Residential sector key indicators and consumption (quadrillion Btu per year, unless otherwise noted) Table A4.

Key indicators and consumption			Re	eference cas	e			Annual growth 2012-2040 (percent)
	2011	2012	2020	2025	2030	2035	2040	
Key indicators			,					
Households (millions)								
Single-family	78.99	79.28	85.71	89.73	93.56	96.99	100.37	0.8%
Multifamily	28.13	28.24	30.55	32.18	33.98	35.82	37.61	1.0%
Mobile homes	6.58	6.41	5.70	5.46	5.29	5.14	5.03	-0.9%
Total	113.70	113.93	121.96	127.38	132.83	137.95	143.01	0.8%
Average house square footage	1,662	1,670	1,736	1,771	1,802	1,831	1,858	0.4%
Energy intensity								
(million Btu per household)								
Delivered energy consumption	99.0	91.5	88.1	84.6	81.5	78.7	76.5	-0.6%
Total energy consumption	188.2	176.4	167.1	161.6	156.8	152.8	150.2	-0.6%
(thousand Btu per square foot)								
Delivered energy consumption	59.6	54.8	50.7	47.8	45.2	43.0	41.2	-1.0%
Total energy consumption	113.2	105.6	96.3	91.2	87.0	83.5	80.9	-1.0%
Delivered energy consumption by fuel								
Purchased electricity	0.07	0.00	0.05	0.05	0.04	0.00	0.00	0.40/
Space heating	0.37	0.29	0.35	0.35	0.34	0.33	0.32	0.4%
Space cooling	0.83	0.85	0.89	0.98	1.07	1.16	1.25	1.4%
Water heating	0.44	0.45	0.47	0.49	0.50	0.50	0.51	0.5%
Refrigeration	0.38	0.38	0.38	0.38	0.38	0.40	0.41	0.3%
Cooking	0.11	0.11	0.12	0.12	0.13	0.14	0.15	1.1%
Clothes dryers	0.20	0.20	0.21	0.22	0.23	0.24	0.25	0.8%
Freezers	0.08	0.08	0.08	0.08	0.08	0.08	0.08	-0.1%
Lighting	0.64	0.64	0.44	0.39	0.35	0.30	0.28	-2.9%
Clothes washers <sup>1</sup>	0.03	0.03	0.03	0.02	0.02	0.02	0.02	-1.2%
Dishwashers <sup>1</sup>	0.10	0.10	0.10	0.10	0.10	0.11	0.12	0.6%
Televisions and related equipment <sup>2</sup>	0.33	0.33	0.33	0.33	0.35	0.37	0.39	0.5%
Computers and related equipment <sup>3</sup>	0.13	0.12	0.10	0.08	0.07	0.06	0.05	-3.0%
Furnace fans and boiler circulation pumps	0.12	0.09	0.12	0.12	0.12	0.12	0.12	0.8%
Other uses <sup>4</sup>	1.11	1.02	1.24	1.34	1.46	1.58	1.70	1.9%
Delivered energy	4.85	4.69	4.84	5.00	5.21	5.41	5.65	0.7%
Natural gas								
Space heating	3.09	2.51	2.82	2.76	2.69	2.62	2.54	0.0%
Space cooling	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.6%
Water heating	1.20	1.22	1.21	1.22	1.22	1.19	1.16	-0.2%
Cooking	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.2%
Clothes dryers	0.05	0.05 0.25	0.05	0.06	0.06	0.06	0.06	0.7%
Other uses <sup>5</sup> Delivered energy	0.25 <b>4.82</b>	0.25 <b>4.26</b>	0.24 <b>4.56</b>	0.23 <b>4.50</b>	0.22 <b>4.43</b>	0.22 <b>4.32</b>	0.21 <b>4.21</b>	-0.6% <b>0.0%</b>
Distillate fuel oil								
Space heating	0.46	0.44	0.42	0.38	0.34	0.31	0.29	-1.5%
Water heating	0.46	0.44	0.42	0.36	0.34	0.02	0.29	-1.5% -4.4%
Other uses <sup>6</sup>	0.00	0.00	0.03	0.03	0.02	0.02	0.02	-4.4%
Delivered energy	0.53	<b>0.51</b>	0.46	0.01	0.01	0.34	0.31	-0.0% -1.7%
Propane								
Space heating	0.37	0.37	0.30	0.28	0.26	0.25	0.24	-1.6%
Water heating	0.07	0.07	0.05	0.04	0.04	0.03	0.03	-3.3%
Cooking	0.03	0.03	0.03	0.03	0.04	0.03	0.03	-0.9%
Other uses <sup>6</sup>	0.03	0.03	0.05	0.05	0.02	0.02	0.02	1.5%
Delivered energy	0.51	0.51	0.42	0.40	0.03	0.36	0.35	-1.3%
Marketed renewables (wood) <sup>7</sup>	0.54	0.45	0.46	0.45	0.44	0.43	0.42	-0.3%
Kerosene	0.02	0.43	0.00	0.00	0.00	0.00	0.00	-2.5%
1/01030110	0.02	0.01	0.00	0.00	0.00	0.00	0.00	-2.

