 Total energy consumption Vertical energy consumption	0.5%									
Total 5.2 5.4 5.7 5.9 6.1 6.2 6.3 Total energy consumption										
Total energy consumption	4.3%									
	0.7%		b.3	b.Z	6.1	5.9	5./	5.4	5.2	
Liquia rueis 5.3 5.4 5.4 5.4 5.3 5.2 5.1	• • • •							- /		
	-0.1%									
Natural gas 2.6 2.5 2.4 2.3 2.3 2.4	-0.3%									
Coal 2.6 2.5 2.6 2.7 2.8 2.8 2.8	0.3%									
Nuclear 2.0 2.3 2.4 2.4 2.3 2.3	0.5%									
Renewables 0.6 0.6 0.8 1.0 1.3 1.5 1.7	3.6%		1.7	1.5	1.3	1.0	0.8	0.6	0.6	Renewables

Total			13.0	13.3	13.7	13.9	14.1	14.1	14.2	0.3%
	-									

Table F15. Delivered energy consumption in Australia and New Zealand by end-use sector and fuel, High Oil Price case

2022	2025	2020	2025	2040	2045	2050	percentage change
2022	2025	2030	2035	2040	2045	2050	2022–2050
							0.20
							-0.3%
							0.9%
							-4.9%
							0.3%
							0.8%
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6%
							0.4%
0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
0.3	0.3	0.4	0.4	0.4	0.5	0.5	1.7%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
0.4	0.4	0.5	0.5	0.6	0.6	0.6	1.5%
0.8	0.8	0.8	0.8	0.9	0.9	1.0	0.9%
1.1	1.1	1.1	1.2	1.2	1.3	1.4	0.9%
0.2	0.2	0.3	0.3	0.3	0.3	0.3	1.2%
0.3	0.4	0.4	0.5	0.5	0.5	0.6	1.8%
0.2	0.2	0.3	0.3	0.3	0.3	0.3	1.4%
2.6	2.7	2.9	3.0	3.2	3.4	3.6	1.1%
1.7	1.9	1.9	1.9	1.8	1.8	1.9	0.3%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
0.0	0.1	0.1	0.1	0.1	0.1	0.1	3.9%
1.7	2.0	2.0	2.0	1.9	2.0	2.0	0.5%
2.5	2.7	2.8	2.8	2.8	2.8	2.9	0.5%
							1.0%
							1.2%
							1.5%
							1.3%
							0.9%
							1.2%
							0.9%
7.2	7.2	7.0	0.0	0.5	0.7	5.2	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	-7.3%
							-1.4%
							0.4%
							0.0%
							2.7%
2.8	2.8	3.1	3.4	3.6	3.8	4.1	1.3%
	<u> </u>					a =	
							0.2%
							0.5%
							0.5%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
	0.3 0.0 0.4 0.8 1.1 0.2 0.3 0.2 2.6 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 0.2 0.2 0.0 0.0 0.3 0.3 0.0 0.0 0.5 0.5 0.0 0.0 0.1 0.1 0.0 0.0 0.3 0.3 0.0 0.0 0.3 0.3 0.0 0.0 0.3 0.3 0.0 0.0 0.4 0.4 0.2 0.2 0.3 0.4 0.2 0.2 0.3 0.4 0.2 0.2 0.3 0.4 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 1.7 1.9 0.0 0.0 0.0 0.0 0.1 1.0 0.2 0.3 5.2 5.5 1.9	0.0 0.0 0.0 0.2 0.2 0.2 0.0 0.0 0.0 0.3 0.3 0.3 0.0 0.0 0.0 0.5 0.5 0.5 0.0 0.0 0.0 0.1 0.1 0.1 0.0 0.0 0.0 0.3 0.3 0.4 0.0 0.0 0.0 0.3 0.3 0.4 0.0 0.0 0.0 0.4 0.4 0.5 0.8 0.8 0.8 1.1 1.1 1.1 0.2 0.2 0.3 0.3 0.4 0.4 0.2 0.2 0.3 0.3 0.4 0.4 0.2 0.2 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.5 0.5 0.5 0.5 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.3 0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.4 0.4 0.5 0.5 0.8 0.8 0.8 0.8 1.1 1.1 1.1 1.2 0.2 0.2 0.3 0.3 0.2 0.2 0.3 0.3 0.2 0.2 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.5 0.5 0.5 0.5 0.5 0.0 0.0 0.0 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 0.3 0.3 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.1 1.1 1.1 1.1 1.2 1.2 0.2 0.2 0.3 0.3 0.3 0.3 0.2 0.2	0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.4 0.4 0.4 0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.5 0.5 0.6 0.6 0.8 0.8 0.8 0.8 0.9 0.9 1.1 1.1 1.1 1.2 1.2 1.3 0.2 0.2 0.3 0.3 0.3 0.3 0.2	0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 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 0.3 0.3 0.4 0.4 0.4 0.4 0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.5 0.5 0.5 0.6 0.2 0.2

