

Table 4. Summary results for AEO2015 High Oil and Gas Resource, High Economic Growth and CPP cases, selected years

	2005	2013	2020				2030				2040			
			AEO HOGR	CPP HOGR	AEO HEG	CPP HEG	AEO HOGR	CPP HOGR	AEO HEG	CPP HEG	AEO HOGR	CPP HOGR	AEO HEG	CPP HEG
ELECTRIC GENERATION (billion kWh)														
Coal	2,013	1,586	1,443	1,212	1,733	1,415	1,441	898	1,733	1,293	1,440	910	1,744	1,421
Natural Gas	761	1,118	1,450	1,610	1,204	1,377	1,832	2,092	1,573	1,422	2,200	2,439	1,705	1,475
Nuclear	782	789	804	804	804	804	808	808	818	808	808	808	911	863
Hydro	270	267	289	294	294	305	290	295	297	305	290	295	298	308
Wind	18	168	229	263	243	315	232	407	301	634	234	412	489	725
Solar	1	19	51	59	52	70	65	85	80	247	85	106	160	420
Other renewables	69	76	107	110	106	117	146	128	158	161	175	145	222	207
Oil/other	142	47	44	41	43	42	42	39	43	41	42	40	43	42
Total	4,055	4,070	4,417	4,392	4,480	4,445	4,854	4,753	5,003	4,912	5,274	5,154	5,574	5,461
ELECTRIC GENERATION CAPACITY (GW)														
Coal	313	304	245	201	265	230	242	173	263	223	242	173	264	223
Natural gas / Oil	442	470	497	516	490	497	573	607	564	540	674	704	657	629
Nuclear	100	99	101	101	101	101	101	101	103	102	101	101	115	109
Hydro	78	79	79	80	80	82	79	80	80	82	79	80	81	83
Wind	9	61	82	97	87	115	83	142	105	216	84	144	165	245
Solar	0	13	27	32	28	38	36	45	44	121	48	58	82	200
Other renewables	12	15	17	18	18	19	20	21	23	26	22	23	32	31
Other	24	25	26	26	26	26	26	26	26	26	26	26	26	26
Total	978	1,065	1,075	1,070	1,094	1,108	1,159	1,196	1,207	1,335	1,275	1,309	1,422	1,546
ELECTRICITY-RELATED CARBON DIOXIDE EMISSIONS (million metric tons)														
Power sector	2,416	2,053	1,973	1,789	2,165	1,886	2,089	1,605	2,262	1,727	2,179	1,701	2,266	1,827
ELECTRICITY PRICES (2013 cents per kWh)														
Residential	11.0	12.2	12.3	12.6	12.9	13.4	12.6	13.1	13.7	14.1	12.8	13.1	14.9	15.1
Commercial	10.1	10.1	10.1	10.3	10.8	11.1	10.0	10.4	11.3	11.6	10.2	10.4	12.4	12.6
Industrial	6.6	6.9	6.8	7.0	7.4	7.7	6.8	7.1	7.9	8.1	7.1	7.2	8.9	8.9
All Sectors ¹	9.4	10.1	10.0	10.2	10.6	10.9	10.0	10.4	11.1	11.5	10.3	10.5	12.3	12.4
ELECTRICITY EXPENDITURES (billion 2013 dollars)														
Residential	149	169	177	179	190	194	192	194	220	222	211	211	265	264
Commercial	128	136	144	146	153	156	156	158	174	175	174	172	209	205
Industrial	68	66	76	78	86	89	86	88	104	105	90	91	127	126
Total ²	345	371	397	403	428	439	434	440	498	502	475	473	602	594
ENERGY PRODUCTION (quadrillion Btu)														
Natural Gas	18.6	25.1	33.1	34.0	30.0	30.8	43.8	45.0	35.3	33.9	52.0	52.2	37.7	36.0
Coal	23.2	20.0	18.8	16.3	22.0	18.4	19.8	14.0	23.0	18.3	20.3	14.7	23.5	20.0
Oil	13.3	19.2	32.6	32.6	27.7	27.7	40.5	40.5	27.1	27.0	43.6	43.3	26.0	25.8
Nuclear	8.2	8.3	8.4	8.4	8.4	8.4	8.5	8.5	8.6	8.5	8.5	8.5	9.5	9.0
Renewable	6.2	9.0	10.4	10.9	10.7	11.8	10.9	12.6	12.0	16.9	11.4	13.0	15.5	20.1
Other	0.0	1.3	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0
Total	69.4	82.7	104.3	103.1	99.7	98.1	124.4	121.6	107.0	105.6	136.8	132.7	113.3	111.9

Table 4. Summary results for AEO2015 High Oil and Gas Resource, High Economic Growth and CPP cases, selected years (cont.)

