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California Hydroelectric Statistics and Data

In 2019, hydro-produced electricity used by California totaled nearly 38,494 gigawatt-hours (GWh), or 19.21 percent of California's in-state generation portfolio. A total of 271 hydroelectric facilities with an installed capacity of 14,038 megawatts (MW). The amount of hydroelectricity produced varies each year and is largely dependent on snowmelt runoff and rainfall. The annual average hydroelectric generation from 1983 through 2019 is 34,476.3 GWh.

Hydro facilities in California fall into one of two categories. Facilities smaller than 30 MW capacity are generally considered an eligible renewable energy resource and are referred to as small hydro. These small hydro facilities must be certified for the net MWh to count according to renewable energy portfolio standards. There are a few cases where some hydro facilities larger than 30 MW may also be eligible under specific eligibility criteria. All other hydro facilities are referred to as large hydro.



Photo by California Department of Water Resources

One of those hydro facilities is the Edward Hyatt Power Plant on Oroville Dam, pictured on the right. According to the [Calif. Dept. of Water Resources](#), the "Hyatt Power Plant was constructed in the bedrock below Lake Oroville. A cavern the size of two football fields was dug out to house the facility." The Hyatt Power Plant is a large hydro facility and is part of California's [State Water Project](#), which is the largest state-built water and power development and conveyance system in the United States. Hyatt is the fourth largest energy producer of all the hydroelectric facilities in California.

Contact: [Michael Nyberg](#)

Small Hydroelectricity Production

Go to a Different Year

Year	Company Name	EIA Plant ID	CEC Plant ID	Plant Name	State	Capacity (MW)	Gross MWh	Net MWh
2019	Big Creek Water Works Ltd	10282	H0037	Big Creek Water Works	CA	5.0	8,041	8,041
2019	Calaveras County Water District	50755	H0073	Hogan	CA	3.0	9,920	9,920
2019	California Department of Water Resources	905	H0058	Alamo	CA	19.7	63,617	63,011
2019	California Department of Water Resources	7129	H0511	Thermalito Diversion Dam	CA	3.0	16,235	16,182

2019	Calleguas Municipal Water District	56125	H0076	Springville Reservoir	CA	1.0	816	816
2019	Calleguas Municipal Water District	50375	H0078	East Portal Generator	CA	1.3	5,577	5,577
2019	City of Escondido	457	H0021	Bear Valley	CA	1.5	3,389	3,389
2019	City of Pasadena	6449	H0014	Azusa	CA	3.0	0	0
2019	City of Redding Electric Utility	7189	H0564	Whiskeytown	CA	3.5	25,779	25,587
2019	City of Ukiah	7489	H0283	Lake Mendocino	CA	3.5	13,894	13,804
2019	Desert Water Agency	10162	H0136	Whitewater Hydroelectric Plant	CA	1.4	4,005	4,005
2019	East Bay Municipal Utility District (EBMUD)	537	H0080	Camanche	CA	10.8	61,766	61,766
2019	East Bay Municipal Utility District (EBMUD)	376	H0380	Pardee	CA	23.6	170,923	170,923
2019	El Dorado Hydro	55009	H0168	Montgomery Creek Hydro	CA	2.6	18,148	18,148
2019	El Dorado Irrigation District	238	H0167	El Dorado	CA	20.0	85,901	85,572
2019	Friant Power Authority	50393	H0198	Friant-Kern Hydro Facility (River Outlet Madera Canal F-K)	CA	30.6	128,141	126,781
2019	Friant Power Authority	Missing	H0626	Quinten Luallen	CA	7.3	48,053	47,778
2019	Humboldt Bay Municipal Water District	10128	H0241	Gosselin Hydroelectric Plant	CA	2.0	5,486	5,484
2019	Hydrodynamics	10882	H0321	Hatchet Creek Project	CA	7.0	23,910	23,910
2019	Hydrodynamics	10881	H0322	Roaring Creek	CA	2.0	7,858	7,858
2019	Hydrodynamics	10880	H0323	Bidwell Ditch	CA	2.0	7,583	7,583
2019	Hypower Inc	50350	H0192	Forks of Butte Hydro Project	CA	14.5	51,486	51,486
2019	Imperial Irrigation District	585	H0147	Drop 1	CA	5.9	8,560	8,242
2019	Imperial Irrigation District	385	H0149	Drop 2	CA	10.0	40,342	40,000
2019	Imperial Irrigation District	386	H0150	Drop 3	CA	9.8	41,214	41,002
2019	Imperial Irrigation District	387	H0151	Drop 4	CA	19.6	85,671	84,949
2019	Imperial Irrigation District	314	H0152	Drop 5	CA	4.0	10,466	10,381