Total	7.2	7.2	7.6	8.0	8.3	8.7	9.2	0.9%

Table F16. Delivered energy consumption in China by end-use sector and fuel, High Oil Price case

								Average annua percentage change
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022-2050
Residential								
Liquid fuels	1.8	1.9	2.0	2.3	2.4	2.7	2.8	1.7%
Natural gas	2.3	2.6	3.1	3.7	4.2	4.8	5.4	3.0%
Coal	2.3	2.2	2.1	2.1	2.0	2.0	1.9	-0.6%
Electricity	5.0	5.5	6.7	7.7	9.0	10.4	11.8	3.1%
Renewables	0.8	0.8	0.9	0.9	0.9	1.0	1.0	0.8%
Total	12.2	13.0	14.8	16.5	18.6	20.8	22.9	2.3%
Commercial								
Liquid fuels	0.6	0.6	0.7	0.7	0.8	0.8	0.8	1.0%
Natural gas	0.6	0.7	0.8	0.8	0.9	1.0	1.1	2.2%
Coal	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-0.5%
Electricity	2.0	2.2	2.6	2.8	3.2	3.6	3.8	2.4%
Renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8%
Total	3.8	4.1	4.6	5.0	5.5	5.9	6.3	1.8%
Industrial								
Liquid fuels	14.5	15.5	16.1	16.8	17.1	17.2	16.9	0.6%
Natural gas	7.4	7.7	8.0	8.2	8.2	8.4	8.4	0.4%
Coal	39.1	38.0	35.4	32.6	29.7	27.3	24.8	-1.6%
Electricity	19.2	20.0	20.6	21.1	21.1	21.1	20.8	0.3%
Renewables	3.3	4.7	4.8	4.9	4.9	4.8	4.6	1.2%
Total	83.5	86.0	84.9	83.6	81.0	78.7	75.5	-0.4%
Transportation								
Liquid fuels	13.6	14.9	15.2	14.4	13.1	12.2	11.6	-0.6%
Natural gas	1.4	1.5	1.5	1.7	1.8	2.1	2.3	1.9%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.7	0.8	1.1	1.3	1.6	1.8	1.9	3.7%
Total	15.7	17.2	17.8	17.4	16.5	16.1	15.9	0.0%
Components of energy use								
End-use consumption								
Liquid fuels	30.5	32.9	33.9	34.1	33.4	32.9	32.2	0.2%
Natural gas	11.7	12.4	13.4	14.4	15.2	16.2	17.1	1.4%
Coal	42.0	40.7	38.0	35.2	32.2	29.7	27.2	-1.5%
Electricity	26.9	28.6	31.0	32.9	34.9	36.9	38.3	1.3%
Renewables	4.2	5.7	5.8	5.9	5.9	5.9	5.8	1.1%
Total end-use consumption	115.2	120.2	122.1	122.4	121.6	121.6	120.6	0.2%
Electricity-related losses	57.1	58.0	62.6	66.6	69.3	71.2	73.4	0.9%
Discrepancy	0.2	0.3	0.4	0.5	0.5	0.6	0.7	4.7%
Total	172.4	178.6	185.1	189.5	191.4	193.4	194.6	0.4%
Electric power								
Liquid fuels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-11.0%
Natural gas	2.7	2.9	3.0	3.7	4.9	6.7	7.8	3.9%
Coal	54.9	53.5	55.4	56.9	54.9	51.6	51.9	-0.2%
Nuclear	4.0	4.4	5.7	7.1	8.4	9.5	10.4	3.5%
Renewables	22.4	26.0	29.6	31.9	36.2	40.5	41.7	2.2%
Total	84.1	86.7	93.6	99.6	104.3	108.3	111.8	1.0%
Total energy consumption	-	-			-		-	
Liquid fuels	30.6	33.1	34.2	34.4	33.7	33.3	32.7	0.2%
Natural gas	14.4	15.3	16.4	18.1	20.1	23.0	24.9	2.0%
Coal	96.9	94.1	93.5	92.0	87.0	81.3	79.1	-0.7%
Nuclear	4.0	4.4	5.7	7.1	8.4	9.5	10.4	3.5%
Renewables	26.6	31.6	35.3	37.8	42.1	46.4	47.4	2.1%

