

Subj: Wind energy production records from the San Gorgonio Pass in California

Date: April 29, 2008

The first two pages of graphs show the production from the San Gorgonio Pass near Palm Springs and Tehachapi, CA combined and times of generation.

The next pages of production records are from the San Gorgonio Pass only that depict times of generation, hours, monthly and annually. The first page is a guide as how to interpret the information. Example: TOU is time of use.

Few people are aware of wind energy's actual production, since only "installed capacity" is ever quoted... for instance the installed capacity in the San Gorgonio Pass according to American Wind Energy Assoc. website was about 565 MW which generated only 732,561,714 kWh in 2006.

California has about 2,438.83 MW of installed capacity and according to the California Energy Commission they only generated 4,927 Gigawatt hours in 2006, which translates into 562.44 MW. Edison uses about 13,000 MW annually and the State of California uses about 67,545 annually. Winds contribution was .0162.

Alexandra Weit
bobweit @msn.com

STATS

WIND POWER STATISTICS

	ON	MID	OFF	S-OFF	TOTAL	CAPACITY
1992	93,139	516,915	766,880	260,579	1,637,513	1001
1993	132,778	646,302	865,540	293,656	1,938,276	933
1994	125,584	661,093	903,051	307,520	1,997,248	949
1995	123,448	620,691	899,614	299,555	1,943,308	958
1996	120,563	785,184	990,360	365,746	2,261,853	915
1997	110,403	678,425	906,661	323,604	2,019,093	918
1998					0	

TOTALS 705,915 3,908,610 5,332,106 1,850,660 11,797,291

6 AVERAGE	117,653	651,435	888,684	308,443		
% OF TOT	6	33	45	16		100
HRS / YR	522	2,954	3,826	1,458		
AVG MW	225	221	232	212		

9/11/98

WINDGEN.XIS

	on	mid	off	s-off	total	capacity
1998	123,493,479	705,960,006	913,973,078	333,340,553	2,076,767,116	
1999	134,968,009	787,801,986	1,031,937,240	365,032,106	2,319,740,340	
2000	127,134,467	837,571,381	1,176,899,512	419,733,612	2,561,439,002	
2001	130,730,857	772,890,916	1,100,134,779	373,990,526	2,377,747,078	
2002	159,936,055	828,583,302	1,201,237,642	402,088,569	2,591,845,568	
2003	122,490,511	776,677,726	1,073,936,196	393,474,842	2,366,579,275	
2004	140,216,127	763,215,674	1,053,797,800	356,006,279	2,313,235,880	
2005	125,806,073	715,508,298	1,078,475,187	355,916,520	2,275,706,078	
2006	115,815,292	681,635,466	955,591,045	352,469,447	2,105,511,250	may be missing December
totals	1,180,591,890	6,889,844,765	9,586,082,479	3,352,052,453	20,988,571,587	
average	131,176,877	763,316,085	1,065,120,275	372,450,273		
% of tot	5.62	32.73	45.67	15.97	100.00	

This is study is based on aggregated hourly data in San Geronio									
TOU=1 is On peak									
TOU=2 is Mid peak									
TOU=3 is Off peak									
TOU=4 is Super Off peak									
Summer season is June to Sept									
Winter season is Oct. to May Oct. 1									
Example:									
Year	Month	Tou	HOURS_MON	KWH_MON	HOURS_YR	KWH_YR	HR_PER(%)	KWH_PER(%)	
1998	1	2	273	12,160,838	8760	797,709,528	3.1	1.5	

For January, there are 1.5% of the annual generation during the mid peak hours which constitute 3.1% of the time.

To: Ms. Weit
 Please call me at 626-302-8577 if you
 have any question.