	2005	2013	2020				2030				2040			
			AEO HOGR	CPP HOGR	AEO HEG	CPP HEG	AEO HOGR	CPP HOGR	AEO HEG	CPP HEG	AEO HOGR	CPP HOGR	AEO HEG	CPP HEG
OTHER PRICES (2013 \$/MMBtu, unless otherwise noted)														
Natural Gas (Henry Hub)	10.08	3.73	3.12	3.38	5.03	5.75	3.67	3.81	6.02	5.81	4.38	4.47	8.45	8.49
Average Delivered Natural Gas Price to Electric Power Sector	9.55	4.40	3.68	4.07	5.65	6.34	4.15	4.27	6.61	6.31	4.67	4.86	8.71	8.57
Steam Coal Minemouth Price (2013\$/short-ton)	24.79	31.31	31.18	31.37	32.74	33.37	33.82	31.32	36.61	33.83	37.96	34.78	41.60	38.92
Steam Coal Price Delivered to Electric Power Sector	1.79	2.34	2.24	2.18	2.39	2.33	2.44	2.12	2.68	2.41	2.67	2.30	2.96	2.73
Brent Spot Price (2013 dollars per barrel)	63.32	108.64	75.72	75.40	79.67	79.62	98.15	97.99	107.51	107.24	129.38	129.52	145.17	144.91
ECONOMIC INDICATORS (billion 2009 chain-weighted dollars, unless otherwise noted)														
Gross domestic product	14,234	15,710	18,841	18,796	19,590	19,526	24,222	24,192	26,146	26,126	30,236	30,186	34,146	34,107
Total industrial shipments	7,464	7,004	8,566	8,536	8,967	8,924	10,349	10,314	11,081	11,022	11,989	11,969	13,786	13,656
Non-farm employment (millions)	134	136	149	149	152	152	160	160	166	166	170	170	176	176
Average Annual Change in CPI from 2013 (%)	-	0.00%	1.56%	1.60%	1.67%	1.74%	1.63%	1.63%	1.62%	1.65%	1.85%	1.84%	1.80%	1.82%
END-USE ENERGY CONSUMPTION (quadrillion Btu)														
Liquids	39.1	35.6	37.4	37.3	37.8	37.6	37.7	37.4	38.3	38.2	37.4	37.3	39.7	39.4
Natural Gas	16.6	18.5	19.8	19.7	19.2	19.1	21.9	21.9	20.6	20.6	24.1	24.0	22.5	22.4
Electricity	12.5	12.6	13.6	13.6	13.8	13.7	14.8	14.5	15.3	15.0	15.9	15.5	16.8	16.4
Coal	2.1	1.5	1.6	1.6	1.7	1.7	1.6	1.5	1.8	1.8	1.5	1.5	1.9	1.9
PRIMARY ENERGY (quadrillion Btu)														
Consumption	100.2	97.1	101.8	100.6	103.1	101.6	106.8	103.7	108.5	107.2	110.8	107.7	116.2	114.9
Imports	34.7	24.5	19.9	20.4	21.0	20.9	18.2	18.0	23.5	23.2	18.3	18.4	27.3	26.9
Exports	4.5	11.7	22.5	23.0	17.7	17.4	35.7	35.8	21.7	21.4	44.0	43.2	23.9	23.5
Production	69.4	82.7	104.3	103.1	99.7	98.1	124.4	121.6	107.0	105.6	136.8	132.7	113.3	111.9

¹All sector average price includes transportation sector.

²Total expenditures exclude transportation sector.

Source: U.S. Energy Information Administration.