Total	172.4	178.6	185.1	189.5	191.4	193.4	194.6	0.4%
Determined II.C. Frank Information Administra			6		22 004 257	date de la companya		

Table F17. Delivered energy consumption in India by end-use sector and fuel, High Oil Price case

Sactor and fuel	2022	2025	2020	2025	2040	2045	2050	Average annual percentage change, 2022–2050
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022–2050
Residential								2.00/
Liquid fuels	1.3	1.4	1.5	1.7	1.9	2.1	2.3	2.0%
Natural gas	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.8%
Coal	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.6%
Electricity	1.5	1.7	2.2	2.8	3.7	4.8	5.9	5.1%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8%
Total	3.0	3.3	4.0	4.8	5.9	7.2	8.5	3.8%
Commercial								
Liquid fuels	0.1	0.1	0.1	0.1	0.2	0.2	0.2	2.9%
Natural gas	0.1	0.1	0.1	0.1	0.2	0.2	0.2	2.8%
Coal	0.2	0.3	0.3	0.4	0.4	0.5	0.5	2.7%
Electricity	0.4	0.5	0.7	0.9	1.1	1.3	1.5	4.6%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	0.9	1.0	1.3	1.5	1.8	2.1	2.5	3.8%
Industrial								
Liquid fuels	3.8	4.0	4.9	6.0	7.1	8.4	9.7	3.4%
Natural gas	1.8	2.0	3.0	4.0	4.9	5.9	6.9	4.8%
Coal	6.1	6.4	8.0	9.9	11.7	13.6	15.6	3.4%
Electricity	3.1	3.4	4.2	5.1	5.9	6.8	7.8	3.4%
Renewables	3.9	4.2	5.4	6.8	8.1	9.4	10.7	3.7%
Total	18.6	20.0	25.6	31.7	37.8	44.1	50.7	3.6%
Transportation								
Liquid fuels	4.8	5.3	6.6	8.2	9.7	11.2	12.3	3.4%
Natural gas	0.2	0.2	0.3	0.5	0.7	0.8	1.0	6.7%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.1	0.1	0.2	0.2	0.3	0.5	0.6	5.6%
Total	5.1	5.7	7.1	8.9	10.7	12.5	14.0	3.7%
Components of energy use		•		0.0		0	2.00	
End-use consumption								
Liquid fuels	9.9	10.8	13.2	16.0	18.9	21.8	24.4	3.3%
Natural gas	2.2	2.4	3.5	4.7	5.8	7.0	8.3	4.9%
Coal	6.4	6.8	8.5	10.4	12.3	14.3	16.3	3.4%
Electricity	5.1	5.7	7.3	9.0	11.0	13.4	15.9	4.1%
Renewables	3.1	4.2			8.1	9.4	10.8	3.7%
			5.5	6.8				3.7%
Total end-use consumption	27.5	29.9	38.0	46.9	56.2	65.9	75.6	3.8%
Electricity-related losses	10.5	12.1	16.4	20.0	23.1	27.0	30.3	
Discrepancy	0.2	0.7	0.9	1.1	1.3	1.5	1.7	7.3%
Total	38.3	42.7	55.2	68.0	80.6	94.3	107.6	3.8%
Electric power								
Liquid fuels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-14.3%
Natural gas	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.7%
Coal	11.2	11.8	15.5	15.9	16.5	16.0	14.7	1.0%
Nuclear	0.5	0.5	0.6	0.7	0.7	0.7	0.7	1.6%
Renewables	3.5	5.0	7.0	11.7	16.2	23.0	30.0	8.0%
Total	15.6	17.7	23.6	28.9	34.0	40.2	46.0	3.9%
Total energy consumption								
Liquid fuels	10.3	11.6	14.2	17.2	20.4	23.5	26.3	3.4%
Natural gas	2.6	2.9	4.0	5.2	6.3	7.5	8.7	4.4%
Coal	17.6	18.6	24.0	26.3	28.8	30.2	31.0	2.0%
Nuclear	0.5	0.5	0.6	0.7	0.7	0.7	0.7	1.6%
Renewables	7.4	9.2	12.4	18.5	24.4	32.4	40.8	6.3%

