

**Table E1.cap. Electricity installed generating capacity: World, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	391	377	223	145	111	100	96	-4.9%
Natural gas	1,931	2,042	2,156	2,229	2,379	2,565	2,739	1.3%
Coal	2,271	2,322	2,185	2,199	2,229	2,258	2,292	0.0%
Nuclear	400	425	423	446	456	458	470	0.6%
Renewables	3,297	4,075	5,059	5,724	6,528	7,425	8,212	3.3%
Hydro	1,211	1,317	1,376	1,416	1,437	1,462	1,483	0.7%
Wind	873	1,031	1,324	1,547	1,813	2,008	2,073	3.1%
Geothermal	15	17	27	30	34	34	35	3.1%
Solar	1,019	1,505	2,113	2,506	3,005	3,676	4,369	5.3%
Other	179	205	218	224	239	245	252	1.2%
Battery storage	52	70	130	247	385	665	953	10.9%
Pumped hydro	169	200	211	213	213	213	213	0.8%
<b>Total capacity</b>	<b>8,511</b>	<b>9,511</b>	<b>10,387</b>	<b>11,203</b>	<b>12,302</b>	<b>13,685</b>	<b>14,975</b>	<b>2.0%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253 and Annual Energy Outlook 2023 (March 2023), [www.eia.gov/aeo](http://www.eia.gov/aeo)

Note: Totals may not equal sum of components due to independent rounding.

**Table E2.cap. Electricity installed generating capacity: Americas, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	141	126	87	64	56	53	53	-3.4%
Natural gas	629	656	717	754	781	818	874	1.2%
Coal	227	197	129	125	120	124	123	-2.2%
Nuclear	114	115	113	105	97	90	89	-0.9%
Renewables	788	969	1,340	1,491	1,632	1,804	1,999	3.4%
Hydro	362	376	383	386	388	389	391	0.3%
Wind	200	238	370	424	460	503	541	3.6%
Geothermal	4	4	6	6	7	7	8	2.0%
Solar	159	288	518	610	712	838	993	6.8%
Other	62	63	64	65	66	66	67	0.3%
Battery storage	6	17	39	65	101	132	160	12.2%
Pumped hydro	23	23	23	23	23	23	23	0.0%
<b>Total capacity</b>	<b>1,929</b>	<b>2,103</b>	<b>2,447</b>	<b>2,627</b>	<b>2,810</b>	<b>3,044</b>	<b>3,322</b>	<b>2.0%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253 and Annual Energy Outlook 2023 (March 2023), [www.eia.gov/aeo](http://www.eia.gov/aeo)

Note: Totals may not equal sum of components due to independent rounding.

**Table E3.cap. Electricity installed generating capacity: United States, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	75	59	58	53	53	53	53	-1.3%
Natural gas	445	463	509	538	565	601	651	1.4%
Coal	201	171	111	100	89	88	88	-2.9%
Nuclear	95	96	93	85	81	78	78	-0.7%
Renewables	389	542	895	1,018	1,116	1,220	1,343	4.5%
Hydro	79	79	80	80	80	80	80	0.0%
Wind	145	171	296	334	340	344	354	3.2%
Geothermal	3	3	3	4	4	5	5	2.6%
Solar	125	252	478	562	653	751	863	7.1%
Other	37	37	38	39	39	40	41	0.3%
Battery storage	6	17	39	65	101	132	160	12.2%
Pumped hydro	22	22	22	22	22	22	22	0.0%
<b>Total capacity</b>	<b>1,234</b>	<b>1,370</b>	<b>1,727</b>	<b>1,883</b>	<b>2,026</b>	<b>2,193</b>	<b>2,393</b>	<b>2.4%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253 and Annual Energy Outlook 2023 (March 2023), [www.eia.gov/aeo](http://www.eia.gov/aeo)

Note: Totals may not equal sum of components due to independent rounding.

