

**Table 1.11 Electricity Net Generation From Renewable Energy by Energy Use Sector and Energy Source, 2004 - 2008**

(Thousand Kilowatthours)

| Sector/Source                       | 2004        | 2005        | 2006        | 2007        | 2008        |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Total</b>                        | 351,484,632 | 357,650,653 | 385,771,908 | 352,747,486 | 381,043,759 |
| <b>Biomass</b>                      | 53,537,453  | 54,276,810  | 54,860,621  | 55,538,578  | 55,033,612  |
| Waste                               | 15,420,570  | 15,420,393  | 16,098,525  | 16,524,554  | 17,733,759  |
| Landfill Gas                        | 5,128,425   | 5,142,111   | 5,677,040   | 6,157,750   | 7,156,340   |
| MSW Biogenic <sup>1</sup>           | 8,150,974   | 8,330,471   | 8,477,571   | 8,303,838   | 8,096,801   |
| Other Biomass <sup>2</sup>          | 2,141,171   | 1,947,810   | 1,943,913   | 2,062,966   | 2,480,617   |
| Wood and Derived Fuels <sup>3</sup> | 38,116,883  | 38,856,417  | 38,762,096  | 39,014,024  | 37,299,853  |
| Geothermal                          | 14,810,975  | 14,691,745  | 14,568,029  | 14,637,213  | 14,951,348  |
| Hydroelectric Conventional          | 268,417,308 | 270,321,255 | 289,246,416 | 247,509,974 | 254,831,385 |
| Solar Thermal/PV                    | 575,155     | 550,294     | 507,706     | 611,793     | 864,315     |
| Wind                                | 14,143,741  | 17,810,549  | 26,589,137  | 34,449,927  | 55,363,100  |
| <b>Commercial</b>                   | 1,680,155   | 1,758,789   | 1,712,691   | 1,691,439   | 1,614,986   |
| Biomass                             | 1,575,188   | 1,672,752   | 1,619,245   | 1,614,160   | 1,554,948   |
| Waste                               | 1,561,794   | 1,656,755   | 1,598,646   | 1,598,799   | 1,533,645   |
| Landfill Gas                        | 172,029     | 217,632     | 172,590     | 202,547     | 233,636     |
| MSW Biogenic <sup>1</sup>           | 945,344     | 953,093     | 955,910     | 962,496     | 910,908     |
| Other Biomass <sup>2</sup>          | 444,421     | 486,031     | 470,146     | 433,756     | 389,101     |
| Wood and Derived Fuels <sup>3</sup> | 13,394      | 15,997      | 20,599      | 15,361      | 21,303      |
| Hydroelectric Conventional          | 104,967     | 86,037      | 93,446      | 77,279      | 59,957      |
| Solar Thermal/PV                    | -           | -           | -           | -           | 80          |
| <b>Industrial</b>                   | 32,412,566  | 32,198,528  | 31,871,511  | 30,508,807  | 29,138,172  |
| Biomass                             | 29,164,073  | 29,003,087  | 28,972,463  | 28,918,826  | 27,462,283  |
| Waste                               | 796,988     | 732,553     | 572,447     | 631,452     | 821,394     |
| Landfill Gas                        | 120,018     | 113,155     | 28,786      | 27,087      | 21,494      |
| MSW Biogenic <sup>1</sup>           | 30,213      | 34,441      | 34,541      | 39,782      | -           |
| Other Biomass <sup>2</sup>          | 646,757     | 584,957     | 509,120     | 564,583     | 799,900     |
| Wood and Derived Fuels <sup>3</sup> | 28,367,085  | 28,270,534  | 28,400,016  | 28,287,374  | 26,640,889  |
| Hydroelectric Conventional          | 3,248,493   | 3,195,441   | 2,899,048   | 1,589,981   | 1,675,889   |
| Solar Thermal/PV                    | -           | -           | -           | -           | -           |
| <b>Electric Power<sup>4</sup></b>   | 317,391,910 | 323,693,336 | 352,187,707 | 320,547,239 | 350,290,602 |
| Biomass                             | 22,798,191  | 23,600,971  | 24,268,913  | 25,005,592  | 26,016,380  |
| Waste                               | 13,061,787  | 13,031,084  | 13,927,432  | 14,294,304  | 15,378,719  |
| Landfill Gas                        | 4,836,377   | 4,811,325   | 5,475,664   | 5,928,117   | 6,901,211   |
| MSW Biogenic <sup>1</sup>           | 7,175,417   | 7,342,938   | 7,487,120   | 7,301,560   | 7,185,893   |
| Other Biomass <sup>2</sup>          | 1,049,993   | 876,822     | 964,648     | 1,064,627   | 1,291,615   |
| Wood and Derived Fuels <sup>3</sup> | 9,736,404   | 10,569,886  | 10,341,481  | 10,711,288  | 10,637,661  |
| Geothermal                          | 14,810,975  | 14,691,745  | 14,568,029  | 14,637,213  | 14,951,348  |
| Hydroelectric Conventional          | 265,063,848 | 267,039,777 | 286,253,922 | 245,842,714 | 253,095,539 |
| Solar Thermal/PV                    | 575,155     | 550,294     | 507,706     | 611,793     | 864,235     |
| Wind                                | 14,143,741  | 17,810,549  | 26,589,137  | 34,449,927  | 55,363,100  |

<sup>1</sup>Includes paper and paper board, wood, food, leather, textiles and yard trimmings.

<sup>2</sup>Agriculture byproducts/crops, sludge waste, and other biomass solids, liquids and gases.

<sup>3</sup>Black liquor, and wood/wood waste solids and liquids.

<sup>4</sup>The electric power sector comprises electricity-only and combined-heat-power (CHP) plants within North American Classification System (NAICS) 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

MSW = Municipal Solid Waste.

PV = Photovoltaic.

- = No data reported.

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

Data revisions are discussed in the Highlights section.

Revisions to biomass removed MSW non-biogenic and tires from renewable waste energy.

**Source:** Electric Power: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report," and predecessor forms: Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."