

Table 1.11 Electricity net generation from renewable energy by energy-use sector and energy source, 2005 – 2009

(thousand kilowatthours)

Sector/Source	2005	2006	2007	2008	2009
Total	357,650,653	385,771,908	352,747,486	380,932,388	417,723,797
Biomass	54,276,810	54,860,621	55,538,578	55,033,612	54,492,734
Waste	15,420,393	16,098,525	16,524,554	17,733,759	18,442,596
Landfill Gas	5,142,111	5,677,040	6,157,750	7,156,340	7,924,211
MSW Biogenic ¹	8,330,471	8,477,571	8,303,838	8,096,801	8,057,613
Other Biomass ²	1,947,810	1,943,913	2,062,966	2,480,617	2,460,771
Wood and Derived Fuels ³	38,856,417	38,762,096	39,014,024	37,299,853	36,050,138
Geothermal	14,691,745	14,568,029	14,637,213	14,839,977	15,008,658
Hydroelectric Conventional	270,321,255	289,246,416	247,509,974	254,831,385	273,445,094
Solar Thermal/PV	550,294	507,706	611,793	864,315	891,179
Wind	17,810,549	26,589,137	34,449,927	55,363,100	73,886,132
Commercial	1,758,789	1,712,691	1,691,439	1,614,986	1,839,466
Biomass	1,672,752	1,619,245	1,614,160	1,554,948	1,768,350
Waste	1,656,755	1,598,646	1,598,799	1,533,645	1,748,284
Landfill Gas	217,632	172,590	202,547	233,636	317,508
MSW Biogenic ¹	953,093	955,910	962,496	910,908	1,044,576
Other Biomass ²	486,031	470,146	433,756	389,101	386,200
Wood and Derived Fuels ³	15,997	20,599	15,361	21,303	20,066
Hydroelectric Conventional	86,037	93,446	77,279	59,957	70,866
Solar Thermal/PV	-	-	-	80	43
Wind	-	-	-	-	208
Industrial	32,198,528	31,871,511	30,508,807	29,138,172	27,900,961
Biomass	29,003,087	28,972,463	28,918,826	27,462,283	26,032,625
Waste	732,553	572,447	631,452	821,394	740,469
Landfill Gas	113,155	28,786	27,087	21,494	22,365
MSW Biogenic ¹	34,441	34,541	39,782	-	-
Other Biomass ²	584,957	509,120	564,583	799,900	718,103
Wood and Derived Fuels ³	28,270,534	28,400,016	28,287,374	26,640,889	25,292,157

See footnotes at end of table.

Table 1.11 Electricity net generation from renewable energy by energy-use sector and energy source, 2005 – 2009 (cont.)

(thousand kilowatthours)

Sector/Source	2005	2006	2007	2008	2009
Hydroelectric Conventional	3,195,441	2,899,048	1,589,981	1,675,889	1,868,336
Solar Thermal/PV	-	-	-	-	-
Electric Power⁴	323,693,336	352,187,707	320,547,239	350,179,231	387,983,371
Biomass	23,600,971	24,268,913	25,005,592	26,016,380	26,691,759
Waste	13,031,084	13,927,432	14,294,304	15,378,719	15,953,844
Landfill Gas	4,811,325	5,475,664	5,928,117	6,901,211	7,584,338
MSW Biogenic ¹	7,342,938	7,487,120	7,301,560	7,185,893	7,013,037
Other Biomass ²	876,822	964,648	1,064,627	1,291,615	1,356,468
Wood and Derived Fuels ³	10,569,886	10,341,481	10,711,288	10,637,661	10,737,915
Geothermal	14,691,745	14,568,029	14,637,213	14,839,977	15,008,658
Hydroelectric Conventional	267,039,777	286,253,922	245,842,714	253,095,539	271,505,893
Solar Thermal/PV	550,294	507,706	611,793	864,235	891,137
Wind	17,810,549	26,589,137	34,449,927	55,363,100	73,885,924

¹Includes paper and paper board, wood, food, leather, textiles and yard trimmings.

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

³Black liquor, and wood/wood waste solids and liquids.

⁴The 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.

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."