Total	38.3	42.7	55.2	68.0	80.6	94.3	107.6	3.8%
	(

Table F18. Delivered energy consumption in Other Asia Pacific by end-use sector and fuel, High Oil Price case

	2025	2020	2025	2040	2045	3050	percentage change,
2022	2025	2030	2035	2040	2045	2050	2022–2050
							0.00
							0.8%
							1.4%
							0.3%
							2.1%
							0.8%
3.6	3.8	4.2	4.5	4.9	5.4	5.8	1.7%
							1.0%
0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.4%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
1.5	1.6	1.9	2.1	2.4	2.6	2.9	2.5%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
1.8	2.0	2.3	2.5	2.8	3.1	3.4	2.2%
3.5	3.7	4.1	4.6	4.9	5.3	5.6	1.7%
4.5	4.9	5.6	6.2	6.6	7.2	7.6	1.9%
4.5	4.8	5.4	6.1	6.7	7.3	7.8	2.0%
2.1	2.2	2.6	2.9	3.3	3.6	3.9	2.3%
3.0	3.3	3.9	4.5	5.0	5.5	5.9	2.5%
17.6	18.9	21.6	24.2	26.6	29.0	30.9	2.0%
10.7	12.0	13.0	14.0	14.8	15.5	15.9	1.4%
0.2	0.2	0.3	0.4	0.5	0.7	1.0	5.9%
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
0.0	0.0	0.0	0.1	0.2	0.5	0.7	16.1%
10.9	12.2	13.4	14.4	15.6	16.7	17.6	1.7%
15.3	16.7	18.3	19.7	21.0	22.2	22.9	1.5%
5.3	5.8	6.6	7.2	7.9	8.7	9.4	2.1%
4.6	4.9	5.5	6.2	6.8	7.4	7.9	2.0%
5.8	6.2	7.2	8.1	9.2	10.3	11.5	2.5%
3.0	3.3	3.9	4.5	5.0	5.5	6.0	2.5%
33.9	36.8	41.5	45.7	49.9	54.1	57.7	1.9%
9.0	9.5	11.9	13.8	15.3	17.0	18.8	2.7%
							2.1%
0.4	0.5	0.2	0.1	0.1	0.0	0.0	-14.5%
							-0.6%
							3.4%
							-0.5%
							4.3%
							2.6%
14.0	13./	13.2	21.3	24.3	27.4	30.4	2.0/6
16.0	16.0	10.0	10 F	20.7	21.0	22.5	1 20/
							1.2%
							1.1%
							2.9%
0.4 6.3	0.4 7.5	0.4 9.2	0.4 11.3	0.4	0.4	0.4	-0.5%
	1.5 0.0 1.8 3.5 4.5 4.5 2.1 3.0 17.6 10.7 0.2 0.0 0.0 10.9 10.9 15.3 5.3 4.6 5.8 3.0 33.9 9.0 0.3 43.2 0.4 4.5 6.1 0.4 4.5 6.1 0.4 3.3 14.8 16.0 9.8 10.7 0.4	0.5 0.5 0.1 0.1 2.2 2.4 0.0 0.0 3.6 3.8 0.3 0.3 0.1 0.1 0.0 0.0 1.5 1.6 0.0 0.0 1.5 1.6 0.0 0.0 1.5 1.6 0.0 0.0 1.5 1.6 0.0 0.0 1.5 1.8 2.1 2.2 3.0 3.3 17.6 18.9 10.7 12.0 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.9 12.2 15.3 16.7 5.8 6.2 3.0 3.3 3.3 3.3 3.3 9.0 9.5 0.3 0.	