Min Lin Cheng
 at SCE

Monthly_tou

Monthly San Geronimo Wind Generation by time of use from year 1998 to 2006									
Year	Month	Tou	HOURS_MON	KWH_MON	HOURS_YR	KWH_YR	HR_PER(%)	KWH_PER(%)	
1998	1	2	273	12,160,838	8760	797,709,528	3.1	1.5	
1998	1	3	285	11,952,051	8760	797,709,528	3.3	1.5	
1998	1	4	186	9,242,083	8760	797,709,528	2.1	1.2	
1998	2	2	247	13,383,222	8760	797,709,528	2.8	1.7	
1998	2	3	257	18,034,681	8760	797,709,528	2.9	2.3	
1998	2	4	168	11,954,854	8760	797,709,528	1.9	1.5	
1998	3	2	286	29,218,001	8760	797,709,528	3.3	3.7	
1998	3	3	272	19,043,322	8760	797,709,528	3.1	2.4	
1998	3	4	186	15,209,866	8760	797,709,528	2.1	1.9	
1998	4	2	286	29,997,118	8760	797,709,528	3.3	3.8	
1998	4	3	254	29,501,847	8760	797,709,528	2.9	3.7	
1998	4	4	179	19,998,828	8760	797,709,528	2.0	2.5	
1998	5	2	260	42,689,122	8760	797,709,528	3.0	5.4	
1998	5	3	298	54,648,750	8760	797,709,528	3.4	6.9	
1998	5	4	186	33,795,703	8760	797,709,528	2.1	4.2	
1998	6	1	132	23,623,310	8760	797,709,528	1.5	3.0	
1998	6	2	198	36,310,224	8760	797,709,528	2.3	4.6	
1998	6	3	390	69,783,824	8760	797,709,528	4.5	8.7	
1998	7	1	138	14,015,798	8760	797,709,528	1.6	1.8	
1998	7	2	207	23,618,432	8760	797,709,528	2.4	3.0	
1998	7	3	399	37,390,467	8760	797,709,528	4.6	4.7	
1998	8	1	128	5,768,064	8760	797,709,528	1.4	0.7	
1998	8	2	189	14,441,615	8760	797,709,528	2.2	1.8	
1998	8	3	429	28,412,553	8760	797,709,528	4.9	2.9	
1998	9	1	126	13,548,572	8760	797,709,528	1.4	1.7	
1998	9	2	189	22,809,154	8760	797,709,528	2.2	2.9	
1998	9	3	405	43,097,123	8760	797,709,528	4.6	5.4	
1998	10	2	286	19,854,719	8760	797,709,528	3.3	2.5	
1998	10	3	272	18,119,004	8760	797,709,528	3.1	2.3	
1998	10	4	187	13,785,065	8760	797,709,528	2.1	1.7	
1998	11	2	247	10,259,177	8760	797,709,528	2.8	1.3	
1998	11	3	283	15,131,427	8760	797,709,528	3.3	1.9	
1998	11	4	180	7,965,852	8760	797,709,528	2.1	1.0	
1998	12	2	286	13,769,020	8760	797,709,528	3.3	1.7	
1998	12	3	272	12,954,770	8760	797,709,528	3.1	1.6	
1998	12	4	186	7,221,272	8760	797,709,528	2.1	0.9	
1999	1	2	260	15,136,430	8760	883,429,026	3.0	1.7	
1999	1	3	298	11,981,525	8760	883,429,026	3.4	1.4	
1999	1	4	186	7,737,414	8760	883,429,026	2.1	0.9	
1999	2	2	247	16,911,536	8760	883,429,026	2.8	1.9	
1999	2	3	257	19,482,898	8760	883,429,026	2.9	2.2	