**Table E4.cap. Electricity installed generating capacity: Canada, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	4	4	0	0	0	0	0	-13.5%
Natural gas	33	36	50	56	57	57	64	2.4%
Coal	6	6	0	0	0	0	0	-100.0%
Nuclear	14	14	11	10	7	6	4	-4.4%
Renewables	105	109	119	133	158	188	209	2.5%
Hydro	83	86	89	89	89	89	89	0.3%
Wind	16	17	23	37	62	92	113	7.3%
Geothermal	0	0	0	0	0	0	0	0.0%
Solar	4	4	4	4	4	4	4	0.0%
Other	2	2	3	3	3	3	3	1.3%
Battery storage	0	0	0	0	0	0	0	--
Pumped hydro	0	0	0	0	0	0	0	0.0%
<b>Total capacity</b>	<b>161</b>	<b>169</b>	<b>181</b>	<b>199</b>	<b>223</b>	<b>251</b>	<b>277</b>	<b>2.0%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E5.cap. Electricity installed generating capacity: Mexico, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	13	14	7	4	1	0	0	-19.0%
Natural gas	44	45	45	49	53	55	55	0.8%
Coal	9	9	9	9	9	9	9	0.0%
Nuclear	2	2	3	4	3	2	2	1.5%
Renewables	30	33	36	40	45	58	71	3.1%
Hydro	13	14	15	15	15	15	16	0.7%
Wind	8	8	8	8	8	8	8	0.0%
Geothermal	1	1	1	1	1	1	1	0.0%
Solar	8	9	11	15	19	32	45	6.6%
Other	1	1	1	1	1	1	1	0.0%
Battery storage	0	0	0	0	0	0	0	0.0%
Pumped hydro	0	0	0	0	0	0	0	0.0%
<b>Total capacity</b>	<b>98</b>	<b>102</b>	<b>99</b>	<b>105</b>	<b>111</b>	<b>124</b>	<b>138</b>	<b>1.2%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E6.cap. Electricity installed generating capacity: Brazil, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	14	14	6	1	0	0	0	-15.3%
Natural gas	24	27	27	22	18	17	16	-1.4%
Coal	6	6	4	4	4	4	4	-1.3%
Nuclear	2	2	3	3	3	2	2	0.9%
Renewables	161	173	173	174	178	187	194	0.7%
Hydro	112	117	117	117	117	117	117	0.2%
Wind	20	26	27	28	32	41	48	3.2%
Geothermal	0	0	0	0	0	0	0	0.0%
Solar	13	13	13	13	13	13	13	0.0%
Other	16	16	16	16	16	16	16	0.0%
Battery storage	0	0	0	0	0	0	0	0.0%
Pumped hydro	0	0	0	0	0	0	0	0.0%
<b>Total capacity</b>	<b>207</b>	<b>222</b>	<b>213</b>	<b>205</b>	<b>204</b>	<b>211</b>	<b>217</b>	<b>0.2%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E7.cap. Electricity installed generating capacity: Other Americas, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	35	35	16	6	2	0	0	-19.9%
Natural gas	84	85	85	88	88	88	88	0.2%
Coal	6	6	6	11	19	23	23	5.0%
Nuclear	2	2	2	2	2	2	2	0.8%
Renewables	103	111	117	126	135	151	182	2.1%
Hydro	75	79	82	85	87	88	90	0.6%
Wind	12	15	16	18	18	18	18	1.5%
Geothermal	1	1	1	1	1	1	1	2.0%
Solar	10	11	13	16	23	38	68	7.2%
Other	5	5	5	6	6	6	6	0.1%
Battery storage	0	0	0	0	0	0	0	0.0%
Pumped hydro	1	1	1	1	1	1	1	0.0%
<b>Total capacity</b>	<b>230</b>	<b>239</b>	<b>227</b>	<b>235</b>	<b>246</b>	<b>265</b>	<b>297</b>	<b>0.9%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E8.cap. Electricity installed generating capacity: Europe and Eurasia, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	77	78	53	41	34	33	33	-3.0%
Natural gas	474	483	507	511	524	541	565	0.6%
Coal	269	272	224	229	229	229	229	-0.6%
Nuclear	168	173	151	156	156	154	155	-0.3%
Renewables	782	908	1,015	1,033	1,064	1,129	1,214	1.6%
Hydro	272	297	300	301	301	302	302	0.4%
Wind	245	283	324	327	330	334	338	1.2%
Geothermal	3	6	8	8	8	8	8	3.1%
Solar	206	247	300	310	332	386	461	2.9%
Other	56	75	83	88	94	99	105	2.3%
Battery storage	0	0	0	0	0	46	91	--
Pumped hydro	50	51	52	52	52	52	52	0.1%
<b>Total capacity</b>	<b>1,820</b>	<b>1,965</b>	<b>2,002</b>	<b>2,021</b>	<b>2,059</b>	<b>2,184</b>	<b>2,338</b>	<b>0.9%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.