0.5 0.5 0.6 0.1 0.1 0.1 2.2 2.4 2.7 0.0 0.0 0.0 3.6 3.8 4.2 0.3 0.3 0.3 0.1 0.1 0.1 0.0 0.0 0.0 1.5 1.6 1.9 0.0 0.0 0.0 1.5 1.6 1.9 0.0 0.0 0.0 1.5 1.6 1.9 0.0 0.0 0.0 1.5 1.6 1.9 0.0 0.0 0.0 1.5 3.7 4.1 4.5 4.9 5.6 4.5 4.8 5.4 2.1 2.2 2.6 3.0 3.3 3.9 17.6 18.9 21.6 10.7 12.0 13.0 0.0 0.0 0.0 10.7 12.0 13.0<	0.5 0.5 0.6 0.6 0.1 0.1 0.1 0.1 2.2 2.4 2.7 2.9 0.0 0.0 0.0 0.0 3.6 3.8 4.2 4.5 0.3 0.3 0.3 0.3 0.3 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 1.5 1.6 1.9 2.1 0.0 0.0 0.0 0.0 0.0 1.5 1.6 1.9 2.1 0.0 0.0 0.0 0.0 0.0 0.0 1.5 1.6 1.9 2.1 0.2 3.5 3.7 4.1 4.6 4.1 2.1 2.2 2.6 2.9 3.0 3.0 3.3 3.9 4.5 4.6 0.1 10.7 12.0 13.0 14.0 0.2 0.2	0.5 0.5 0.6 0.6 0.7 0.1 0.1 0.1 0.1 0.1 2.2 2.4 2.7 2.9 3.3 0.0 0.0 0.0 0.0 0.0 3.6 3.8 4.2 4.5 4.9 0.3 0.3 0.3 0.3 0.3 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 1.5 1.6 1.9 2.1 2.4 0.0 0.0 0.0 0.0 0.0 1.5 1.6 1.9 2.1 2.4 0.0 0.0 0.0 0.0 0.0 1.5 3.5 3.7 4.1 4.6 4.9 4.5 4.8 5.4 6.1 6.7 2.1 2.2 2.6 2.9 3.3 3.0 3.3 3.9 4.5	0.5 0.5 0.6 0.6 0.7 0.7 0.1 0.1 0.1 0.1 0.1 0.1 2.2 2.4 2.7 2.9 3.3 3.6 0.0 0.0 0.0 0.0 0.0 0.0 3.6 3.8 4.2 4.5 4.9 5.4 0.3 0.3 0.3 0.3 0.3 0.4 0.1 0.1 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 0.0 0.0 1.5 1.6 1.9 2.1 2.4 2.6 2.8 3.1 .5 3.7 4.1 4.6 4.9 5.3 3.6 3.0 3.3 3.9 4.5 5.0 5.5 5.5 17.6 18.9 21.6 24.2 26.6 29.0 </td <td>0.5 0.5 0.6 0.7 0.7 0.8 0.1 0.1 0.1 0.1 0.1 0.1 0.1 2.2 2.4 2.7 2.9 3.3 3.6 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.6 3.8 4.2 4.5 4.9 5.4 5.8 0.3 0.3 0.3 0.3 0.4 0.4 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.5 1.6 1.9 2.1 2.4 2.6 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 2.0 2.3 2.5 2.8 3.1 3.4 3.5 3.7 4.1 4.6 4.9 5.5 5.9 1.76 1.8 2.4</td>	0.5 0.5 0.6 0.7 0.7 0.8 0.1 0.1 0.1 0.1 0.1 0.1 0.1 2.2 2.4 2.7 2.9 3.3 3.6 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.6 3.8 4.2 4.5 4.9 5.4 5.8 0.3 0.3 0.3 0.3 0.4 0.4 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.5 1.6 1.9 2.1 2.4 2.6 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 2.0 2.3 2.5 2.8 3.1 3.4 3.5 3.7 4.1 4.6 4.9 5.5 5.9 1.76 1.8 2.4