Monthly_tou

1999	2	4	188	12,363,283	8760	883,429,026	1.9	1.4
1999	3	2	209	36,123,848	8760	883,429,026	3.4	4.1
1999	3	3	259	33,842,584	8760	883,429,026	3.0	3.8
1999	3	4	186	25,784,389	8760	883,429,026	2.1	2.9
1999	4	2	286	40,602,147	8760	883,429,026	3.3	4.6
1999	4	3	254	31,574,022	8760	883,429,026	2.9	3.6
1999	4	4	179	24,997,350	8760	883,429,026	2.0	2.8
1999	5	2	260	38,539,282	8760	883,429,026	3.0	4.4
1999	5	3	298	54,631,542	8760	883,429,026	3.4	6.2
1999	5	4	186	32,469,401	8760	883,429,026	2.1	3.7
1999	6	1	132	21,423,677	8760	883,429,026	1.5	2.4
1999	6	2	198	33,415,858	8760	883,429,026	2.3	3.8
1999	6	3	390	57,074,150	8760	883,429,026	4.5	6.5
1999	7	1	126	15,568,484	8760	883,429,026	1.4	1.8
1999	7	2	189	25,985,675	8760	883,429,026	2.2	2.9
1999	7	3	429	59,846,755	8760	883,429,026	4.9	6.8
1999	8	1	132	11,798,143	8760	883,429,026	1.5	1.3
1999	8	2	198	23,150,358	8760	883,429,026	2.3	2.6
1999	8	3	414	45,260,716	8760	883,429,026	4.7	5.1
1999	9	1	126	8,345,260	8760	883,429,026	1.4	0.9
1999	9	2	189	15,684,220	8760	883,429,026	2.2	1.8
1999	9	3	405	36,736,249	8760	883,429,026	4.6	4.2
1999	10	2	273	21,673,158	8760	883,429,026	3.1	2.5
1999	10	3	286	18,175,351	8760	883,429,026	3.3	2.1
1999	10	4	187	13,601,353	8760	883,429,026	2.1	1.5
1999	11	2	260	13,818,110	8760	883,429,026	3.0	1.6
1999	11	3	260	19,385,424	8760	883,429,026	3.2	2.2
1999	11	4	180	11,355,419	8760	883,429,026	2.1	1.3
1999	12	2	293	15,863,192	8760	883,429,026	3.4	1.8
1999	12	3	259	7,505,987	8760	883,429,026	3.0	0.8
1999	12	4	186	5,605,057	8760	883,429,026	2.1	0.6
2000	1	2	273	19,570,657	8784	952,507,247	3.1	2.1
2000	1	3	285	20,103,074	8784	952,507,247	3.2	2.1
2000	1	4	186	12,446,560	8784	952,507,247	2.1	1.3
2000	2	2	260	29,861,061	8784	952,507,247	3.0	3.1
2000	2	3	262	26,420,644	8784	952,507,247	3.0	2.8
2000	2	4	174	19,303,785	8784	952,507,247	2.0	2.0
2000	3	2	299	26,789,873	8784	952,507,247	3.4	2.8
2000	3	3	259	22,868,967	8784	952,507,247	2.9	2.4
2000	3	4	186	19,607,111	8784	952,507,247	2.1	2.1
2000	4	2	260	32,856,277	8784	952,507,247	3.0	3.4
2000	4	3	280	43,140,830	8784	952,507,247	3.2	4.5
2000	4	4	179	27,736,957	8784	952,507,247	2.0	2.9
2000	5	2	286	47,949,920	8784	952,507,247	3.3	5.0