2019	Imperial Irrigation District	586	H0160	East Highline	CA	2.4	3,318	3,235
2019	Imperial Irrigation District	388	H0385	Pilot Knob	CA	33.0	23,897	23,566
2019	Isabella Partners	10139	H0094	Isabella	CA	13.9	45,614	45,614
2019	Kaweah River Power Authority	54343	H0262	Terminus Hydroelectric Project	CA	20.0	68,314	66,652
2019	Los Angeles County Flood Control District	54017	H0442	San Gabriel Hydroelectric Project	CA	5.0	9,151	9,151
2019	Los Angeles Department of Water & Power (LADWP)	392	H0039	Castaic Efficiency (Small Hydro)	CA	9.0	5,360	5,360
2019	Los Angeles Department of Water & Power (LADWP)	391	H0040	Big Pine	CA	3.2	160	160
2019	Los Angeles Department of Water & Power (LADWP)	393	H0110	Control Gorge	CA	37.5	80,640	80,269
2019	Los Angeles Department of Water & Power (LADWP)	394	H0116	Cottonwood	CA	1.5	1,028	1,028
2019	Los Angeles Department of Water & Power (LADWP)	395	H0142	Division Creek	CA	0.6	0	0
2019	Los Angeles Department of Water & Power (LADWP)	396	H0189	Foothill	CA	11.0	0	-86
2019	Los Angeles Department of Water & Power (LADWP)	397	H0193	Franklin	CA	2.0	0	-3
2019	Los Angeles Department of Water & Power (LADWP)	398	H0216	Haiwee	CA	6.4	0	-104
2019	Los Angeles Department of Water & Power (LADWP)	401	H0328	Middle Gorge	CA	37.5	95,210	94,972
2019	Los Angeles Department of Water & Power (LADWP)	402	H0394	Pleasant Valley	CA	3.2	10,300	10,229
2019	Los Angeles Department of Water & Power (LADWP)	403	H0438	San Fernando	CA	6.4	11,427	11,281
2019	Los Angeles Department of Water & Power (LADWP)	6480	H0440	San Francisquito 2	CA	46.0	78,710	78,443
2019	Los Angeles Department of Water & Power (LADWP)	6479	H0441	San Francisquito 1	CA	69.4	259,019	256,714
2019	Los Angeles Department of Water & Power (LADWP)	7077	H0467	Sawtelle	CA	0.6	0	0

2019	Los Angeles Department of Water & Power (LADWP)	407	H0536	Upper Gorge	CA	37.5	97,380	97,096
2019	Los Angeles Department of Water & Power (LADWP)	57854	H0616	North Hollywood Pumping Plant	CA	1.0	0	0
2019	Lower Tule River Irrigation District	10222	H0503	Success Power Project	CA	1.4	3,829	3,638
2019	Madera-Chowchilla Water Power Authority	50322	H0310	Madera Canal (Station 980 1174 1302 1923)	CA	3.7	10,024	10,024
2019	Malacha Hydro Ltd Partnership	10458	H0311	Muck Valley Hydroelectric	CA	29.9	86,135	83,310
2019	Merced Irrigation District	410	H0316	McSwain	CA	9.0	47,225	46,385
2019	Merced Irrigation District	428	H0325	Merced ID (Parker)	CA	2.7	4,340	4,321
2019	Metropolitan Water District	480	H0114	Corona	CA	2.8	3,623	3,623
2019	Metropolitan Water District	483	H0119	Coyote Creek	CA	3.1	0	0
2019	Metropolitan Water District	745	H0174	Etiwanda	CA	23.9	66,132	66,132
2019	Metropolitan Water District	6645	H0188	Foothill Feeder	CA	9.0	44,336	44,336
2019	Metropolitan Water District	6643	H0211	Greg Avenue	CA	1.0	0	0
2019	Metropolitan Water District	6644	H0282	Lake Mathews	CA	4.9	3,733	3,733
2019	Metropolitan Water District	481	H0382	Perris	CA	7.9	10,631	10,631
2019	Metropolitan Water District	484	H0408	Red Mountain	CA	5.9	0	0
2019	Metropolitan Water District	482	H0412	Rio Hondo	CA	1.9	1	1
2019	Metropolitan Water District	6646	H0437	San Dimas Hydro Recovery Plant	CA	9.9	36,200	36,200
2019	Metropolitan Water District	316	H0472	Sepulveda Canyon	CA	8.5	12,665	12,665
2019	Metropolitan Water District	479	H0509	Temescal	CA	2.8	1,691	1,691
2019	Metropolitan Water District	487	H0539	Valley View	CA	4.1	3,320	3,320
2019	Metropolitan Water District	72	H0541	Venice	CA	10.1	0	0
2019	Metropolitan Water District	6647	H0577	Yorba Linda	CA	5.1	18,937	18,937
2019	Metropolitan Water District	7942	H0611	Diamond Valley Lake (Pumping-Generating)	CA	29.7	18,104	18,104