**Table E9.cap. Electricity installed generating capacity: Western Europe, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	60	61	41	30	24	24	23	-3.3%
Natural gas	299	305	305	285	268	257	248	-0.7%
Coal	171	171	118	118	118	118	118	-1.3%
Nuclear	124	127	107	108	109	107	107	-0.5%
Renewables	683	802	909	925	956	1,017	1,101	1.7%
Hydro	191	214	217	217	217	217	217	0.5%
Wind	241	277	318	320	323	327	331	1.1%
Geothermal	3	6	8	8	8	8	8	3.1%
Solar	193	233	286	296	317	369	443	3.0%
Other	55	71	80	85	90	96	102	2.2%
Battery storage	0	0	0	0	0	46	91	--
Pumped hydro	47	48	48	48	48	48	48	0.1%
<b>Total capacity</b>	<b>1,384</b>	<b>1,514</b>	<b>1,528</b>	<b>1,516</b>	<b>1,523</b>	<b>1,617</b>	<b>1,737</b>	<b>0.8%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lp\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E10.cap. Electricity installed generating capacity: Russia, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	7	7	3	1	1	1	0	-10.1%
Natural gas	136	137	161	182	197	209	224	1.8%
Coal	55	55	55	55	55	55	55	0.0%
Nuclear	30	31	32	32	32	32	31	0.2%
Renewables	59	62	62	62	62	62	62	0.2%
Hydro	54	54	54	54	54	54	54	0.0%
Wind	1	3	3	3	3	3	3	2.4%
Geothermal	0	0	0	0	0	0	0	0.4%
Solar	2	2	2	2	2	2	2	0.0%
Other	1	3	3	3	3	3	3	2.5%
Battery storage	0	0	0	0	0	0	0	--
Pumped hydro	1	1	1	1	1	1	1	0.0%
<b>Total capacity</b>	<b>288</b>	<b>293</b>	<b>314</b>	<b>333</b>	<b>348</b>	<b>359</b>	<b>373</b>	<b>0.9%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E11.cap. Electricity installed generating capacity: Eastern Europe and Eurasia, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	10	10	9	9	9	9	9	-0.3%
Natural gas	38	41	41	44	59	75	93	3.2%
Coal	43	45	51	55	55	55	55	0.9%
Nuclear	15	15	12	16	16	16	17	0.6%
Renewables	40	44	45	46	46	50	52	0.9%
Hydro	26	29	29	30	30	30	30	0.5%
Wind	2	3	3	4	4	4	4	2.4%
Geothermal	0	0	0	0	0	0	0	--
Solar	11	12	12	12	12	15	16	1.3%
Other	0	1	1	1	1	1	1	2.9%
Battery storage	0	0	0	0	0	0	0	0.0%
Pumped hydro	2	2	2	2	2	2	2	0.6%
<b>Total capacity</b>	<b>148</b>	<b>158</b>	<b>160</b>	<b>173</b>	<b>188</b>	<b>208</b>	<b>228</b>	<b>1.6%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lp\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E12.cap. Electricity installed generating capacity: Asia Pacific, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	93	93	44	25	14	10	9	-8.1%
Natural gas	460	520	549	548	611	704	768	1.8%
Coal	1,725	1,803	1,781	1,796	1,830	1,855	1,890	0.3%
Nuclear	108	126	146	168	183	193	206	2.3%
Renewables	1,633	2,042	2,475	2,942	3,548	4,152	4,603	3.8%
Hydro	523	577	620	651	666	679	691	1.0%
Wind	417	485	587	751	978	1,125	1,147	3.7%
Geothermal	6	6	9	10	11	11	11	2.0%
Solar	628	909	1,192	1,464	1,818	2,263	2,680	5.3%
Other	59	65	66	67	75	75	75	0.9%
Battery storage	46	52	91	182	285	488	702	10.2%
Pumped hydro	91	120	131	133	133	133	133	1.3%