Monthly_tou

2000	5	3	272	44,323,284	8784	952,507,247	3.1	4.7
2000	5	4	186	30,330,198	8784	952,507,247	2.1	3.2
2000	6	1	132	19,546,455	8784	952,507,247	1.5	2.1
2000	6	2	198	33,915,197	8784	952,507,247	2.3	3.6
2000	6	3	390	59,286,265	8784	952,507,247	4.4	6.2
2000	7	1	120	15,132,486	8784	952,507,247	1.4	1.6
2000	7	2	180	29,085,812	8784	952,507,247	2.0	3.1
2000	7	3	444	80,058,033	8784	952,507,247	5.1	8.4
2000	8	1	138	11,304,362	8784	952,507,247	1.6	1.2
2000	8	2	207	22,602,940	8784	952,507,247	2.4	2.4
2000	8	3	398	42,442,568	8784	952,507,247	4.5	4.5
2000	9	1	120	10,379,776	8784	952,507,247	1.4	1.1
2000	9	2	180	20,723,762	8784	952,507,247	2.0	2.2
2000	9	3	420	47,895,423	8784	952,507,247	4.8	5.0
2000	10	2	286	25,396,622	8784	952,507,247	3.3	2.7
2000	10	3	272	28,142,357	8784	952,507,247	3.1	3.0
2000	10	4	187	21,012,372	8784	952,507,247	2.1	2.2
2000	11	2	273	11,783,644	8784	952,507,247	3.1	1.2
2000	11	3	267	11,314,950	8784	952,507,247	3.0	1.2
2000	11	4	180	7,866,456	8784	952,507,247	2.0	0.8
2000	12	2	260	11,978,567	8784	952,507,247	3.0	1.3
2000	12	3	298	10,913,179	8784	952,507,247	3.4	1.1
2000	12	4	186	8,416,905	8784	952,507,247	2.1	0.9
2001	1	2	286	14,525,858	8760	858,533,582	3.3	1.7
2001	1	3	272	11,363,120	8760	858,533,582	3.1	1.3
2001	1	4	186	8,013,479	8760	858,533,582	2.1	0.9
2001	2	2	247	17,424,621	8760	858,533,582	2.9	2.0
2001	2	3	257	20,289,437	8760	858,533,582	2.9	2.4
2001	2	4	168	12,245,095	8760	858,533,582	1.9	1.4
2001	3	2	286	30,351,668	8760	858,533,582	3.3	3.5
2001	3	3	272	27,012,308	8760	858,533,582	3.1	3.1
2001	3	4	186	19,822,852	8760	858,533,582	2.1	2.3
2001	4	2	273	48,311,618	8760	858,533,582	3.1	5.6
2001	4	3	267	46,754,192	8760	858,533,582	3.0	5.4
2001	4	4	179	33,404,448	8760	858,533,582	2.0	3.9
2001	5	2	286	31,446,018	8760	858,533,582	3.3	3.7
2001	5	3	272	42,069,909	8760	858,533,582	3.1	4.9
2001	5	4	186	25,918,111	8760	858,533,582	2.1	3.0
2001	6	1	126	17,148,417	8760	858,533,582	1.4	2.0
2001	6	2	189	28,170,179	8760	858,533,582	2.2	3.3
2001	6	3	405	68,670,499	8760	858,533,582	4.6	8.0
2001	7	1	126	16,949,446	8760	858,533,582	1.4	2.0
2001	7	2	189	26,629,398	8760	858,533,582	2.2	3.1
2001	7	3	429	61,201,872	8760	858,533,582	4.9	7.1

Monthly_tou

2001	8	1	138	10,290,828	8760	858,533,582	1.6	1.2
2001	8	2	207	21,402,227	8760	858,533,582	2.4	2.5
2001	8	3	399	33,522,246	8760	858,533,582	4.6	3.9
2001	9	1	114	10,499,332	8760	858,533,582	1.3	1.2
2001	9	2	171	16,594,945	8760	858,533,582	2.0	1.9
2001	9	3	435	35,723,671	8760	858,533,582	5.0	4.2
2001	10	2	299	19,573,205	8760	858,533,582	3.4	2.3
2001	10	3	258	18,414,559	8760	858,533,582	3.0	2.1
2001	10	4	187	12,993,743	8760	858,533,582	2.1	1.5
2001	11	2	260	7,720,260	8760	858,533,582	3.0	0.9
2001	11	3	280	20,185,489	8760	858,533,582	3.2	2.4
2001	11	4	180	9,805,587	8760	858,533,582	2.1	1.1
2001	12	2	260	15,142,564	8760	858,533,582	3.0	1.8
2001	12	3	298	11,220,639	8760	858,533,582	3.4	1.3
2001	12	4	186	7,721,742	8760	858,533,582	2.1	0.9
2002	1	2	286	13,271,575	8760	965,777,430	3.3	1.4
2002	1	3	272	7,623,047	8760	965,777,430	3.1	0.8
2002	1	4	186	6,451,861	8760	965,777,430	2.1	0.7
2002	2	2	247	7,246,550	8760	965,777,430	2.8	0.8
2002	2	3	257	19,342,651	8760	965,777,430	2.9	2.0
2002	2	4	168	7,922,264	8760	965,777,430	1.9	0.8
2002	3	2	273	25,204,667	8760	965,777,430	3.1	2.6
2002	3	3	285	33,772,109	8760	965,777,430	3.3	3.5
2002	3	4	186	21,441,502	8760	965,777,430	2.1	2.2
2002	4	2	286	49,737,612	8760	965,777,430	3.3	5.2
2002	4	3	254	43,407,629	8760	965,777,430	2.9	4.5
2002	4	4	179	33,106,862	8760	965,777,430	2.0	3.4
2002	5	2	286	46,722,998	8760	965,777,430	3.3	4.8
2002	5	3	272	46,743,918	8760	965,777,430	3.1	4.8
2002	5	4	186	35,749,696	8760	965,777,430	2.1	3.7
2002	6	1	120	21,797,097	8760	965,777,430	1.4	2.3
2002	6	2	180	37,309,487	8760	965,777,430	2.1	3.9
2002	6	3	420	83,745,809	8760	965,777,430	4.8	8.7
2002	7	1	132	14,124,686	8760	965,777,430	1.5	1.5
2002	7	2	198	26,657,033	8760	965,777,430	2.3	2.8
2002	7	3	414	58,528,090	8760	965,777,430	4.7	6.1
2002	8	1	132	16,390,566	8760	965,777,430	1.5	1.7
2002	8	2	198	28,268,981	8760	965,777,430	2.3	2.9
2002	8	3	414	50,027,053	8760	965,777,430	4.7	5.2
2002	9	1	120	12,149,194	8760	965,777,430	1.4	1.3
2002	9	2	180	19,580,512	8760	965,777,430	2.1	2.0
2002	9	3	420	40,443,033	8760	965,777,430	4.8	4.2
2002	10	2	299	38,579,603	8760	965,777,430	3.4	4.0
2002	10	3	259	24,223,435	8760	965,777,430	3.0	2.5