2019	Monterey County Water Resources Agency	50352	H0341	Nacimiento Hydro Project	CA	4.4	13,218	13,218
2019	Nelson Creek Power Inc	50223	H0349	Nelson Creek	CA	1.2	2,590	2,572
2019	Nevada Irrigation District	846	H0054	Combie South (3 @ 500kW = 1.5MW)	CA	1.5	7,932	7,918
2019	Nevada Irrigation District	413	H0157	Dutch Flat 2	CA	27.3	100,631	100,250
2019	Nevada Irrigation District	50546	H0351	Bowman	CA	3.6	14,279	14,275
2019	Nevada Irrigation District	34	H0424	Rollins	CA	13.5	75,738	75,724
2019	Norman Ross Burgess	54308	H0512	Three Forks Water Power Project	CA	1.3	7,926	7,703
2019	Northbrook Power Management LLC	10253	H0226	Lower Haypress Hydroelectric	CA	5.0	6,202	6,202
2019	Northbrook Power Management LLC	54653	H0427	Kanaka	CA	1.1	0	0
2019	Northbrook Power Management LLC	54654	H0428	Kekawaka	CA	4.9	0	0
2019	Northbrook Power Management LLC	10253	H0623	Middle Haypress Hydroelectric	CA	5.0	9,303	9,303
2019	Northern California Power Agency	3247	H0209	Graeagle	CA	0.4	2,788	2,547
2019	Northern California Power Agency	54554	H0356	Spicer	CA	6.0	25,931	24,577
2019	Not Available	7507	H0362	Deadwood Creek	CA	2.0	4,893	4,893
2019	Not Available	Missing	H0547	Baker Station Hydro	CA	1.5	950	950
2019	Olcese Water District	50037	H0367	Rio Bravo Hydroelectric	CA	14.0	39,665	39,665
2019	Pacific Gas & Electric (PG&E)	214	H0005	Alta	CA	1.0	3,401	3,395
2019	Pacific Gas & Electric (PG&E)	224	H0092	Centerville	CA	6.4	0	0
2019	Pacific Gas & Electric (PG&E)	225	H0096	Chili Bar	CA	8.1	35,113	35,101
2019	Pacific Gas & Electric (PG&E)	227	H0106	Coleman	CA	13.0	41,177	41,175
2019	Pacific Gas & Electric (PG&E)	229	H0118	Cow Creek	CA	2.0	4,477	4,469
2019	Pacific Gas & Electric (PG&E)	230	H0120	Crane Valley	CA	0.9	970	960

2019	Pacific Gas & Electric (PG&E)	232	H0130	DeSabra	CA	18.5	54,574	54,558
2019	Pacific Gas & Electric (PG&E)	233	H0133	Deer Creek	CA	5.7	16,198	16,179
2019	Pacific Gas & Electric (PG&E)	237	H0156	Dutch Flat #1	CA	22.0	66,987	64,327
2019	Pacific Gas & Electric (PG&E)	241	H0217	Halsey	CA	11.0	41,227	41,226
2019	Pacific Gas & Electric (PG&E)	242	H0218	Hamilton Branch	CA	4.9	0	0
2019	Pacific Gas & Electric (PG&E)	243	H0221	Hat Creek #1	CA	8.5	34,419	34,325
2019	Pacific Gas & Electric (PG&E)	244	H0222	Hat Creek #2	CA	8.5	43,085	43,077
2019	Pacific Gas & Electric (PG&E)	248	H0244	Inskip	CA	8.0	0	0
2019	Pacific Gas & Electric (PG&E)	250	H0265	Kerckhoff PH 1	CA	25.2	0	0
2019	Pacific Gas & Electric (PG&E)	7911	H0267	Kern Canyon	CA	11.5	0	0
2019	Pacific Gas & Electric (PG&E)	253	H0271	Kilarc	CA	3.0	2,252	2,213
2019	Pacific Gas & Electric (PG&E)	255	H0287	Lime Saddle	CA	2.0	0	0
2019	Pacific Gas & Electric (PG&E)	258	H0324	Merced Falls	CA	3.5	12,588	12,492
2019	Pacific Gas & Electric (PG&E)	632	H0357	Newcastle	CA	11.5	21,389	21,262
2019	Pacific Gas & Electric (PG&E)	626	H0364	Oak Flat	CA	1.3	4,310	4,295
2019	Pacific Gas & Electric (PG&E)	264	H0383	Phoenix	CA	2.0	6,433	6,423
2019	Pacific Gas & Electric (PG&E)	274	H0401	Potter Valley	CA	9.3	18,871	18,833
2019	Pacific Gas & Electric (PG&E)	278	H0448	San Joaquin #1A	CA	0.4	0	0
2019	Pacific Gas & Electric (PG&E)	276	H0449	San Joaquin #2	CA	3.2	0	0
2019	Pacific Gas & Electric (PG&E)	277	H0450	San Joaquin #3	CA	4.0	0	0
2019	Pacific Gas & Electric (PG&E)	280	H0486	South	CA	7.0	24,950	24,950
2019	Pacific Gas & Electric (PG&E)	281	H0490	Spaulding #1	CA	7.0	9,170	9,105
2019	Pacific Gas & Electric (PG&E)	282	H0491	Spaulding #2	CA	4.4	5,644	5,628
2019	Pacific Gas & Electric (PG&E)	283	H0492	Spaulding #3	CA	5.8	27,523	27,510
2019	Pacific Gas & Electric (PG&E)	284	H0495	Spring Gap	CA	7.0	34,666	34,662
2019	Pacific Gas & Electric (PG&E)	714	H0518	Toadtown	CA	1.3	4,332	4,322