Total	43.2	46.1	53.2	59.3	64.9	70.9	76.3	2.1%

Table F19. Delivered energy consumption in Africa and Middle East by end-use sector and fuel, High Oil Price case

Contour and freel	2022	2025	2020	2025	2040	2045	2050	Average annua percentage change
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022–205
Residential								0.40
Liquid fuels	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.4%
Natural gas	2.5	2.7	3.0	3.2	3.4	3.6	3.8	1.4%
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6%
Electricity	2.9	3.1	3.5	3.9	4.3	4.8	5.3	2.1%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	6.4	6.8	7.4	8.1	8.7	9.4	10.1	1.7%
Commercial								
Liquid fuels	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0%
Natural gas	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.3%
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4%
Electricity	1.8	2.0	2.1	2.4	2.6	2.8	3.0	1.8%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	2.6	2.8	3.0	3.4	3.6	3.8	4.0	1.6%
Industrial								
Liquid fuels	7.3	7.6	7.9	8.6	9.3	9.9	10.4	1.3%
Natural gas	13.8	14.4	14.9	15.9	16.9	18.2	19.4	1.2%
Coal	2.1	2.3	2.7	3.1	3.6	4.2	4.9	3.0%
Electricity	1.6	1.7	1.9	2.0	2.2	2.4	2.6	1.6%
Renewables	3.4	3.8	4.5	5.3	6.1	7.0	7.8	3.0%
Total	28.3	29.8	31.9	34.9	38.1	41.6	45.1	1.7%
Transportation								
Liquid fuels	12.8	13.7	14.4	15.2	16.1	17.2	18.4	1.3%
Natural gas	0.5	0.5	0.5	0.5	0.6	0.7	0.8	2.1%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.0	0.0	0.1	0.1	0.2	0.3	0.4	9.1%
Total	13.3	14.2	15.0	15.8	16.9	18.2	19.7	1.4%
Components of energy use								
End-use consumption								
Liquid fuels	21.1	22.2	23.2	24.7	26.4	28.1	29.8	1.2%
Natural gas	17.4	18.3	19.1	20.4	21.7	23.3	24.9	1.3%
Coal	2.3	2.5	2.9	3.3	3.8	4.4	5.1	2.9%
Electricity	6.4	6.9	7.6	8.5	9.4	10.3	11.2	2.1%
Renewables	3.4	3.8	4.5	5.3	6.2	7.0	7.8	3.0%
Total end-use consumption	50.6	53.7	57.3	62.2	67.4	73.1	78.9	1.6%
Electricity-related losses	12.4	13.7	14.3	15.0	15.8	16.7	18.1	1.4%
Discrepancy	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-
Total	62.5	67.0	71.1	76.8	82.7	89.3	96.6	1.6%
Electric power								
Liquid fuels	2.7	3.1	1.6	0.7	0.3	0.1	0.0	-15.2%
Natural gas	11.1	11.5	12.3	13.4	14.2	15.0	15.9	1.3%
Coal	2.2	2.0	2.2	2.6	2.8	2.7	2.9	0.9%
Nuclear	0.4	0.6	0.9	1.2	1.4	1.4	1.4	4.9%
Renewables	2.3	3.4	4.8	5.7	6.4	7.7	9.2	5.0%
Total	18.7	20.6	4.8 21.8	23.5	25.1	26.9	9.2 29.3	1.6%
	10.7	20.0	21.0	23.3	23.1	20.3	23.3	1.0/
Total energy consumption	12.2	247	24.2	24.0	26 1	דדנ	20.2	0.8%
Liquid fuels	23.3	24.7	24.2	24.9	26.1	27.7	29.3	
Natural gas	28.6	29.9	31.5	33.9	36.0	38.5	40.9	1.3%
Coal	4.6	4.5	5.1	5.9	6.6	7.1	8.0	2.0%
Nuclear	0.4	0.6	0.9	1.2	1.4	1.4	1.4	4.9%

