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1. INTRODUCTION

Although the wind industry is very young, it has already made a substantial impact on the California energy market. Today, California has over 1300 megawatts of wind generating capacity, and in 1987 produced enough output to meet the annual electricity needs of almost 300,000 typical California homes. As a result, California has become the leader in wind development with almost 90 percent of the world's total generating capacity.

As the industry began exponential growth in 1981, the California Energy Commission and the American Wind Energy Association (AWEA) recognized the need for performance and other technology related information. Subsequent efforts by these two organizations led to the adoption of the Wind Performance Reporting System (WPRS) regulations in 1984. These regulations require all wind operators with projects rated greater than 100 kW and who sell electricity to a power purchaser, to report quarterly performance and related project information to the Energy Commission. The Commission has used this information to complete quarterly and annual reports for three years.

This annual report provides a detailed compilation of all 1987 reported data. From this data, staff summarized wind industry

performance information, production and capacity trends and cost information. Additionally, tables have been included that organize the data according to statewide totals, resource areas, turbine sizes, turbine types, turbine manufacturers, project operators and origin of turbine manufacturers.

Although many valuable observations about California's wind industry can be drawn from WPRS reported data, it is important to recognize some important limitations. First, the WPRS program has collected wind data for three years. A complete industry evaluation should consider all of this data rather than any single year. This is especially true for an industry such as wind which is so dependent on weather conditions that vary from year to year. Moreover, much of the data reported is not directly comparable because the industry still has not implemented a standardized turbine rating system. As a result, turbines are tested under different conditions and rated at widely varying miles per hour specifications. Evidence of the problem is indicated by the lack of correlation between blade swept area and turbine kW specifications. For example, one manufacturer's 400 kW turbine has only a slightly larger blade swept area than another manufacturer's 95 kW turbine. In other cases, the current product being offered by an operator or manufacturer may not be properly

represented in the report because old and new turbine data are grouped together. Often, newer equipment will be more efficient and reliable. Further, performance data does not consider other important variables such as cost per kW, expected operation and maintenance costs, durability of the system and quality of the site's wind resource. Thus, important wind industry findings presented in this annual report should be checked against many other hidden factors involved in wind development.

2. WPRS BACKGROUND

What is the Wind Performance Monitoring System (WPRS)?

California law requires the California Energy Commission to serve as a central repository in state government for the collection and dissemination of information on energy supplies. Relative to wind energy, the Commission adopted WPRS regulations on November 28, 1984. Starting in January, 1985, these regulations required all California wind operators with projects rated over 100 kW to provide quarterly wind performance reports if they sold electricity to a power purchaser. These reports include actual energy production and related project information. In addition, all California power purchasers are required to file quarterly reports documenting the power purchased from these wind operators. The Commission uses this information to produce quarterly and annual reports on wind industry performance in California.

Why Were WPRS Regulations Developed?

WPRS regulations were instituted for several reasons. First, the industry, investors, financial community and government agencies needed actual performance information to better evaluate the status of wind technology. Second, information that would help minimize tax abuse would benefit everybody involved in wind development: the industry would have less

"bad press" and better public opinion; investors would be better able to make informed investments, and government and public monies would be allocated to better performing projects. The WPRS regulations were also intended to provide performance information that is useful for government tracking of energy supplies and thereby allow for better planning of the state's energy needs.

Before federal tax credits expired in 1985, project financing was primarily venture capital from private investors who were willing to take a substantial risk on the technology due to the tax benefits they would receive. Since then, the focus of wind development has been on revenues from power sales and greater reliance on conventional financing from institutional lenders and foreign investors. WPRS information is also needed now to establish performance credibility with these new sources of financing.

What Information Do WPRS Reports Provide?

WPRS quarterly reports include the following information for all wind projects in California rated at 100 kW or greater which sell electricity: turbine manufacturers, model numbers, rotor diameters and kW ratings; the number of cumulative and new turbines installed; the projected output per turbine; the output for each turbine model, and the output for the entire

project.

What Information is Not Provided by WPRS
Quarterly Reports ?

WPRS reports do not provide information on all wind energy projects in California.

Nonoperating wind projects are not required to report performance information. The absence of a project from WPRS reports typically indicates that the project is not selling any power or is less than 100 kw. Other capacity not reported includes turbines that do not produce electricity for sale including turbines installed by utilities, government organizations and research facilities.

WPRS reports also do not include cost information for individual projects. Although cost information is reported for new projects, it is only reported in aggregate form. Lastly, WPRS reports are not able to always differentiate between old and new turbine performance. This is because turbines are often reported together in groups combining old and new machines.

However, where new turbine performance could be analyzed separately, it is evaluated to track any improvements that may occur with wind technology.

3. WPRS IMPLEMENTATION ISSUES

A number of problems were encountered and resolved the first two years of WPRS reporting and are discussed below.

Validating performance data. It was originally intended that utility quarterly reports would be used to validate operator output data. However, numerous problems occurred. First, some utilities did not provide information according to a calendar quarter. Second, utility data was only provided for the operator who filed a power sales agreement. However, in many cases more than one project was reported under a single utility contract making it difficult to verify individual project output figures. In order to establish a more reliable validation procedure, staff added utility receipts as a voluntary additional submission item to be filed with quarterly reports. Operator reported output figures that agree with either submitted utility receipts or utility reported data have been noted as validated.