2019	Pacific Gas & Electric (PG&E)	289	H0523	Tule	CA	6.4	0	0
2019	Pacific Gas & Electric (PG&E)	290	H0545	Volta #1	CA	9.0	48,300	48,300
2019	Pacific Gas & Electric (PG&E)	180	H0546	Volta #2	CA	1.0	4,534	4,534
2019	Pacific Gas & Electric (PG&E)	291	H0558	West Point	CA	14.0	77,999	77,975
2019	Pacific Gas & Electric (PG&E)	292	H0569	Wise	CA	17.1	71,429	71,371
2019	Pacific Gas & Electric (PG&E)	293	H0570	Wishon Powerhouse	CA	18.0	52,848	52,785
2019	PacifiCorp	294	H0111	Copco 1	CA	20.0	86,874	85,841
2019	PacifiCorp	295	H0112	Copco 2	CA	27.0	109,272	108,585
2019	PacifiCorp	296	H0177	Fall Creek	CA	2.2	6,382	6,046
2019	PacifiCorp	297	H0245	Iron Gate	CA	18.0	101,488	101,368
2019	Placer County Water Agency	424	H0195	French Meadows	CA	15.0	84,906	84,192
2019	Placer County Water Agency	763	H0228	Hell Hole	CA	0.7	2,132	2,068
2019	Placer County Water Agency	426	H0374	Oxbow	CA	6.0	36,538	36,130
2019	Rock Creek Limited Partnership	50892	H0422	Rock Creek L.P.	CA	3.6	1,704	1,704
2019	Sacramento Municipal Utility District (SMUD)	531	H0083	Camp Far West	CA	7.2	29,568	29,529
2019	Sacramento Municipal Utility District (SMUD)	534	H0255	Jones Fork	CA	10.0	11,583	11,541
2019	Sacramento Municipal Utility District (SMUD)	433	H0414	Robbs Peak	CA	25.5	56,395	56,388
2019	Sacramento Municipal Utility District (SMUD)	522	H0482	Slab Creek	CA	0.5	0	0
2019	San Diego County Water Authority	56615	H0612	Rancho Penasquitos	CA	4.7	12,861	12,861
2019	San Gabriel Valley Municipal Water District	50233	H0443	San Dimas Wash	CA	1.0	3,021	3,021
2019	SF Public Utilities Commission	382	H0274	Kirkwood (RPS Certified)	CA	118.2	457,014	455,802
2019	SF Public Utilities Commission	751	H0336	Moccasin Low Head	CA	2.9	0	0
2019	Silicon Valley Power	7229	H0046	Black Butte	CA	6.2	0	18,065