<b>Total capacity</b>	<b>4,158</b>	<b>4,756</b>	<b>5,218</b>	<b>5,793</b>	<b>6,603</b>	<b>7,536</b>	<b>8,310</b>	<b>2.5%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lp\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E13.cap. Electricity installed generating capacity: Japan, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	35	35	19	11	7	7	7	-5.8%
Natural gas	95	101	101	89	80	77	77	-0.7%
Coal	64	65	42	41	41	41	41	-1.5%
Nuclear	14	20	25	25	21	18	18	0.9%
Renewables	108	112	118	125	139	153	166	1.6%
Hydro	22	22	22	22	22	22	22	0.0%
Wind	4	4	4	5	13	21	28	6.9%
Geothermal	0	0	0	0	0	0	0	0.0%
Solar	76	81	86	93	99	105	111	1.3%
Other	5	5	5	5	5	5	5	0.1%
Battery storage	0	0	0	0	0	0	0	0.0%
Pumped hydro	28	28	28	28	28	28	28	0.0%
<b>Total capacity</b>	<b>344</b>	<b>362</b>	<b>332</b>	<b>319</b>	<b>317</b>	<b>325</b>	<b>338</b>	<b>-0.1%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E14.cap. Electricity installed generating capacity: South Korea, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	5	5	2	2	1	1	1	-4.4%
Natural gas	43	46	46	41	38	35	35	-0.8%
Coal	43	46	46	46	46	46	46	0.3%
Nuclear	27	31	31	31	31	29	29	0.2%
Renewables	22	27	33	46	57	71	80	4.8%
Hydro	2	2	2	2	2	2	2	1.1%
Wind	2	7	13	26	37	51	60	13.1%
Geothermal	0	0	0	0	0	0	0	--
Solar	16	16	16	16	16	16	16	0.0%
Other	2	2	2	2	2	2	2	0.0%
Battery storage	0	0	0	0	0	0	0	--
Pumped hydro	5	5	5	5	5	5	5	0.0%
<b>Total capacity</b>	<b>144</b>	<b>158</b>	<b>162</b>	<b>170</b>	<b>177</b>	<b>187</b>	<b>196</b>	<b>1.1%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E15.cap. Electricity installed generating capacity: Australia and New Zealand, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	2	2	0	0	0	0	0	-11.6%
Natural gas	25	25	25	20	16	18	18	-1.1%
Coal	28	28	28	28	28	28	28	0.0%
Nuclear	0	0	0	0	0	0	0	0.0%
Renewables	48	56	62	71	84	92	104	2.8%
Hydro	12	14	16	16	16	16	16	1.1%
Wind	11	16	18	21	24	25	25	2.9%
Geothermal	1	1	1	1	1	1	1	0.0%
Solar	23	24	26	31	42	49	61	3.6%
Other	1	1	1	1	1	1	1	0.1%
Battery storage	0	0	0	0	1	2	6	--
Pumped hydro	2	4	4	4	4	4	4	3.1%
<b>Total capacity</b>	<b>105</b>	<b>115</b>	<b>119</b>	<b>123</b>	<b>133</b>	<b>145</b>	<b>161</b>	<b>1.5%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E16.cap. Electricity installed generating capacity: China, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	5	5	1	0	0	0	0	-16.3%
Natural gas	106	144	158	195	284	380	443	5.2%
Coal	1,164	1,203	1,203	1,203	1,203	1,203	1,203	0.1%
Nuclear	55	59	77	96	114	129	142	3.5%
Renewables	1,165	1,431	1,686	1,796	2,011	2,163	2,184	2.3%
Hydro	359	375	398	412	425	437	447	0.8%
Wind	356	380	428	490	617	740	746	2.7%
Geothermal	0	0	0	0	0	0	0	0.1%
Solar	420	646	830	865	939	956	960	3.0%
Other	30	30	30	30	30	30	30	0.0%
Battery storage	46	49	58	63	80	91	94	2.6%
Pumped hydro	47	72	83	84	84	84	84	2.1%
<b>Total capacity</b>	<b>2,587</b>	<b>2,963</b>	<b>3,265</b>	<b>3,439</b>	<b>3,777</b>	<b>4,050</b>	<b>4,152</b>	<b>1.7%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.