Total	62.5	67.0	71.1	76.8	82.7	89.3	96.6	1.6%
	(

Table F20. Delivered energy consumption in Africa by end-use sector and fuel, High Oil Price case

								Average annual percentage change,
Sector and fuel	2022	2025	2030	2035	2040	2045	2050	2022-2050
Residential								
Liquid fuels	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.8%
Natural gas	0.6	0.6	0.7	0.8	0.9	1.1	1.2	2.8%
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6%
Electricity	0.9	1.1	1.3	1.7	2.0	2.3	2.7	3.8%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	2.1	2.4	2.7	3.2	3.7	4.1	4.7	2.8%
Commercial								
Liquid fuels	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4%
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3%
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4%
Electricity	0.5	0.5	0.6	0.7	0.7	0.8	0.9	2.1%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	0.6	0.6	0.7	0.8	0.9	1.0	1.0	1.9%
Industrial								
Liquid fuels	1.5	1.6	1.7	2.0	2.2	2.5	2.7	2.0%
Natural gas	2.4	2.5	2.8	3.1	3.4	3.7	4.0	1.8%
Coal	1.9	2.1	2.4	2.8	3.3	3.9	4.6	3.3%
Electricity	1.1	1.1	1.3	1.4	1.6	1.8	1.9	2.1%
Renewables	3.4	3.8	4.5	5.3	6.1	7.0	7.8	3.0%
Total	10.3	11.1	12.8	14.6	16.6	18.8	21.0	2.6%
Transportation								
Liquid fuels	5.5	6.0	6.6	7.3	8.1	9.1	10.2	2.2%
Natural gas	0.1	0.1	0.2	0.2	0.3	0.3	0.4	4.5%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.0	0.0	0.0	0.1	0.1	0.1	0.2	6.1%
Total	5.7	6.2	6.8	7.6	8.5	9.6	10.8	2.3%
Components of energy use								
End-use consumption								
Liquid fuels	7.6	8.2	9.0	9.9	11.0	12.3	13.7	2.1%
Natural gas	3.1	3.3	3.7	4.2	4.6	5.1	5.6	2.1%
Coal	2.0	2.3	2.6	3.0	3.5	4.1	4.8	3.1%
Electricity	2.5	2.8	3.2	3.8	4.4	5.0	5.7	2.9%
Renewables	3.4	3.8	4.5	5.3	6.1	7.0	7.8	3.0%
Total end-use consumption	18.7	20.3	23.0	26.2	29.7	33.5	37.5	2.5%
Electricity-related losses	5.4	5.6	6.3	7.0	7.7	8.5	9.8	2.2%
Discrepancy	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.9%
Total	24.3	26.1	29.5	33.5	37.7	42.3	47.7	2.4%
Electric power								
Liquid fuels	0.4	0.4	0.2	0.0	0.0	0.0	0.0	-16.5%
Natural gas	3.1	3.1	3.2	3.6	3.9	4.2	4.5	1.3%
Coal	2.2	2.0	2.2	2.6	2.8	2.7	2.9	0.9%
Nuclear	0.1	0.1	0.3	0.4	0.5	0.5	0.5	5.2%
Renewables	2.0	2.6	3.5	4.2	4.9	6.1	7.5	4.9%
Total	7.9	8.3	9.4	10.8	12.1	13.5	15.5	2.4%
Total energy consumption				_,,,,				
Liquid fuels	8.3	8.9	9.4	10.2	11.3	12.6	14.0	1.9%
Natural gas	6.2	6.4	7.0	7.7	8.5	9.3	10.2	1.8%
Coal	4.3	4.3	4.8	5.6	6.3	6.8	7.7	2.1%
Nuclear	0.1	4.3 0.1	0.3	0.4	0.5	0.5	0.5	5.2%
Renewables	5.3	6.4	8.0	9.5	11.0	13.1	15.3	3.8%