Monthly_tou

2002	10	4	187	25,132,868	8760	965,777,430	21	2.6
2002	11	2	247	8,979,244	8760	965,777,430	2.8	0.9
2002	11	3	293	16,753,359	8760	965,777,430	3.3	1.7
2002	11	4	180	9,497,048	8760	965,777,430	2.1	1.0
2002	12	2	273	12,068,029	8760	965,777,430	3.1	1.2
2002	12	3	285	14,759,304	8760	965,777,430	3.3	1.5
2002	12	4	186	9,017,860	8760	965,777,430	2.1	0.9
2003	1	2	286	7,298,117	8760	793,296,843	3.3	0.9
2003	1	3	272	3,755,220	8760	793,296,843	3.1	0.5
2003	1	4	186	3,335,499	8760	793,296,843	2.1	0.4
2003	2	2	247	12,841,088	8760	793,296,843	2.8	1.6
2003	2	3	257	16,086,064	8760	793,296,843	2.9	2.0
2003	2	4	188	11,301,787	8760	793,296,843	1.9	1.4
2003	3	2	273	27,061,982	8760	793,296,843	3.1	3.4
2003	3	3	285	23,398,252	8760	793,296,843	3.3	2.9
2003	3	4	186	15,674,156	8760	793,296,843	2.1	2.0
2003	4	2	286	58,624,825	8760	793,296,843	3.3	7.4
2003	4	3	254	48,010,030	8760	793,296,843	2.8	6.1
2003	4	4	179	36,019,816	8760	793,296,843	2.0	4.5
2003	5	2	273	35,303,067	8760	793,296,843	3.1	4.5
2003	5	3	285	46,681,937	8760	793,296,843	3.3	5.9
2003	5	4	186	29,512,110	8760	793,296,843	2.1	3.7
2003	6	1	126	18,281,782	8760	793,296,843	1.4	2.3
2003	6	2	189	31,968,745	8760	793,296,843	2.2	4.0
2003	6	3	405	66,233,208	8760	793,296,843	4.6	8.3
2003	7	1	132	8,285,387	8760	793,296,843	1.5	1.0
2003	7	2	198	20,291,674	8760	793,296,843	2.3	2.6
2003	7	3	414	47,776,895	8760	793,296,843	4.7	6.0
2003	8	1	126	7,061,131	8760	793,296,843	1.4	0.9
2003	8	2	189	15,885,472	8760	793,296,843	2.2	2.0
2003	8	3	429	34,830,576	8760	793,296,843	4.9	4.4
2003	9	1	126	7,785,480	8760	793,296,843	1.4	1.0
2003	9	2	189	14,507,736	8760	793,296,843	2.2	1.8
2003	9	3	405	23,330,289	8760	793,296,843	4.6	2.9
2003	10	2	299	20,796,058	8760	793,296,843	3.4	2.6
2003	10	3	259	11,803,171	8760	793,296,843	3.0	1.5
2003	10	4	187	10,509,310	8760	793,296,843	2.1	1.3
2003	11	2	234	12,561,965	8760	793,296,843	2.7	1.6
2003	11	3	306	16,688,586	8760	793,296,843	3.5	2.1
2003	11	4	180	10,944,290	8760	793,296,843	2.1	1.4
2003	11	2	286	11,158,132	8760	793,296,843	3.3	1.4
2003	12	2	272	17,409,671	8760	793,296,843	3.1	2.2
2003	12	3	186	10,483,515	8760	793,296,843	2.1	1.3
2003	12	4	273	6,033,612	8784	779,315,829	3.1	0.8