2019	Silicon Valley Power	7338	H0213	Grizzly	CA	21.0	0	0
2019	Silicon Valley Power	7151	H0500	Stony Gorge	CA	5.0	14,338	14,337
2019	Siskiyou County	50179	H0284	Box Canyon	CA	5.0	21,076	20,928
2019	Slate Creek Hydro Assoc LP	50961	H0483	Slate Creek	CA	4.2	3	3
2019	Snow Mountain Hydro LLC	10707	H0236	Cove Hydroelectric	CA	5.0	18,055	18,055
2019	Snow Mountain Hydro LLC	10709	H0237	Ponderosa Bailey Creek	CA	1.1	3,808	3,808
2019	Snow Mountain Hydro LLC	10708	H0238	Lost Creek 1	CA	1.1	6,497	6,497
2019	Solano Irrigation District	7646	H0343	Monticello	CA	11.5	44,871	44,871
2019	Sonoma County Water Agency	54261	H0485	Warm Springs	CA	2.8	0	0
2019	South Feather Water and Power	418	H0263	Kelly Ridge	CA	10.0	60,705	60,526
2019	South Feather Water and Power	776	H0484	Sly Creek	CA	12.0	38,473	38,147
2019	South San Joaquin Irr District	50219	H0488	Frankenheimer	CA	5.0	12,640	12,640
2019	South San Joaquin Irr District	50218	H0489	Woodward	CA	2.8	2,203	2,203
2019	Southern California Edison (SCE)	323	H0041	Bishop Creek 2	CA	7.3	36,422	36,422
2019	Southern California Edison (SCE)	324	H0042	Bishop Creek 3	CA	7.8	35,190	35,190
2019	Southern California Edison (SCE)	325	H0043	Bishop Creek 4	CA	7.9	49,505	49,505
2019	Southern California Edison (SCE)	326	H0044	Bishop Creek 5	CA	3.8	17,350	17,350
2019	Southern California Edison (SCE)	327	H0045	Bishop Creek 6	CA	1.6	10,315	10,315
2019	Southern California Edison (SCE)	328	H0048	Borel	CA	11.0	0	-217
2019	Southern California Edison (SCE)	332	H0187	Fontana	CA	1.9	4,781	4,781
2019	Southern California Edison (SCE)	337	H0259	Kaweah 1	CA	1.0	0	-84
2019	Southern California Edison (SCE)	336	H0260	Kaweah 2	CA	1.8	8,336	8,336

2019	Southern California Edison (SCE)	338	H0261	Kaweah 3	CA	4.8	21,939	21,939
2019	Southern California Edison (SCE)	340	H0268	Kern River 1	CA	24.8	173,614	173,614
2019	Southern California Edison (SCE)	342	H0296	Lundy	CA	3.0	13,212	13,212
2019	Southern California Edison (SCE)	343	H0298	Lytle Creek	CA	0.5	1,800	1,800
2019	Southern California Edison (SCE)	346	H0331	Mill Creek 1	CA	0.8	4,403	4,403
2019	Southern California Edison (SCE)	9762	H0332	Mill Creek 2	CA	0.3	816	816
2019	Southern California Edison (SCE)	7147	H0333	Mill Creek 3	CA	3.0	9,787	9,787
2019	Southern California Edison (SCE)	348	H0372	Ontario 1	CA	0.6	0	0
2019	Southern California Edison (SCE)	349	H0373	Ontario 2	CA	0.3	1,240	1,240
2019	Southern California Edison (SCE)	353	H0398	Poole	CA	10.0	26,061	26,037
2019	Southern California Edison (SCE)	357	H0426	Rush Creek	CA	8.4	48,006	48,006
2019	Southern California Edison (SCE)	361	H0460	Santa Ana 1	CA	3.2	77	77
2019	Southern California Edison (SCE)	363	H0462	Santa Ana 3	CA	3.1	4,122	4,122
2019	Southern California Edison (SCE)	364	H0479	Sierra	CA	0.5	2,296	2,296
2019	Southern California Edison (SCE)	354	H0499	Portal	CA	10.0	22,023	21,961
2019	Southern California Edison (SCE)	365	H0525	Tule River	CA	2.5	0	-116
2019	Synergics Energy Services LLC	50180	H0371	Olsen	CA	5.0	14,168	14,168
2019	TKO Power Inc	50156	H0507	Bear Creek	CA	3.2	4,878	4,878