**Table E17.cap. Electricity installed generating capacity: India, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	6	6	1	0	0	0	0	-14.2%
Natural gas	31	31	45	46	48	48	48	1.6%
Coal	291	310	310	311	317	317	317	0.3%
Nuclear	7	7	9	11	12	12	12	1.9%
Renewables	158	237	353	606	856	1,193	1,545	8.5%
Hydro	50	64	64	65	66	66	67	1.0%
Wind	39	69	108	179	253	253	253	6.9%
Geothermal	0	0	0	0	0	0	0	--
Solar	58	93	169	350	527	863	1,214	11.5%
Other	11	11	11	11	11	11	11	0.1%
Battery storage	0	3	33	119	204	394	585	--
Pumped hydro	5	6	6	6	6	6	6	1.0%
<b>Total capacity</b>	<b>498</b>	<b>600</b>	<b>757</b>	<b>1,100</b>	<b>1,443</b>	<b>1,971</b>	<b>2,513</b>	<b>6.0%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lp\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E18.cap. Electricity installed generating capacity: Other Asia Pacific, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	40	41	22	12	6	2	0	-14.8%
Natural gas	160	175	176	157	146	146	146	-0.3%
Coal	136	151	151	165	194	219	254	2.3%
Nuclear	6	8	5	5	5	5	5	-0.2%
Renewables	133	179	224	299	400	480	524	5.0%
Hydro	78	100	118	134	135	136	137	2.0%
Wind	5	10	15	30	34	35	35	7.2%
Geothermal	4	4	7	8	9	9	9	2.6%
Solar	35	49	66	109	196	274	318	8.2%
Other	10	16	17	18	26	26	26	3.4%
Battery storage	0	0	0	0	0	0	16	--
Pumped hydro	5	5	5	5	5	5	5	0.0%
<b>Total capacity</b>	<b>480</b>	<b>558</b>	<b>583</b>	<b>643</b>	<b>756</b>	<b>858</b>	<b>951</b>	<b>2.5%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E19.cap. Electricity installed generating capacity: Africa and Middle East, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	79	80	39	16	7	3	1	-15.4%
Natural gas	368	383	383	416	462	502	532	1.3%
Coal	49	51	50	50	50	50	50	0.1%
Nuclear	10	12	13	17	20	20	20	2.6%
Renewables	94	157	228	257	284	340	395	5.3%
Hydro	55	67	73	78	82	92	100	2.2%
Wind	10	24	43	45	46	47	47	5.7%
Geothermal	1	1	5	6	9	9	9	8.5%
Solar	26	61	103	123	143	188	235	8.1%
Other	2	3	4	4	4	4	5	3.7%
Battery storage	0	0	0	0	0	0	0	--
Pumped hydro	5	6	6	6	6	6	6	0.7%
<b>Total capacity</b>	<b>604</b>	<b>688</b>	<b>719</b>	<b>763</b>	<b>830</b>	<b>920</b>	<b>1,005</b>	<b>1.8%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E20.cap. Electricity installed generating capacity: Africa, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	21	21	7	1	0	0	0	-16.2%
Natural gas	122	126	126	154	180	198	214	2.0%
Coal	49	50	50	50	50	50	50	0.1%
Nuclear	2	2	4	6	7	7	7	5.1%
Renewables	64	92	126	149	173	224	276	5.3%
Hydro	39	50	56	61	65	74	82	2.7%
Wind	9	16	26	27	28	28	28	4.3%
Geothermal	1	1	4	6	8	8	8	8.5%
Solar	14	23	36	51	68	109	152	8.9%
Other	2	3	3	4	4	4	4	3.6%
Battery storage	0	0	0	0	0	0	0	--
Pumped hydro	3	4	4	4	4	4	4	0.4%
<b>Total capacity</b>	<b>261</b>	<b>296</b>	<b>318</b>	<b>364</b>	<b>415</b>	<b>484</b>	<b>552</b>	<b>2.7%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.

**Table E21.cap. Electricity installed generating capacity: Middle East, Low Oil Price case**

gigawatts

<b>Fuel</b>	<b>2022</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>	<b>2050</b>	<b>Average annual percentage change, 2022–2050</b>
Liquid fuels	57	59	31	15	7	2	1	-15.1%
Natural gas	246	256	256	263	283	303	318	0.9%
Coal	0	0	0	0	0	0	0	-6.2%
Nuclear	8	10	9	11	12	12	12	1.6%
Renewables	29	64	103	108	111	116	119	5.1%
Hydro	16	17	17	17	17	17	17	0.4%
Wind	1	9	17	18	18	18	18	10.2%
Geothermal	0	0	0	0	0	0	0	--
Solar	12	38	68	72	75	79	83	7.0%
Other	0	0	0	0	0	0	1	5.4%
Battery storage	0	0	0	0	0	0	0	0.0%
Pumped hydro	2	2	2	2	2	2	2	1.4%
<b>Total capacity</b>	<b>343</b>	<b>392</b>	<b>401</b>	<b>399</b>	<b>415</b>	<b>436</b>	<b>453</b>	<b>1.0%</b>

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip\_230823.090253

Note: Totals may not equal sum of components due to independent rounding.