

Utility Renewable Generation by Type and County: 2022

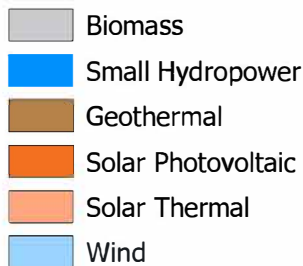
73,912 GWh

Renewable Electricity
Produced in California

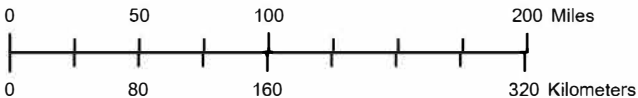
Generation in GWh

Biomass	5,366
Geothermal	11,110
Small Hydro	3,005
Solar Photovoltaic	38,391
Solar Thermal	2,102
Wind	13,938

Type of Renewable



Energy generation data and map are from the California Energy Commission and include utility scale power plants. Plants of any type below 1 MW (e.g. residential solar) are not included. Hydroelectric plants of 30 MW and less are considered renewable energy sources in California. Hydroelectric plants over 30 MW are non-renewable. Counties without pie symbols had no utility scale renewable electric generation for the year. Data is for 2022 and is current as of August 4, 2023. Projection: **NAD** 1983 (2011) California (Teale) Albers (Meters). For more information, contact Gordon Huang at qfergen@energy.ca.gov or John Hingtgen at wgrshelp@energy.ca.gov.



Renewable Electrical Generation in Gigawatt Hours (GWh)

County	Biomass	Geothermal	Small Hydro	Solar Photovoltaic	Solar Thermal	Wind	Total
Alameda	114	-	-	29	-	869	1,012
Amador	0	-	76	2	-	-	78
Butte	14	-	165	15	-	-	194
Calaveras	-	-	96	3	-	-	99
Colusa	145	-	-	-	-	-	145
Contra Costa	24	-	-	70	-	99	194
El Dorado	-	-	104	-	-	-	104
Fresno	138	-	19	2,173	-	-	2,330
Glenn	-	-	5	4	-	-	8
Humboldt	143	-	-	16	-	-	158
Imperial	-	3,472	228	4,701	-	363	8,763
Inyo	-	1,126	160	-	-	-	1,286
Kern	186	-	149	10,230	-	7,869	18,434
Kings	-	-	-	3,678	-	-	3,678
Lake	-	1,328	0	5	-	-	1,333
Lassen	176	-	17	6	-	-	200
Los Angeles	804	-	89	3,022	-	5	3,919
Madera	53	-	104	155	-	-	312
Marin	20	-	-	4	-	-	24
Mariposa	-	-	15	-	-	-	15
Mendocino	-	-	2	12	-	-	15
Merced	51	-	12	843	-	10	916
Mono	-	207	53	-	-	-	260
Monterey	53	-	-	313	-	34	400
Napa	-	-	-	3	-	-	3
Nevada	-	-	232	-	-	-	232
Orange	492	-	7	5	-	-	505
Placer	302	-	184	8	-	-	493
Plumas	181	-	2	-	-	-	183
Riverside	292	-	45	6,165	615	1,305	8,422
Sacramento	107	-	46	526	-	-	679
San Benito	-	-	-	329	-	-	329
San Bernardino	-	-	18	2,054	1,487	7	3,566
San Diego	137	-	39	358	-	499	1,033
San Francisco	1	-	-	22	-	-	23
San Joaquin	410	-	11	51	-	4	477
San Luis Obispo	11	-	1	2,259	-	-	2,271
San Mateo	88	-	-	-	-	-	88
Santa Barbara	2	-	-	129	-	-	131
Santa Clara	11	-	-	49	-	-	59
Santa Cruz	26	-	-	2	-	-	28
Shasta	711	-	157	15	-	276	1,159
Sierra	-	-	21	-	-	-	21
Siskiyou	34	-	232	-	-	-	266
Solano	75	-	-	64	-	2,595	2,733
Sonoma	32	4,978	0	22	-	-	5,032
Stanislaus	126	-	14	201	-	-	342
Sutter	-	-	-	4	-	-	4
Tehama	-	-	22	31	-	2	54
Trinity	-	-	14	-	-	-	14
Tulare	9	-	14	780	-	-	804
Tuolumne	167	-	615	7	-	-	789
Ventura	6	-	0	6	-	-	12
Yolo	201	-	36	18	-	2	256
Yuba	26	-	1	2	-	-	29
Total	5,366	11,110	3,005	38,391	2,102	13,938	73,912