

## Appendix A: Summary Table

Table A1. BCES12 and Reference Case Results

	2010	2025		2035	
		Reference	BCES12	Reference	BCES12
<b>Generation (billion kilowatthours)</b>					
Coal	1,851	1,855	1,388	1,951	901
Petroleum	37	31	21	32	18
Natural Gas	982	1,101	1,209	1,368	1,483
Nuclear	807	917	1,064	894	1,452
Conventional Hydropower	257	304	311	313	311
Non-Hydro Renewable	173	374	530	478	641
Geothermal	16	31	37	47	53
Municipal Waste	19	17	17	17	17
Wood and Other Biomass	38	146	236	178	257
Solar	6	27	28	45	46
Wind	95	153	212	190	268
Other	21	20	20	21	21
Total Generation	4,128	4,603	4,543	5,056	4,828
<b>Capacity (gigawatts)</b>					
Coal	318	298	257	301	236
Petroleum	109	90	83	88	81
Natural Gas	350	401	386	470	430
Nuclear	101	115	134	112	184
Conventional Hydropower	78	80	82	82	82
Non-Hydro Renewable	56	93	112	119	148
Geothermal	2	4	5	6	7
Municipal Waste	4	4	4	4	4
Wood and Other Biomass	7	12	12	18	17
Solar	4	16	17	23	27
Wind	39	57	75	68	92
Other (including pumped storage)	25	25	25	25	25
Total	1,037	1,102	1,079	1,197	1,185

Table A1. BCES12 and Reference Case Results (continued)

	2010		2025		2035	
			Reference	BCES12	Reference	BCES12
<b>Generation by Technology (billion kilowatthours)</b>						
Electric Power Sector						
Coal						
w/o Sequestration	1,831	1,883	1,508	1,952	978	
with Sequestration	0	7	7	7	7	
Oil and Natural Gas Steam	125	86	77	87	77	
Combined Cycle						
w/o Sequestration	752	877	974	1,087	1,150	
with Sequestration	0	0	0	3	0	
Combustion Turbine/Diesel						
Advanced	0	1	0	2	0	
Conventional	66	35	31	34	31	
Nuclear Power	807	917	1,064	894	1,452	
Other	390	522	589	599	665	
End-Use						
Coal	20	46	46	63	63	
Petroleum	3	2	2	2	2	
Natural Gas	84	121	140	174	237	
Other Gaseous Fuels	11	15	15	15	15	
Renewable Sources	35	87	89	134	148	
Other	4	3	3	3	3	
Total	4,128	4,603	4,543	5,056	4,828	
<b>Prices (2010 cents/kWh)</b>						
Credit Price			3.30		7.96	
Average End-Use Electricity Price	9.78	9.29	9.65	9.54	11.29	
Residential	11.50	11.02	11.48	11.08	12.77	
Commercial	10.14	9.47	9.74	9.55	11.30	
Industrial	6.70	6.43	6.70	6.82	8.54	
Average Delivered Natural Gas Price (2010 dollars/Mcf)	7.33	8.03	8.06	9.40	9.47	
<b>Expenditures (billion 2010 dollars)</b>						
Total Electricity Expenditures	367	385	394	429	481	
Residential Electricity Expenditures	167	171	177	193	213	
Household Electricity Expenditures (2010 Dollars/Household)	1460	1291	1332	1326	1465	
Total Natural Gas Expenditures	163	186	190	228	234	
Electricity Sector Natural Gas Expenditures	39	45	48	65	67	
Non-Electricity Sector Natural Gas Expenditures	124	141	142	164	167	

Table A1. BCES12 and Reference Case Results (continued)

	2010	2025		2035	
		Reference	BCES12	Reference	BCES12
<b>CES Compliance</b>					
Alternative Compliance Payment (billion 2010 dollars)			0		36
Credits Required (percent of sales)			34		54
Credits Achieved (percent of sales)			31		43
Generation Achieved (percent of sales)			34		43
Total Electricity Sales (billion kilowatthours)	3,730	4,121	4,067	4,467	4,234
<b>Electric Power Sector Emissions</b>					
Sulfur Dioxide (million tons)	5.1	2.8	2.6	2.8	1.7
Nitrogen Oxide (million tons)	2.1	2.0	1.7	2.0	1.1
Mercury (tons)	35	24	19	24	11
Carbon Dioxide (million metric tons CO <sub>2</sub> )	2,271	2,234	1,789	2,383	1,346
<b>Macroeconomic</b>					
GDP (billion 2005 dollars)	13,088	19,176	19,135	24,639	24,508
Per Capita GDP (thousand 2005 dollars/person)	42.1	53.6	53.4	63.2	62.8
Employment, Non-Farm (million)	129.8	153.3	153.3	166.7	166.2
Employment, Manufacturing (million)	11.5	11.4	11.4	9.1	9.0