2019	Tri-Dam Power Authority	50400	H0519	Sand Bar	CA	16.2	107,575	107,575	
2019	Tri-Dam Project & Tri-Dam Power Authority	414	H0022	Beardsley	CA	10.0	0	0	
2019	Tri-Dam Project & Tri-Dam Power Authority	416	H0527	Tulloch	CA	30.6	146,744	144,985	
2019	Turlock Irrigation Distict	162	H0234	Hickman	CA	1.1	4,210	4,188	
2019	Turlock Irrigation Distict	440	H0276	La Grange	CA	4.2	10,845	10,778	
2019	Turlock Irrigation Distict	161	H0530	Turlock Lake	CA	3.3	7,938	7,905	
2019	Turlock Irrigation Distict	489	H0535	Upper Dawson	CA	4.4	10,482	10,349	
2019	United States Bureau of Reclamation	977	H0286	Lewiston	CA	0.3	3,455	1,742	
2019	United States Bureau of Reclamation	444	H0360	Nimbus	CA	13.5	40,467	40,260	
2019	United States Bureau of Reclamation	446	H0363	O'Neill (Pumping-Generating)	CA	25.2	4,108	3,006	
2019	United States Bureau of Reclamation	449	H0471	Senator Wash (Pumping-Generating)	CA	7.8	7,791	6,490	
2019	United States Bureau of Reclamation	7066	H0497	Stampede	CA	3.6	12,420	12,236	
2019	United Water Conservation District	50076	H0533	Santa Felicia	CA	1.4	914	914	
2019	Utica Power Authority	215	H0008	Angels	CA	1.4	6,389	6,389	
2019	Utica Power Authority	261	H0346	Murphys	CA	3.6	14,963	14,963	
2019	Yolo County Flood Control & Water Conservation District	50129	H0243	Indian Valley Dam	CA	3.0	8,285	8,285	
2019	Yolo County Flood Control & Water Conservation District	50128	H0576	Clear Lake	CA	2.5	0	0	
2019	Yuba County Water Agency	4229	H0053	Fish Power (NPCap = 0.15MW - No Reporting RQD)	CA	0.2	1,215	1,190	
2019	Yuba County Water Agency	262	H0348	Narrows 1	CA	12.0	46,997	46,910	
						Total	1,756.0	5,355,694	5,341,232

Large Hydroelectric Production

Year	Company Name	EIA Plant ID	CEC Plant ID	Plant Name	State	Capacity (MW)	Gross MWh	Net MWh
2019	California Department of Water Resources	436	H0137	Devil Canyon	CA	276.4	1,251,744	1,249,348
2019	California Department of Water Resources	437	H0164	Edward C Hyatt (Unit 1,3,5 Pumping-Generating)	CA	644.3	2,676,686	2,663,585
2019	California Department of Water Resources	7072	H0337	Mojave Siphon	CA	32.8	78,100	77,235
2019	California Department of Water Resources	448	H0452	W R Gianelli (Pumping-Generating)	CA	424.0	286,911	-116,243
2019	California Department of Water Resources	438	H0510	Thermalito (Unit 1 HY Unit 2-3-4 Pumping-Generating)	CA	115.1	0	0
2019	California Department of Water Resources	6196	H0567	William E. Warne	CA	74.3	206,280	205,059
2019	Kings River Conservation District	7907	H0387	Pine Flat	CA	165.0	719,960	714,561
2019	Los Angeles Department of Water & Power (LADWP)	392	H0090	Castaic (Pumped Storage)	CA	1,682.0	412,365	193,135
2019	Merced Irrigation District	409	H0175	Exchequer	CA	94.5	344,030	341,319
2019	Nevada Irrigation District	412	H0095	Chicago Park	CA	44.0	148,036	147,627
2019	Northern California Power Agency	54555	H0107	Collierville	CA	263.0	919,374	907,958
2019	Pacific Gas & Electric (PG&E)	217	H0019	Balch #1	CA	34.0	163,201	162,881
2019	Pacific Gas & Electric (PG&E)	218	H0020	Balch #2	CA	108.0	581,190	581,049
2019	Pacific Gas & Electric (PG&E)	219	H0023	Belden	CA	117.9	429,612	429,605
2019	Pacific Gas & Electric (PG&E)	220	H0052	Bucks Creek	CA	58.0	160,263	157,966
2019	Pacific Gas & Electric (PG&E)	221	H0057	Butt Valley	CA	40.0	129,768	129,759
2019	Pacific Gas & Electric (PG&E)	222	H0087	Caribou #1	CA	73.8	133,015	129,021

