

Table 30: Energy Balance Table in 2022 (kilo tonnes of oil equivalent)

Energy Balance for Malaysia 2022 (kilo tonnes of oil equivalent)																					
Energy Source	NATURAL GAS	LNG	CRUDE OIL (1)	OTHERS (2)	TOTAL PETROLEUM PRODUCTS	Petroleum Products							COAL & COKE	HYDRO POWER	SOLAR	BIOMASS	BIOGAS	BODIESEL	ELECTRICITY	TOTAL	
						Petrol	Diesel	Fuel Oil	LPG	Kerosene	ATF & AV GAS	Non-Energy									Refinery Gas
<b>PRIMARY SUPPLY</b>																					
1. Primary Production	79,727	0	24,944	0	0	0	0	0	0	0	0	0	2,157	2,748	294	226	134	1,153	0	111,382	
2. Gas Flaring, Reinjection & Use	-13,202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-13,202	
3. Imports	6,625	3,801	11,819	76	16,029	9,021	3,549	580	851	13	1,431	585	21,346	0	0	0	0	0	0	59,696	
4. Exports	-1,629	-29,487	-9,874	-47	-11,877	-2,188	-3,984	-1,670	-616	-19	-997	-2,402	0	0	0	0	0	-177	-70	-53,162	
5. Bunkers	0	0	0	0	-845	0	-42	-804	0	0	0	0	0	0	0	0	0	0	0	-845	
6. Stock Change	0	0	290	0	137	81	100	101	1	-2	-68	-76	149	0	0	0	0	0	217	792	
7. Statistical Discrepancy	0	0	-97	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	-94	
<b>8. Primary Supply</b>	<b>71,521</b>	<b>-25,686</b>	<b>27,081</b>	<b>29</b>	<b>3,443</b>	<b>6,913</b>	<b>-377</b>	<b>-1,793</b>	<b>236</b>	<b>-8</b>	<b>365</b>	<b>-1,892</b>	<b>0</b>	<b>23,655</b>	<b>2,748</b>	<b>294</b>	<b>226</b>	<b>134</b>	<b>1,193</b>	<b>-70</b>	<b>104,566</b>
<b>TRANSFORMATION</b>																					
9. Gas Plants																					
9.1 Liquefaction (3/)	-42,503	30,045	0	0	43	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	-12,415
9.2 Regasification (4/)	2,506	-3,801	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1,295
9.3 Gas-to-Liquid (5/)	-3,285	0	0	0	1,685	0	129	0	1,242	44	0	270	0	0	0	0	0	0	0	0	-1,600
<b>Subtotal</b>	<b>-43,282</b>	<b>26,244</b>	<b>0</b>	<b>0</b>	<b>1,728</b>	<b>0</b>	<b>129</b>	<b>0</b>	<b>1,285</b>	<b>44</b>	<b>0</b>	<b>270</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-15,311</b>
10. Refineries																					
10. Refineries	0	0	-27,030	-29	24,754	6,958	10,525	2,185	1,049	2	1,461	2,409	164	0	0	0	0	0	0	0	-2,305
11. Power Stations & Self-Generation																					
11.1 Hydro Stations																					
11.1 Hydro Stations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2,744	0	0	0	0	2,744	0
11.2 Thermal Stations																					
11.2 Thermal Stations	-12,299	0	0	0	-412	0	-313	-99	0	0	0	0	0	-22,102	0	-291	-35	-131	0	13,046	-22,224
11.3 Self-Generation (6/)																					
11.3 Self-Generation (6/)	-1,210	0	0	0	-546	0	-546	0	0	0	0	0	0	0	-4	-2	-191	-2	0	769	-1,186
<b>Subtotal</b>	<b>-13,509</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-958</b>	<b>0</b>	<b>-859</b>	<b>-99</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-22,102</b>	<b>-2,748</b>	<b>-294</b>	<b>-226</b>	<b>-134</b>	<b>0</b>	<b>16,559</b>	<b>-23,411</b>
12. Losses & Own Use																					
12. Losses & Own Use	-1,061	-557	-51	0	-438	0	0	-19	0	0	0	-255	-164	0	0	0	0	0	0	-1,323	-3,429
13. Statistical Discrepancy																					
13. Statistical Discrepancy	1	-0	0	0	609	159	59	236	68	1	-7	93	0	0	0	0	0	0	0	-701	-91
<b>14. Secondary Supply</b>	<b>-57,815</b>	<b>25,686</b>	<b>-27,081</b>	<b>-29</b>	<b>25,695</b>	<b>7,117</b>	<b>9,855</b>	<b>2,303</b>	<b>2,401</b>	<b>47</b>	<b>1,454</b>	<b>2,517</b>	<b>0</b>	<b>-22,102</b>	<b>-2,748</b>	<b>-294</b>	<b>-226</b>	<b>-134</b>	<b>0</b>	<b>14,535</b>	<b>-44,547</b>
<b>FINAL USE</b>																					
15. Residential																					
15. Residential	6	0	0	0	940	0	0	0	930	10	0	0	0	0	0	0	0	0	0	3,142	4,088
16. Commercial																					
16. Commercial	34	0	0	0	408	0	87	31	290	0	0	0	0	0	0	0	0	0	0	3,967	4,409
17. Industry																					
17. Industry	8,278	0	0	0	1,941	161	1,097	479	175	29	0	0	0	1,553	0	0	0	0	0	7,260	19,033
18. Transport																					
18. Transport	36	0	0	0	22,823	13,820	7,185	0	0	0	1,819	0	0	0	0	0	0	0	1,193	38	24,091
19. Agriculture																					
19. Agriculture	0	0	0	0	355	0	355	0	0	0	0	0	0	0	0	0	0	0	0	58	412
20. Fishery																					
20. Fishery	0	0	0	0	803	49	754	0	0	0	0	0	0	0	0	0	0	0	0	0	803
21. Non-Energy Use																					
21. Non-Energy Use	5,316	0	0	0	1,867	0	0	0	1,242	0	0	625	0	0	0	0	0	0	0	0	7,183
<b>22. Total Final Use</b>	<b>13,670</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29,138</b>	<b>14,030</b>	<b>9,478</b>	<b>510</b>	<b>2,637</b>	<b>38</b>	<b>1,819</b>	<b>625</b>	<b>0</b>	<b>1,553</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,193</b>	<b>14,465</b>	<b>60,019</b>
<b>Electricity Output</b>																					
<b>Main Activity Producer</b>																					
Gross Electricity Generation - GWh	63,994	0	0	0	1,351	0	1,020	331	0	0	0	0	0	82,222	31,890	3,384	143	535	0	0	183,520
<b>Autoproducer</b>																					
Gross Electricity Generation - GWh	6,295	0	0	0	1,783	0	1,783	0	0	0	0	0	0	0	44	28	776	10	0	0	8,935

