

Table 8b. U.S. Renewable Electricity Generation and Capacity
 U.S. Energy Information Administration | Short-Term Energy Outlook - April 2019

	2018				2019				2020				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2018	2019	2020
Renewable Energy Electric Generating Capacity (megawatts, end of period)															
Electric Power Sector (a)															
Biomass	7,249	7,222	7,214	7,156	7,158	7,295	7,295	7,322	7,322	7,324	7,324	7,367	7,156	7,322	7,367
Waste	4,199	4,171	4,164	4,160	4,162	4,141	4,141	4,168	4,168	4,170	4,170	4,171	4,160	4,168	4,171
Wood	3,051	3,051	3,051	2,996	2,996	3,154	3,154	3,154	3,154	3,154	3,154	3,196	2,996	3,154	3,196
Conventional Hydroelectric	79,538	79,506	79,515	79,636	79,646	79,679	79,582	79,601	79,689	79,707	79,829	79,887	79,636	79,601	79,887
Geothermal	2,475	2,475	2,475	2,478	2,485	2,485	2,485	2,485	2,485	2,485	2,575	2,600	2,478	2,485	2,600
Large-Scale Solar (b)	28,017	28,870	29,384	31,597	32,656	33,560	34,107	36,700	37,524	40,625	40,955	43,819	31,597	36,700	43,819
Wind	88,657	88,781	89,790	94,238	96,872	98,701	100,546	106,336	107,824	108,574	109,408	115,735	94,238	106,336	115,735
Other Sectors (c)															
Biomass	6,655	6,643	6,639	6,638	6,638	6,651	6,653	6,667	6,667	6,667	6,667	6,667	6,638	6,667	6,667
Waste	876	875	871	871	871	871	873	887	887	887	887	887	871	887	887
Wood	5,779	5,768	5,768	5,768	5,768	5,781	5,781	5,781	5,781	5,781	5,781	5,781	5,768	5,781	5,781
Conventional Hydroelectric	284	284	284	284	290	290	290	290	290	289	289	289	284	290	289
Large-Scale Solar (b)	352	358	366	371	373	379	379	379	379	382	382	382	371	379	382
Small-Scale Solar (d)	17,048	17,887	18,712	19,521	20,545	21,450	22,409	23,420	24,488	25,612	26,802	28,058	19,521	23,420	28,058
Residential Sector	10,155	10,660	11,179	11,664	12,324	12,842	13,394	13,979	14,602	15,259	15,961	16,705	11,664	13,979	16,705
Commercial Sector	5,501	5,778	6,026	6,286	6,599	6,925	7,268	7,628	8,007	8,404	8,822	9,261	6,286	7,628	9,261
Industrial Sector	1,391	1,449	1,507	1,571	1,621	1,683	1,747	1,812	1,879	1,948	2,019	2,092	1,571	1,812	2,092
Wind	113	110	116	116	116	116	116	116	116	116	116	116	116	116	116
Renewable Electricity Generation (thousand megawatthours per day)															
Electric Power Sector (a)															
Biomass	92	85	86	82	87	86	94	89	89	87	95	90	86	89	90
Waste	52	49	48	49	48	48	49	49	48	49	49	49	50	48	49
Wood	40	35	37	33	40	38	45	41	41	38	45	41	37	41	41
Conventional Hydroelectric	852	939	692	698	775	903	718	678	749	864	738	684	795	768	758
Geothermal	46	44	46	46	46	45	45	45	45	45	45	47	46	45	45
Large-Scale Solar (b)	140	230	219	133	156	244	242	169	178	285	292	204	180	203	240
Wind	868	821	581	743	884	922	682	951	1,024	1,039	760	1,060	752	860	970
Other Sectors (c)															
Biomass	87	86	86	84	86	86	86	84	86	86	86	84	86	85	85
Waste	78	77	77	75	77	77	77	75	77	77	77	75	77	77	77
Wood	9	9	8	9	9	9	8	9	9	9	8	9	9	9	9
Conventional Hydroelectric	5	5	4	5	4	5	4	5	4	5	4	5	5	4	4
Large-Scale Solar (b)	1	3	3	1	2	3	3	3	3	3	3	3	2	2	3
Small-Scale Solar (d)	64	97	96	66	78	116	117	82	93	139	140	98	81	98	117
Residential Sector	37	57	56	38	45	69	69	48	54	81	82	57	47	58	69
Commercial Sector	22	32	32	22	26	38	38	27	32	46	46	32	27	32	39
Industrial Sector	6	8	9	6	7	10	10	7	8	11	12	8	7	8	10
Wind	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

-- = no data available

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

(a) Power plants larger than or equal to one megawatt in size that are operated by electric utilities or independent power producers.

(b) Solar thermal and photovoltaic generating units at power plants larger than or equal to one megawatt.

(c) Businesses or individual households not primarily engaged in electric power production for sale to the public, whose generating capacity is at least one megawatt (except for small-scale solar photovoltaic data, which consists of systems smaller than one megawatt).

(d) Solar photovoltaic systems smaller than one megawatt, as measured in alternating current.

Historical data: Latest data available from EIA databases supporting the Electric Power Monthly, DOE/EIA-0226.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA-860M database, EIA-826 Solar PV database, and EIA Regional Short-Term Energy Model.