Monthly_tou

2004	1	3	285	11,654,164	8784	779,315,629	3.2	1.5
2004	1	4	186	7,502,574	8784	779,315,629	2.1	1.0
2004	2	2	247	17,622,867	8784	779,315,629	2.8	2.3
2004	2	3	275	12,277,560	8784	779,315,629	3.1	1.6
2004	2	4	174	11,549,246	8784	779,315,629	2.0	1.5
2004	3	2	299	21,384,881	8784	779,315,629	3.4	2.7
2004	3	3	259	12,682,111	8784	779,315,629	2.9	1.6
2004	3	4	186	11,978,155	8784	779,315,629	2.1	1.5
2004	4	2	286	35,527,427	8784	779,315,629	3.3	4.6
2004	4	3	254	23,296,465	8784	779,315,629	2.9	3.0
2004	4	4	179	19,441,957	8784	779,315,629	2.0	2.5
2004	5	2	260	45,760,425	8784	779,315,629	3.0	5.9
2004	5	3	298	48,260,569	8784	779,315,629	3.4	6.2
2004	5	4	186	32,654,225	8784	779,315,629	2.1	4.2
2004	6	1	132	15,842,230	8784	779,315,629	1.5	2.0
2004	6	2	198	31,675,878	8784	779,315,629	2.3	4.1
2004	6	3	390	64,280,772	8784	779,315,629	4.4	8.2
2004	7	1	126	16,431,299	8784	779,315,629	1.4	2.1
2004	7	2	188	29,424,036	8784	779,315,629	2.2	3.8
2004	7	3	429	58,058,536	8784	779,315,629	4.9	7.4
2004	8	1	132	10,623,287	8784	779,315,629	1.5	1.4
2004	8	2	198	21,858,070	8784	779,315,629	2.3	2.8
2004	8	3	414	44,212,892	8784	779,315,629	4.7	5.7
2004	9	1	126	10,927,858	8784	779,315,629	1.4	1.4
2004	9	2	189	18,503,598	8784	779,315,629	2.2	2.4
2004	9	3	405	35,881,152	8784	779,315,629	4.6	4.6
2004	10	2	273	15,025,156	8784	779,315,629	3.1	1.9
2004	10	3	285	22,404,703	8784	779,315,629	3.2	2.9
2004	10	4	187	14,158,537	8784	779,315,629	2.1	1.8
2004	11	2	260	7,576,307	8784	779,315,629	3.0	1.0
2004	11	3	280	12,819,947	8784	779,315,629	3.2	1.6
2004	11	4	180	8,115,289	8784	779,315,629	2.0	1.0
2004	12	2	299	13,128,496	8784	779,315,629	3.4	1.7
2004	12	3	259	5,380,972	8784	779,315,629	2.9	0.7
2004	12	4	186	5,360,306	8784	779,315,629	2.1	0.7
2005	1	2	273	9,495,512	8760	786,556,823	3.1	1.2
2005	1	3	285	8,951,000	8760	786,556,823	3.3	1.1
2005	1	4	186	4,955,573	8760	786,556,823	2.1	0.6
2005	2	2	247	6,537,951	8760	786,556,823	2.8	0.8
2005	2	3	257	9,783,923	8760	786,556,823	2.9	1.2
2005	2	4	168	5,689,622	8760	786,556,823	1.9	0.7
2005	3	2	299	34,385,272	8760	786,556,823	3.4	4.4
2005	3	3	259	27,576,116	8760	786,556,823	3.0	3.5
2005	3	4	186	22,216,112	8760	786,556,823	2.1	2.8