1/ Crude production includes Condensates comprising Pentane and Heavier Hydrocarbons.

2/ Others Refer to Non-Crude Energy Forms (consist of Imported Light Diesel, Slop Reprocess, Crude Residuum & Middle East Residue) Which are Used as Refinery Intake.

3/ Report quantities of natural gas used for liquefaction to LNG and the amount of LNG produced.

4/ Report quantities of LNG used for vaporization to natural gas and the amount of natural gas produced.

5/ Gas-to-liquid is a refinery process to convert natural gas or other gaseous hydrocarbons into liquid hydrocarbons such as petroleum products.

6/ Estimated figures based from the Energy Commission, Statistics of Electricity Supply Industry in Malaysia 2022.

Note : Total may not necessarily add up due to rounding

Table 31: Energy Balance Table in 2022 (Petajoules)

Energy Balance for Malaysia 2022 (Petajoules)																				
Energy Source	NATURAL GAS	LNG	CRUDE OIL (1/)	OTHERS (2/)	TOTAL PETROLEUM PRODUCTS	Petroleum Products							COAL & COKE	HYDRO POWER	SOLAR	BIOMASS	BIOGAS	BIO DIESEL	ELECTRICITY	TOTAL
						Petrol	Diesel	Fuel Oil	LPG	Kerosene	ATF & AV GAS	Non-Energy								
<b>PRIMARY SUPPLY</b>																				
1. Primary Production	3,336	0	1,044	0	0	0	0	0	0	0	0	0	90	115	12	9	6	48	0	4,660
2. Gas Flaring, Reinjection & Use	-552	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-552
3. Imports	277	159	495	3	671	377	148	24	36	1	60	24	893	0	0	0	0	0	0	2,498
4. Exports	-68	-1,234	-413	-2	-497	-92	-167	-70	-26	-1	-42	-100	0	0	0	0	0	-7	-3	-2,224
5. Bunkers	0	0	0	0	-35	0	-2	-34	0	0	0	0	0	0	0	0	0	0	0	-35
6. Stock Change	0	0	12	0	6	3	4	4	0	0	-3	-3	6	0	0	0	0	9	0	33
7. Statistical Discrepancy	0	0	-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-4
<b>8. Primary Supply</b>	<b>2,992</b>	<b>-1,075</b>	<b>1,133</b>	<b>1</b>	<b>144</b>	<b>289</b>	<b>-16</b>	<b>-75</b>	<b>10</b>	<b>0</b>	<b>15</b>	<b>-79</b>	<b>990</b>	<b>115</b>	<b>12</b>	<b>9</b>	<b>6</b>	<b>50</b>	<b>-3</b>	<b>4,375</b>
<b>TRANSFORMATION</b>																				
9. Gas Plants																				
9.1 Liquefaction (3/)	-1,778	1,257	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	-519
9.2 Regasification (4/)	105	-159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-54
9.3 Gas-to-Liquid (5/)	-137	0	0	0	70	0	5	0	52	2	0	11	0	0	0	0	0	0	0	-67
<b>Subtotal</b>	<b>-1,811</b>	<b>1,098</b>	<b>0</b>	<b>0</b>	<b>72</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>54</b>	<b>2</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-641</b>
10. Refineries																				
10. Refineries	0	0	-1,131	-1	1,036	291	440	91	44	0	61	101	7	0	0	0	0	0	0	-96
11. Power Stations & Self-Generation																				
11.1 Hydro Stations																				
11.1 Hydro Stations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-115	0	0	0	0	115
11.2 Thermal Stations																				
11.2 Thermal Stations	-515	0	0	0	-17	0	-13	-4	0	0	0	0	0	-925	0	-12	-1	-5	0	-930