Total			24.3	26.1	29.5	33.5	37.7	42.3	47.7	2.4%

Table F21. Delivered energy consumption in Middle East by end-use sector and fuel, High Oil Price case

Sector and fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
	2022	2025	2030	2035	2040	2045	2050	2022–2050
Residential								0.49/
Liquid fuels	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-0.4%
Natural gas	2.0	2.1	2.2	2.3	2.4	2.5	2.6	1.0%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Electricity	2.0	2.1	2.2	2.3	2.3	2.5	2.6	0.9%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	4.2	4.5	4.7	4.9	5.0	5.2	5.4	0.9%
Commercial								
Liquid fuels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5%
Natural gas	0.6	0.7	0.7	0.8	0.8	0.8	0.8	1.2%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	1.3	1.5	1.6	1.8	1.9	2.0	2.1	1.7%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Total	1.9	2.2	2.3	2.6	2.7	2.9	3.0	1.5%
Industrial								
Liquid fuels	5.8	6.0	6.1	6.6	7.1	7.4	7.7	1.0%
Natural gas	11.4	11.9	12.1	12.8	13.5	14.5	15.5	1.1%
Coal	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2%
Electricity	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Total	18.0	18.7	19.1	20.3	21.5	22.8	24.1	1.0%
Transportation								
Liquid fuels	7.3	7.7	7.8	7.9	8.0	8.1	8.2	0.4%
Natural gas	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Electricity	0.0	0.0	0.0	0.1	0.1	0.2	0.3	12.9%
Total	7.7	8.0	8.1	8.3	8.4	8.6	8.9	0.5%
Components of energy use								
End-use consumption								
Liquid fuels	13.4	14.0	14.2	14.8	15.4	15.8	16.2	0.7%
Natural gas	14.3	15.0	15.4	16.2	17.0	18.2	19.3	1.1%
Coal	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2%
Electricity	3.8	4.1	4.4	4.7	5.0	5.3	5.6	1.3%
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Total end-use consumption	31.9	33.4	34.3	36.0	37.7	39.6	41.4	0.9%
Electricity-related losses	7.0	8.2	8.0	8.0	8.0	8.1	8.3	0.6%
Discrepancy	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.8	
Total	38.2	40.9	41.6	43.3	45.0	47.0	48.9	0.9%
Electric power								
Liquid fuels	2.3	2.7	1.4	0.6	0.3	0.1	0.0	-15.0%
Natural gas	7.9	8.4	9.0	9.8	10.3	10.9	11.3	1.3%
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.9%
Nuclear	0.2	0.4	0.6	0.8	0.9	0.9	0.9	4.7%
Renewables	0.2	0.4	1.3	1.4	1.5	1.6	1.6	5.5%
								0.9%
Total	10.8	12.3	12.4	12.7	13.0	13.4	13.8	5.5%
Total energy consumption	45.0	45.0	14.0	4 4 7	44.0	45 4	45.0	0.40/
Liquid fuels	15.0	15.9	14.9	14.7	14.8	15.1	15.3	0.1%
Natural gas	22.4	23.5	24.6	26.2	27.5	29.2	30.8	1.1%
Coal	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2%
Nuclear	0.2	0.4	0.6	0.8	0.9	0.9	0.9	4.7%

Total	38.2	40.9	41.6	43.3	45.0	47.0	48.9	0.9%