2019	Pacific Gas & Electric (PG&E)	223	H0088	Caribou #2	CA	120.0	678,486	678,226
2019	Pacific Gas & Electric (PG&E)	231	H0121	Cresta	CA	70.0	371,105	370,395
2019	Pacific Gas & Electric (PG&E)	235	H0154	Drum #1	CA	55.5	73,339	72,367
2019	Pacific Gas & Electric (PG&E)	236	H0155	Drum #2	CA	49.5	278,445	278,193
2019	Pacific Gas & Electric (PG&E)	239	H0171	Electra	CA	99.0	316,501	316,465
2019	Pacific Gas & Electric (PG&E)	240	H0215	Haas	CA	144.0	649,991	649,524
2019	Pacific Gas & Electric (PG&E)	6100	H0229	Helms (Pumped Storage)	CA	1,212.0	754,446	-298,545
2019	Pacific Gas & Electric (PG&E)	249	H0250	James B Black	CA	172.0	679,584	679,511
2019	Pacific Gas & Electric (PG&E)	682	H0266	Kerckhoff PH 2	CA	155.0	668,342	668,308
2019	Pacific Gas & Electric (PG&E)	254	H0272	Kings River	CA	52.0	122,289	121,959
2019	Pacific Gas & Electric (PG&E)	265	H0388	Pit #1	CA	63.0	277,359	277,353
2019	Pacific Gas & Electric (PG&E)	266	H0389	Pit #3	CA	69.0	362,279	362,248
2019	Pacific Gas & Electric (PG&E)	267	H0390	Pit #4	CA	95.0	452,962	452,859
2019	Pacific Gas & Electric (PG&E)	268	H0391	Pit #5	CA	160.0	853,705	853,705
2019	Pacific Gas & Electric (PG&E)	269	H0392	Pit #6	CA	80.0	334,915	334,584
2019	Pacific Gas & Electric (PG&E)	270	H0393	Pit #7	CA	112.0	461,474	459,261
2019	Pacific Gas & Electric (PG&E)	272	H0395	Poe	CA	120.0	603,115	602,868
2019	Pacific Gas & Electric (PG&E)	275	H0417	Rock Creek	CA	112.0	645,065	638,314
2019	Pacific Gas & Electric (PG&E)	279	H0431	Salt Springs	CA	46.0	191,509	191,493
2019	Pacific Gas & Electric (PG&E)	285	H0498	Stanislaus	CA	91.0	376,695	376,694
2019	Pacific Gas & Electric (PG&E)	287	H0516	Tiger Creek	CA	60.0	252,410	252,400
2019	Placer County Water Agency	425	H0275	Middle Fork American River	CA	116.0	761,703	760,209
2019	Placer County Water Agency	427	H0406	Ralston	CA	79.0	539,588	536,143
2019	Sacramento Municipal Utility District (SMUD)	430	H0081	Camino	CA	157.8	464,037	464,032
2019	Sacramento Municipal Utility District (SMUD)	431	H0253	Jaybird	CA	161.6	644,044	644,019

2019	Sacramento Municipal Utility District (SMUD)	432	H0289	Loon Lake	CA	74.1	111,042	110,999
2019	Sacramento Municipal Utility District (SMUD)	6612	H0532	Union Valley	CA	46.7	127,659	127,658
2019	Sacramento Municipal Utility District (SMUD)	435	H0565	White Rock	CA	266.0	780,631	780,630
2019	San Diego County Water Authority	57729	H0613	Lake Hodges Station (Olivenhain Pumped Storage)	CA	40.0	49,938	-24,012
2019	SF Public Utilities Commission	380	H0141	Dion R Holm	CA	165.0	613,792	612,467
2019	SF Public Utilities Commission	381	H0601	Moccasin	CA	100.0	328,642	327,941
2019	Snow Mountain Hydro LLC	10706	H0240	Burney Creek	CA	3.0	8,869	8,869
2019	South Feather Water and Power	417	H0191	Forbestown	CA	39.7	157,849	157,495
2019	South Feather Water and Power	419	H0573	Woodleaf	CA	59.0	224,400	223,900
2019	Southern California Edison (SCE)	317	H0027	Big Creek 1	CA	82.9	345,253	345,253
2019	Southern California Edison (SCE)	318	H0028	Big Creek 2	CA	67.1	329,938	329,938
2019	Southern California Edison (SCE)	322	H0030	Big Creek 2A	CA	98.5	505,669	505,669
2019	Southern California Edison (SCE)	319	H0032	Big Creek 3	CA	177.0	859,281	859,281
2019	Southern California Edison (SCE)	320	H0034	Big Creek 4	CA	100.0	513,541	513,541
2019	Southern California Edison (SCE)	321	H0036	Big Creek 8	CA	64.5	283,943	283,943
2019	Southern California Edison (SCE)	104	H0161	Eastwood (Pumped Storage)	CA	199.0	254,857	254,676
2019	Southern California Edison (SCE)	339	H0269	Kern River 3	CA	36.8	211,529	211,529
2019	Southern California Edison (SCE)	344	H0313	Mammoth Pool	CA	187.0	513,561	513,546