11.3 Self-Generation (6/)																				
11.3 Self-Generation (6/)	-51	0	0	0	-23	0	-23	0	0	0	0	0	0	0	0	0	-8	0	0	-50
<b>Subtotal</b>	<b>-565</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-40</b>	<b>0</b>	<b>-36</b>	<b>-4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-925</b>	<b>-115</b>	<b>-12</b>	<b>-9</b>	<b>-6</b>	<b>0</b>	<b>693</b>
12. Losses & Own Use																				
12. Losses & Own Use	-44	-23	-2	0	-18	0	0	-1	0	0	0	-11	-7	0	0	0	0	0	0	-143
13. Statistical Discrepancy																				
13. Statistical Discrepancy	0	0	0	0	25	7	2	10	3	0	0	4	0	0	0	0	0	0	0	-29
<b>14. Secondary Supply</b>	<b>-2,420</b>	<b>1,075</b>	<b>-1,133</b>	<b>-1</b>	<b>1,075</b>	<b>298</b>	<b>412</b>	<b>96</b>	<b>100</b>	<b>2</b>	<b>61</b>	<b>105</b>	<b>0</b>	<b>-925</b>	<b>-115</b>	<b>-12</b>	<b>-9</b>	<b>-6</b>	<b>0</b>	<b>608</b>
<b>FINAL USE</b>																				
15. Residential																				
15. Residential	0	0	0	0	39	0	0	0	39	0	0	0	0	0	0	0	0	0	0	131
16. Commercial																				
16. Commercial	1	0	0	0	17	0	4	1	12	0	0	0	0	0	0	0	0	0	0	166
17. Industry																				
17. Industry	346	0	0	0	81	7	46	20	7	1	0	0	0	65	0	0	0	0	0	304
18. Transport																				
18. Transport	2	0	0	0	955	578	301	0	0	0	76	0	0	0	0	0	0	0	50	2
19. Agriculture																				
19. Agriculture	0	0	0	0	15	0	15	0	0	0	0	0	0	0	0	0	0	0	0	2
20. Fishery																				
20. Fishery	0	0	0	0	34	2	32	0	0	0	0	0	0	0	0	0	0	0	0	34
21. Non-Energy Use																				
21. Non-Energy Use	222	0	0	0	78	0	0	0	52	0	0	26	0	0	0	0	0	0	0	301
<b>22. Total Final Use</b>	<b>572</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,219</b>	<b>587</b>	<b>397</b>	<b>21</b>	<b>110</b>	<b>2</b>	<b>76</b>	<b>26</b>	<b>0</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>2,511</b>
<b>Electricity Output</b>																				
<b>Main Activity Producer</b>																				
Gross Electricity Generation - GWh	63,994	0	0	0	1,351	0	1,020	331	0	0	0	0	0	82,222	31,890	3,384	143	535	0	183,520
<b>Autoproducer</b>																				
Gross Electricity Generation - GWh	6,295	0	0	0	1,783	0	1,783	0	0	0	0	0	0	0	44	28	776	10	0	8,935

1/ Crude production includes Condensates comprising Pentane and Heavier Hydrocarbons.

2/ Others Refer to Non-Crude Energy Forms (consist of Imported Light Diesel, Slop Reprocess, Crude Residuum & Middle East Residue) Which are Used as Refinery Intake.

3/ Report quantities of natural gas used for liquefaction to LNG and the amount of LNG produced.

4/ Report quantities of LNG used for vaporization to natural gas and the amount of natural gas produced.

5/ Gas-to-liquid is a refinery process to convert natural gas or other gaseous hydrocarbons into liquid hydrocarbons such as petroleum products.

6/ Estimated figures based from the Energy Commission, Statistics of Electricity Supply Industry in Malaysia 2022.

Note : Total may not necessarily add up due to rounding