

Impacts of a 25-Percent Renewable Electricity Standard as Proposed in the American Clean Energy and Security Act Discussion Draft

Addendum: Projected Expenditure Impacts by Sector

Table A2 – Residential Energy Expenditures

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Reference Case											
Electricity											
Prices (cents/kwh)	11.07	11.19	11.26	11.23	11.23	11.23	11.25	11.37	11.51	11.65	11.77
Sales (billion kWh)	1476	1487	1505	1525	1550	1570	1593	1613	1634	1646	1662
Expenditures (billion dollars, 2007)	163	166	169	171	174	176	179	183	188	192	196
Natural Gas											
Prices (\$/thou. cu ft)	12.91	13.15	13.23	13.01	12.98	12.95	13.14	13.44	13.78	14.06	14.35
Sales (trillion cu ft)	4.9	4.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Expenditures (billion dollars, 2007)	63	64	64	63	64	64	65	66	68	69	70
Combined											
Expenditures (billion dollars, 2007)	226	230	234	235	238	240	244	249	256	260	265
RESFEC Case											
Electricity											
Prices (cents/kwh)	11.07	11.21	11.29	11.27	11.38	11.47	11.50	11.58	11.68	11.78	11.85
Sales (billion kWh)	1477	1487	1504	1524	1547	1563	1584	1603	1624	1636	1653
Expenditures (billion dollars, 2007)	163	167	170	172	176	179	182	186	190	193	196
Natural Gas											
Prices (\$/thou. cu ft)	12.88	13.14	13.17	12.94	12.88	12.77	12.95	13.21	13.55	14.04	14.28
Sales (trillion cu ft)	4.9	4.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Expenditures (billion dollars, 2007)	63	64	64	63	63	63	64	65	67	69	70
Combined											
Expenditures (billion dollars, 2007)	226	230	234	235	239	242	246	251	256	262	266
RESNEC Case											
Electricity											
Prices (cents/kwh)	11.06	11.19	11.31	11.34	11.42	11.52	11.53	11.58	11.67	11.79	11.85
Sales (billion kWh)	1477	1487	1503	1522	1545	1561	1581	1602	1623	1635	1651
Expenditures (billion dollars, 2007)	163	166	170	173	176	180	182	185	190	193	196
Natural Gas											
Prices (\$/thou. cu ft)	12.77	13.00	12.98	12.72	12.65	12.56	12.73	12.98	13.35	13.77	14.03
Sales (trillion cu ft)	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Expenditures (billion dollars, 2007)	62	63	63	62	62	62	63	64	66	68	69
Combined											
Expenditures (billion dollars, 2007)	226	230	233	235	239	242	245	250	256	260	264

Source: Energy Information Administration, National Energy Modeling System runs, STIMULUS.D041409A, WAXRPS.D041609A, AND WAXRPSNE.D041609C

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Addendum: Projected Expenditure Impacts by Sector

Table A3 – Commercial Energy Expenditures

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Reference Case											
Electricity											
Prices (cents/kwh)	9.42	9.55	9.64	9.62	9.62	9.60	9.61	9.72	9.87	9.99	10.12
Sales (billion kWh)	1620	1642	1664	1688	1714	1741	1768	1793	1818	1841	1864
Expenditures (billion dollars, 2007)	153	157	160	162	165	167	170	174	179	184	189
Natural Gas											
Prices (\$/thou. cu ft)	11.39	11.63	11.72	11.53	11.51	11.47	11.67	11.97	12.31	12.58	12.87
Sales (trillion cu ft)	3.2	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4
Expenditures (billion dollars, 2007)	37	38	38	38	38	38	39	41	42	43	44
Combined											
Expenditures (billion dollars, 2007)	190	194	198	200	203	206	209	215	221	227	233
RESFEC Case											
Electricity											
Prices (cents/kwh)	9.44	9.59	9.67	9.66	9.78	9.86	9.89	9.97	10.07	10.16	10.24
Sales (billion kWh)	1620	1641	1662	1686	1709	1732	1756	1780	1804	1828	1852
Expenditures (billion dollars, 2007)	153	157	161	163	167	171	174	177	182	186	190
Natural Gas											
Prices (\$/thou. cu ft)	11.36	11.62	11.65	11.45	11.41	11.28	11.47	11.73	12.07	12.56	12.79
Sales (trillion cu ft)	3.2	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.5
Expenditures (billion dollars, 2007)	37	38	38	38	38	38	39	40	41	43	44
Combined											
Expenditures (billion dollars, 2007)	190	195	199	200	205	209	213	218	223	229	234
RESNEC Case											
Electricity											
Prices (cents/kwh)	9.42	9.56	9.68	9.72	9.80	9.89	9.90	9.95	10.05	10.15	10.21
Sales (billion kWh)	1621	1642	1663	1685	1708	1730	1754	1779	1803	1827	1851
Expenditures (billion dollars, 2007)	153	157	161	164	167	171	174	177	181	185	189
Natural Gas											
Prices (\$/thou. cu ft)	11.25	11.47	11.46	11.23	11.17	11.08	11.24	11.49	11.87	12.28	12.53
Sales (trillion cu ft)	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.5
Expenditures (billion dollars, 2007)	36	37	37	37	37	38	38	40	41	43	44
Combined											
Expenditures (billion dollars, 2007)	189	194	198	201	205	209	212	217	222	228	233