2019	Tri-Dam Project & Tri-Dam Power Authority	415	H0145	Donnells	CA	72.0	302,766	301,738
2019	Turlock Irrigation Distict	439	H0144	Don Pedro	CA	203.0	593,956	581,212
2019	United States Bureau of Reclamation	441	H0186	Folsom	CA	207.0	780,328	774,282
2019	United States Bureau of Reclamation	442	H0257	Judge F Carr	CA	154.4	263,601	263,352
2019	United States Bureau of Reclamation	443	H0270	Keswick	CA	117.0	357,696	355,961
2019	United States Bureau of Reclamation	6158	H0353	New Melones	CA	300.0	749,984	748,456
2019	United States Bureau of Reclamation	447	H0381	Parker	CA	120.0	426,582	424,554
2019	United States Bureau of Reclamation	445	H0475	Shasta	CA	714.0	2,297,258	2,293,986
2019	United States Bureau of Reclamation	450	H0493	Spring Creek	CA	180.0	375,198	374,419
2019	United States Bureau of Reclamation	451	H0520	Trinity	CA	140.0	271,713	270,276
2019	Yuba County Water Agency	454	H0352	Colgate	CA	315.0	1,641,079	1,638,632
2019	Yuba County Water Agency	455	H0354	Narrows 2	CA	55.0	266,523	266,252
Total						12,282.1	35,001,002	33,152,894

Hydroelectricity Production Not in California (Imported)

Year	Company Name	EIA Plant ID	CEC Plant ID	Plant Name	State	Capacity (MW)	Gross MWh	Net MWh
2019	United States Bureau of Reclamation	8902	H0242	Hoover Dam (NV)	NV	2,080.0	3,346,120	3,331,910
Total						2,080.0	3,346,120	3,331,910

Total Hydroelectricity Production

(Annual Totals; Excludes Imports)

Year	Capacity (MW)	Gross MWh	Net MWh
2019	14,038.2	40,356,696	38,494,126
2018	14,038.2	28,377,384	26,292,574
2017	14,038.7	45,364,541	43,303,194
2016	14,029.4	30,981,995	28,986,131
2015	14,030.4	15,258,736	13,995,887
2014	14,027.1	17,726,088	16,481,662
2013	13,948.1	25,532,885	24,100,869
2012	13,929.5	28,892,663	27,461,087
2011	13,916.5	43,629,271	42,736,875
2010	13,877.1	35,141,751	34,189,800
2009	13,850.5	29,017,436	28,539,572
2008	13,841.5	23,192,179	24,459,588
2007	13,559.0	27,959,678	27,106,124
2006	13,557.2	49,838,120	48,558,578
2005	13,453.1	40,225,246	40,262,539
2004	13,460.3	35,377,935	34,489,946
2003	13,461.7	37,307,688	36,320,836
2002	13,469.6	32,620,258	31,359,463
2001	13,607.9	26,474,125	24,987,848
2000	N/A	N/A	42,053,000
1999	N/A	N/A	41,627,000

1998	N/A	N/A	48,757,000
1997	N/A	N/A	41,400,000
1996	N/A	N/A	47,883,000
1995	N/A	N/A	51,665,000
1994	N/A	N/A	25,626,000
1993	N/A	N/A	41,595,000
1992	N/A	N/A	22,373,000
1991	N/A	N/A	23,244,000
1990	N/A	N/A	26,092,000
1989	N/A	N/A	32,742,000
1988	N/A	N/A	26,692,000
1987	N/A	N/A	27,140,000
1986	N/A	N/A	44,478,000
1985	N/A	N/A	33,898,000
1984	N/A	N/A	46,880,000
1983	N/A	N/A	59,351,000

Hydroelectricity Production by County

County	Capacity (MW)	Net MWh
Amador	219.0	838,333
Butte	1,116.8	4,243,465
Calaveras	294.6	1,110,153
El Dorado	773.9	2,317,644
Fresno	2,594.2	5,200,458
Glenn	5.0	14,337

Humboldt	1.5	950
Imperial	92.5	217,865
Inyo	155.9	432,432
Kern	112.0	470,205
Lake	5.5	8,285
Lassen	29.9	83,310
Los Angeles	1,972.1	923,866
Madera	355.1	1,265,415
Mariposa	103.5	387,704
Mendocino	12.8	32,637
Merced	455.4	-96,424
Mohave	2,080.0	3,331,910
Mono	21.4	87,255
Nevada	124.8	451,126
Orange	12.3	22,257
Placer	391.5	2,000,412
Plumas	549.3	2,169,733
Riverside	49.6	41,787
Sacramento	220.5	814,542
San Bernardino	467.3	1,846,591
San Diego	52.1	-7,762
San Joaquin	10.8	61,766
San Luis Obispo	4.4	13,218
Shasta	2,002.3	7,027,268
Sierra	13.6	27,741
Siskiyou	72.2	322,768

Sonoma	2.8	0
Stanislaus	20.9	48,063
Tehama	21.2	43,015
Trinity	153.6	293,246
Tulare	37.9	100,365
Tuolumne	1,123.9	3,722,532
Ventura	2.4	1,730
Yolo	11.5	44,871
Yuba	372.2	1,910,967

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