Monthly_tou

2005	4	2	273	33,628,148	8760	786,556,823	3.1	4.3
2005	4	3	267	34,881,872	8760	786,556,823	3.0	4.4
2005	4	4	179	23,113,186	8760	786,556,823	2.0	2.9
2005	5	2	273	37,791,873	8760	786,556,823	3.1	4.8
2005	5	3	285	46,458,694	8760	786,556,823	3.3	5.9
2005	5	4	186	30,219,078	8760	786,556,823	2.1	3.8
2005	6	1	182	21,620,176	8760	786,556,823	1.5	2.7
2005	6	2	198	34,688,801	8760	786,556,823	2.3	4.4
2005	6	3	390	68,716,673	8760	786,556,823	4.5	8.7
2005	7	1	120	10,177,107	8760	786,556,823	1.4	1.3
2005	7	2	180	20,878,068	8760	786,556,823	2.1	2.7
2005	7	3	444	51,237,331	8760	786,556,823	5.1	6.5
2005	8	1	138	7,667,574	8760	786,556,823	1.6	1.0
2005	8	2	207	16,341,338	8760	786,556,823	2.4	2.1
2005	8	3	399	28,489,457	8760	786,556,823	4.6	3.6
2005	9	1	126	11,244,123	8760	786,556,823	1.4	1.4
2005	9	2	189	19,647,191	8760	786,556,823	2.2	2.5
2005	9	3	406	44,808,550	8760	786,556,823	4.6	5.7
2005	10	2	273	16,424,066	8760	786,556,823	3.1	2.1
2005	10	3	285	23,072,690	8760	786,556,823	3.3	2.9
2005	10	4	187	15,401,507	8760	786,556,823	2.1	2.0
2005	11	2	260	12,291,386	8760	786,556,823	3.0	1.6
2005	11	3	280	13,318,645	8760	786,556,823	3.2	1.7
2005	11	4	190	8,200,944	8760	786,556,823	2.1	1.0
2005	12	2	273	7,397,987	8760	786,556,823	3.1	0.9
2005	12	3	285	12,748,115	8760	786,556,823	3.3	1.6
2005	12	4	186	6,491,562	8760	786,556,823	2.1	0.8
2006	1	2	273	10,925,192	8760	732,561,714	3.1	1.5
2006	1	3	285	16,362,911	8760	732,561,714	3.3	2.2
2006	1	4	186	11,135,364	8760	732,561,714	2.1	1.5
2006	2	2	247	11,945,218	8760	732,561,714	2.8	1.6
2006	2	3	257	10,056,512	8760	732,561,714	2.9	1.4
2006	2	4	168	6,789,522	8760	732,561,714	1.9	0.9
2006	3	2	299	35,901,035	8760	732,561,714	3.4	4.9
2006	3	3	259	28,857,728	8760	732,561,714	3.0	3.9
2006	3	4	186	22,732,434	8760	732,561,714	2.1	3.1
2006	4	2	260	29,508,328	8760	732,561,714	3.0	4.0
2006	4	3	280	49,073,272	8760	732,561,714	3.2	5.9
2006	4	4	179	25,550,157	8760	732,561,714	2.0	3.5
2006	5	2	286	31,931,866	8760	732,561,714	3.3	4.4
2006	5	3	272	35,117,743	8760	732,561,714	3.1	4.8
2006	5	4	186	24,336,865	8760	732,561,714	2.1	3.3
2006	6	1	132	11,517,579	8760	732,561,714	1.5	1.6
2006	6	2	198	20,928,557	8760	732,561,714	2.3	2.9