Table A4. Residential sector key indicators and consumption (continued)

(quadrillion Btu per year, unless otherwise noted)

Key indicators and consumption	Reference case							Annual growth
	2011	2012	2020	2025	2030	2035	2040	2012-2040 (percent)
Delivered energy consumption by end use	•	-	-	•				•
Space heating	4.84	4.07	4.36	4.22	4.09	3.95	3.81	-0.2%
Space cooling	0.85	0.88	0.91	1.00	1.09	1.18	1.27	1.3%
Water heating	1.77	1.79	1.77	1.78	1.78	1.74	1.71	-0.2%
Refrigeration	0.38	0.38	0.38	0.38	0.38	0.40	0.41	0.3%
Cooking	0.34	0.34	0.35	0.36	0.37	0.38	0.39	0.4%
Clothes dryers	0.25	0.25	0.27	0.28	0.29	0.30	0.31	0.8%
Freezers	0.08	0.08	0.08	0.08	0.08	0.08	0.08	-0.1%
Lighting	0.64	0.64	0.44	0.39	0.35	0.30	0.28	-2.9%
Clothes washers <sup>1</sup>	0.03	0.03	0.03	0.02	0.02	0.02	0.02	-1.2%
Dishwashers <sup>1</sup>	0.10	0.10	0.10	0.10	0.10	0.11	0.12	0.6%
Televisions and related equipment <sup>2</sup>	0.33	0.33	0.33	0.33	0.35	0.37	0.39	0.5%
Computers and related equipment <sup>3</sup>	0.13	0.12	0.10	0.08	0.07	0.06	0.05	-3.0%
Furnace fans and boiler circulation pumps	0.12	0.09	0.12	0.12	0.12	0.12	0.12	0.8%
Other uses <sup>8</sup>	1.40	1.31	1.53	1.63	1.74	1.86	1.98	1.5%
Delivered energy	11.26	10.42	10.74	10.77	10.83	10.86	10.94	0.2%
Electricity related losses	10.13	9.68	9.64	9.81	10.00	10.22	10.55	0.3%
Total energy consumption by end use								
Space heating	5.63	4.66	5.05	4.90	4.74	4.57	4.41	-0.2%
Space cooling	2.58	2.64	2.68	2.91	3.14	3.37	3.61	1.1%
Water heating	2.68	2.71	2.71	2.74	2.74	2.69	2.65	-0.1%
Refrigeration	1.17	1.16	1.12	1.12	1.12	1.15	1.19	0.1%
Cooking	0.56	0.56	0.59	0.60	0.62	0.64	0.66	0.6%
Clothes dryers	0.66	0.66	0.69	0.71	0.73	0.76	0.78	0.6%
Freezers	0.25	0.25	0.03	0.23	0.73	0.70	0.73	-0.3%
Lighting	1.97	1.95	1.31	1.16	1.02	0.22	0.23	-3.2%
Clothes washers <sup>1</sup>	0.10	0.10	0.08	0.07	0.06	0.06	0.79	-1.4%
Dishwashers <sup>1</sup>			0.08	0.07		0.00	0.00	0.4%
Televisions and related equipment <sup>2</sup>	0.31 1.03	0.31 1.02	0.29	0.29	0.30 1.02	1.07	1.11	0.4%
	0.39		0.96	0.99	0.21			
Computers and related equipment <sup>3</sup>		0.38				0.18	0.15	-3.3%
Furnace fans and boiler circulation pumps  Other uses <sup>8</sup>	0.36	0.29	0.34	0.34	0.34	0.34	0.34	0.6%
	3.71	3.42	4.01	4.27	4.55	4.84	5.16	1.5%
Total	21.39	20.10	20.38	20.58	20.83	21.09	21.48	0.2%
Nonmarketed renewables <sup>9</sup>								
Geothermal heat pumps	0.01	0.01	0.02	0.02	0.02	0.02	0.03	3.2%
Solar hot water heating	0.00	0.01	0.01	0.01	0.01	0.01	0.01	2.4%
Solar photovoltaic	0.02	0.02	0.10	0.12	0.14	0.18	0.22	8.3%
Wind	0.00	0.00	0.01	0.01	0.01	0.01	0.01	9.1%
Total	0.03	0.04	0.14	0.16	0.19	0.23	0.27	6.9%
Heating degree days <sup>10</sup>	4,258	3,712	4,015	3,945	3,877	3,810	3,745	0.0%
Cooling degree days <sup>10</sup>	1,481	1,514	1,488	1,530	1,572	1,614	1,656	0.3%

<sup>&</sup>lt;sup>1</sup>Does not include water heating portion of load.
<sup>2</sup>Includes televisions, set-top boxes, home theater systems, DVD players, and video game consoles.
<sup>3</sup>Includes desktop and laptop computers, monitors, and networking equipment.
<sup>4</sup>Includes small electric devices, heating elements, and motors not listed above. Electric vehicles are included in the transportation sector.
<sup>5</sup>Includes such appliances as outdoor grills, exterior lights, pool heaters, spa heaters, and backup electricity generators.
<sup>6</sup>Includes such appliances as pool heaters, spa heaters, and backup electricity generators.
<sup>7</sup>Includes wood used for primary and secondary heating in wood stoves or fireplaces as reported in the *Residential Energy Consumption Survey 2009*.
<sup>8</sup>Includes small electric devices, heating elements, outdoor grills, exterior lights, pool heaters, spa heaters, backup electricity generators, and motors not listed above. Electric vehicles are included in the transportation sector.
<sup>9</sup>Consumption determined by using the fossil fuel equivalent of 9,716 Btu per kilowatthour.
<sup>10</sup>See Table A5 for regional detail.
Btu = British thermal unit.

- - Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2011 and 2012 are model results and may differ from official EIA data reports.

reports.

Sources: 2011 and 2012 consumption based on: U.S. Energy Information Administration (EIA), Monthly Energy Review, DOE/EIA-0035(2013/09) (Washington, DC, September 2013). 2011 and 2012 degree days based on state-level data from the National Oceanic and Atmospheric Administration's Climatic Data Center and Climate Prediction Center. Projections: EIA, AEO2014 National Energy Modeling System run REF2014.D102413A.