Source: Energy Information Administration, National Energy Modeling System runs, STIMULUS.D041409A, WAXRPS.D041609A, AND WAXRPSNE.D041609C

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Addendum: Projected Expenditure Impacts by Sector

Table A4 – Industrial Energy Expenditures

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Reference Case											
Electricity											
Prices (cents/kwh)	6.42	6.51	6.59	6.59	6.59	6.59	6.60	6.69	6.81	6.92	7.02
Sales (billion kWh)	1020	1021	1018	1022	1025	1025	1020	1013	1004	995	986
Expenditures (billion dollars, 2007)	65	66	67	67	68	68	67	68	68	69	69
Natural Gas											
Prices (\$/thou. cu ft)	7.68	7.89	7.97	7.77	7.76	7.67	7.81	8.08	8.42	8.66	8.94
Sales (trillion cu ft)	6.4	6.4	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.3	6.3
Expenditures (billion dollars, 2007)	49	50	51	50	50	50	51	53	55	55	57
Combined											
Expenditures (billion dollars, 2007)	114	117	118	118	118	117	118	120	123	124	126
RESFEC Case											
Electricity											
Prices (cents/kwh)	6.42	6.53	6.61	6.61	6.71	6.79	6.81	6.88	6.96	7.03	7.07
Sales (billion kWh)	1018	1017	1013	1017	1020	1019	1013	1007	998	988	981
Expenditures (billion dollars, 2007)	65	66	67	67	68	69	69	69	69	69	69
Natural Gas											
Prices (\$/thou. cu ft)	7.65	7.88	7.91	7.70	7.64	7.46	7.59	7.83	8.17	8.66	8.85
Sales (trillion cu ft)	6.4	6.4	6.4	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.4
Expenditures (billion dollars, 2007)	49	50	51	50	50	49	50	52	54	56	57
Combined											
Expenditures (billion dollars, 2007)	114	117	118	117	119	118	119	121	123	126	126
RESNEC Case											
Electricity											
Prices (cents/kwh)	6.41	6.51	6.62	6.66	6.73	6.82	6.82	6.86	6.95	7.03	7.06
Sales (billion kWh)	1018	1018	1013	1016	1019	1017	1011	1006	997	987	979
Expenditures (billion dollars, 2007)	65	66	67	68	69	69	69	69	69	69	69
Natural Gas											
Prices (\$/thou. cu ft)	7.53	7.73	7.71	7.47	7.42	7.27	7.39	7.61	7.99	8.39	8.59
Sales (trillion cu ft)	6.4	6.4	6.4	6.5	6.6	6.6	6.6	6.7	6.7	6.6	6.6
Expenditures (billion dollars, 2007)	48	50	50	49	49	48	49	51	53	55	56
Combined											
Expenditures (billion dollars, 2007)	114	116	117	116	118	118	118	120	123	125	125

Source: Energy Information Administration, National Energy Modeling System runs, STIMULUS.D041409A, WAXRPS.D041609A, AND WAXRPSNE.D041609C