Monthly_tou

2006	6	3	390	41,464,755	8760	732,561,714	4.5	5.7
2006	7	1	120	7,849,719	8760	732,561,714	1.4	1.1
2006	7	2	180	16,040,169	8760	732,561,714	2.1	2.2
2006	7	3	444	37,210,573	8760	732,561,714	5.1	5.1
2006	8	1	138	11,111,188	8760	732,561,714	1.6	1.5
2006	8	2	207	18,927,773	8760	732,561,714	2.4	2.6
2006	8	3	399	40,561,706	8760	732,561,714	4.6	5.5
2006	9	1	120	8,764,288	8760	732,561,714	1.4	1.2
2006	9	2	180	15,309,572	8760	732,561,714	2.1	2.1
2006	9	3	420	22,119,949	8760	732,561,714	4.8	3.0
2006	10	2	286	27,383,384	8760	732,561,714	3.3	3.7
2006	10	3	272	26,155,185	8760	732,561,714	3.1	3.6
2006	10	4	187	18,959,798	8760	732,561,714	2.1	2.6
2006	11	2	273	13,960,312	8760	732,561,714	3.1	1.9
2006	11	3	267	14,524,925	8760	732,561,714	3.0	2.0
2006	11	4	180	9,592,903	8760	732,561,714	2.1	1.3
2006	12	2	280	4,565,321	8760	732,561,714	3.0	0.6
2006	12	3	298	14,482,415	8760	732,561,714	3.4	2.0
2006	12	4	186	6,877,465	8760	732,561,714	2.1	0.9

Windmill power production in the San Gorgonio Pass based on 565 MW of installed capacity from American Wind Energy's website. Edison used about 13,000 annually.

YEAR	IN KILOWATT HOURS	IN MEGAWATTS	% OF INSTALLED CAPACITY
1998	797,709,503	91.06	16
1999	883,429,028	100.84	17.8
2000	952,507,247	108.73	19.24
2001	858,533,582	98	17
2002	965,777,430	110.248	19.5
2003	793,296,843	90.55	16
2004	779,315,629	88.96	15.7
2005	786,556,823	89.789	15.89
2006	732,561,714	83.62	14

Conversion Formula: Divide kWh by 8760 [hrs. in one year], then divide by 1000.

Welcome to the *California*
Energy Commission

WWW.ENERGY.CA.GOV / ELECTRICITY / GROSS SYSTEM POWER

2006 Gross System Electricity Production

California Gross System Power for 2006 In Gigawatt-Hours (GWh)

Fuel Type	In-State	NW Imports	SW Imports	GSP	GSP Percentage
Coal {2}	17,573	5,467	23,195	46,235	15.7%
Large Hydro	43,088	10,608	2,343	56,039	19.0%
Natural Gas	106,968	2,051	13,207	122,226	41.5%
Nuclear	31,959	556	5,635	38,150	12.9%
Renewables	30,514	1,122	579	32,215	10.9%
Biomass	5,735	430	120	6,285	2.1%
Geothermal	13,448	0	260	13,708	4.7%
Small Hydro	5,788	448	0	6,236	2.1%
Solar {1}	616			616	0.2%
Wind	4,927	244	199	5,370	1.8%
TOTAL	230,102	19,804	44,959	294,865	100.0%

Source:

2006 Net System Power Report, Energy Commission Publication # CEC-300-2007-007. (Acrobat PDF, 8 pages, 48 kilobytes, date on line April 12, 2007)

Notes:

1. This number only includes generator-reported electricity, not electricity produced by many small-scale photovoltaic installations throughout the state. Based on the the Energy Commission's Renewable Energy Program records, the state has financed approximately 135,517 kilowatts (kW) of solar photovoltaic capacity. Assuming that each installed kW of PV-generated 1,500 kWh in 2005, then the combined output of these PV systems would add another 203.3

gigawatt-hours to the gross system power totals.

2. The in-state coal-fired generation includes electricity generated from several out-of-state coal-fired power plants that are owned by and reported by California utilities. There are other out-of-state generation facilities that are owned by California utilities, which are reported as imports.

Generally, to convert from gigawatt hours into megawatts, divide the number of gigawatts by 8,760 then multiply by 1,000 to get megawatts. This is "average" megawatts, as capacity of power plants varies depending on resource/fuel type and plant efficiency.

Previous report: [2005 Gross System Power](#)

[Commission Homepage](#) | [Site Index](#) | [Search Site](#) | [Glossary](#) | [Links](#) | [Contact Us](#)

Page Updated: 04/16/2007