Table F21. Delivered energy consumption in Middle East by end-use sector and fuel, High Economic Growth case quadrillion British thermal units

Sector and fuel 2022 2025 2030 Residential Liquid fuels 0.3 0.3 0.3	0.3	2040	2045	2050	2022–2050
	0.3				
0.5 0.5	0.5	0.3	0.3	0.3	-0.3%
Natural gas 2.0 2.0 2.1	2.2	2.3	2.4	2.6	0.9%
Coal 0.0 0.0 0.0	0.0	0.0	0.0	0.0	-0.1%
Electricity 2.0 2.0 2.1	2.2	2.3	2.4	2.5	0.9%
Renewables 0.0 0.0 0.0	0.0	0.0	0.0	0.0	0.8%
Total 4.2 4.3 4.5	4.7	4.9	5.1	5.3	0.8%
Commercial 4.2 4.3 4.5	4.7	4.3	3.1	5.5	0.876
	0.0	0.0	0.0	0.0	0.0%
	0.0				1.4%
Natural gas 0.6 0.7 0.7	0.8	0.8	0.8	0.9	0.0%
Coal 0.0 0.0 0.0	0.0	0.0	0.0	0.0	
Electricity 1.3 1.4 1.6	1.8	1.9	2.1	2.2	1.9%
Renewables 0.0 0.0 0.0	0.0	0.0	0.0	0.0	0.8%
Total 2.0 2.1 2.3	2.6	2.8	3.0	3.2	1.7%
Industrial					
Liquid fuels 5.8 6.0 6.3	6.9	7.5	7.9	8.3	1.3%
Natural gas 11.4 11.9 12.7	13.6	15.0	17.0	19.5	1.9%
Coal 0.3 0.3 0.3	0.3	0.3	0.3	0.3	0.4%
Electricity 0.6 0.6 0.6	0.6	0.6	0.6	0.6	0.4%
Renewables 0.0 0.0 0.0	0.0	0.0	0.0	0.0	0.8%
Total 18.1 18.7 19.9	21.4	23.4	25.8	28.8	1.7%
Transportation					
Liquid fuels 7.3 7.7 8.1	8.5	8.8	9.3	9.7	1.0%
Natural gas 0.3 0.3 0.3	0.3	0.3	0.3	0.4	0.7%
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	0.1	0.1	0.1	9.2%
Total 7.7 8.1 8.4	8.8	9.2	9.7	10.3	1.1%
Components of energy use					
End-use consumption					
Liquid fuels 13.5 14.1 14.7	15.7	16.6	17.5	18.4	1.1%
Natural gas 14.3 15.0 15.9	16.9	18.4	20.6	23.4	1.8%
Coal 0.3 0.3 0.3	0.3	0.3	0.3	0.3	0.4%
Electricity 3.8 4.0 4.3	4.6	4.9	5.2	5.5	1.3%
Renewables 0.0 0.0 0.0	0.0	0.0	0.0	0.0	0.8%
Total end-use consumption 31.9 33.3 35.2	37.5	40.3	43.7	47.6	1.4%
Electricity-related losses 7.0 8.3 7.9	7.9	8.0	8.1	8.2	0.6%
Discrepancy -0.7 -0.7 -0.7	-0.7	-0.7	-0.7	-0.7	
Total 38.3 40.9 42.4	44.8	47.5	51.0	55.1	1.3%
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 8.8	9.7	10.2	10.8	11.2	1.2%
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 0.4 0.8 1.3	1.4	1.5	1.5	1.6	5.4%
Total 10.8 12.3 12.2	12.5	12.8	13.3	13.7	0.8%
Total energy consumption	12.3	12.0	13.3	13.7	3.070
Liquid fuels 15.0 15.9 15.4	15.5	16.1	16.8	17.5	0.5%
					1.6%
Natural gas 22.4 23.5 24.9	26.8	28.8	31.5	34.8	
Coal 0.3 0.3 0.3	0.3	0.3	0.3	0.3	0.3%
Nuclear 0.2 0.4 0.6	0.8	0.9	0.9	0.9	4.7%
Renewables 0.4 0.8 1.3	1.4	1.5	1.6	1.6	5.3%

Total 38.3 40.9 42.4 44.8 47.5 51.0 55.1 1.3%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding. End-use sector electricity consumption and end-use sector delivered energy consumption do not include electrical system energy losses incurred in the generation, transmission, and distribution of electricity. Electricity-related losses include energy losses during generation due to thermal efficiency, energy losses during transmission and distribution, and parasitic load. In all regions except the United States, fuel consumed to produce district heat is allocated to the residential, commercial, and industrial end-use sectors according to their respective share of heat demand. We converted electricity generation from renewable sources such as hydroelectric, wind, or solar to British thermal units at a rate of 8,124 British thermal units per kilowatthour, which reflects the average projected conversion efficiency of the U.S. fossil-fueled generating fleet in the Annual Energy Outlook 2021 over the projection period (2022–2050).