Operators who failed to file. Utility quarterly reports inform CEC staff of all wind farm operators with projects rated 100 kW or greater who have sold power and are therefore required to submit WPRS reports. Those operators that sold power but did not submit reports were noted as "failed to file." By the end of the year, only two operators had failed to file. Depending on the

circumstances, staff will consider various options for resolving the situation.

Operators who filed reports with data missing. Some operators filed WPRS reports with one or more data items missing. The predominant missing data item was the projected quarterly output per turbine. Apparently, some wind projects were sold with only annual output estimates. Staff will continue to try and work with operators to report complete information.

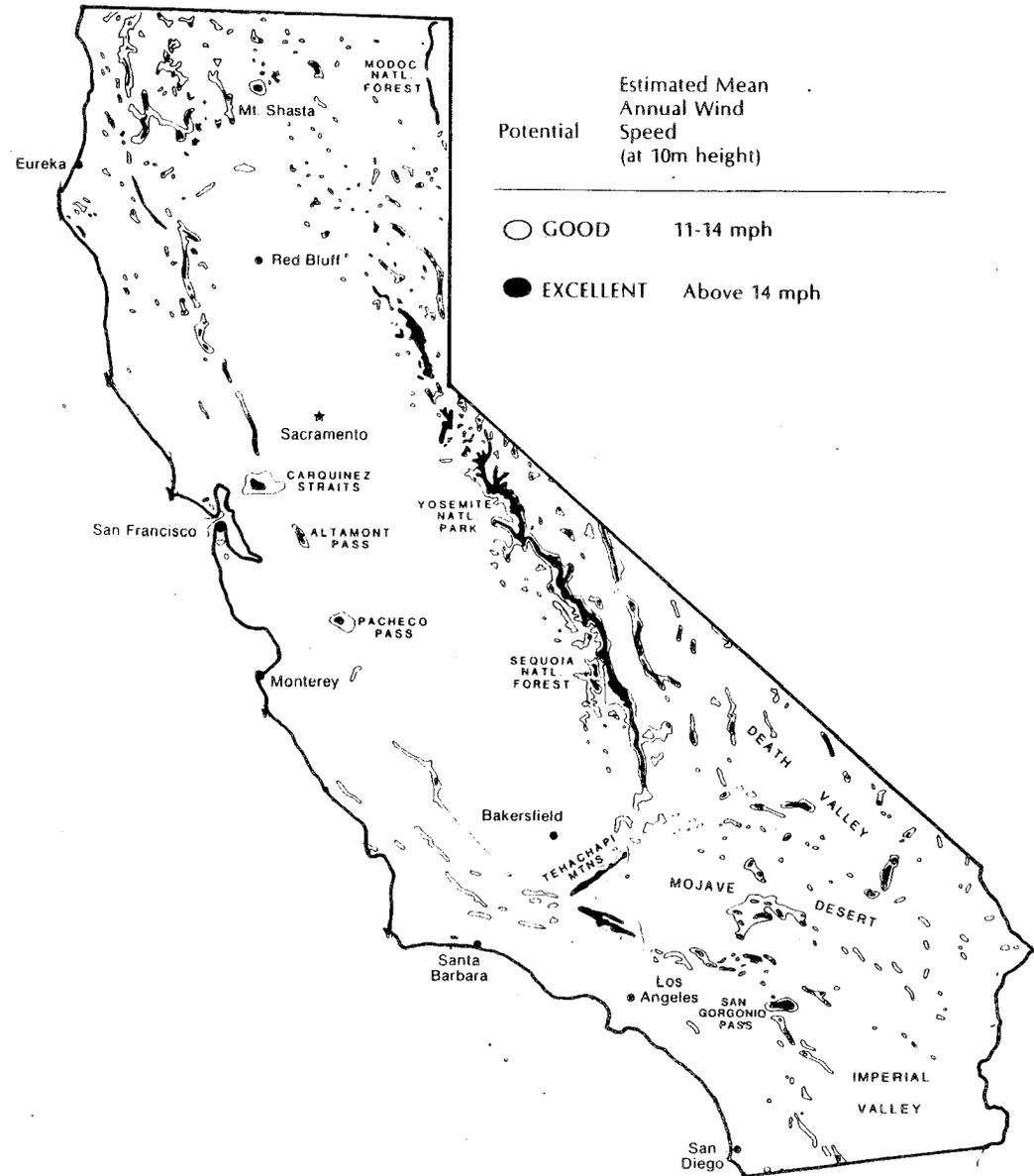
4. CALIFORNIA WIND RESOURCE AREAS

The wind resource map on this page includes the geographic location and quality associated with the major wind resource areas in California. The following six resource areas currently report wind project information:

- Altamont Pass
- Boulevard (resource area in San Diego County not shown on map)
- Carquinez Straits
- Salinas Valley (resource area in Monterey County not shown on map)
- San Gorgonio Pass
- Tehachapi Pass

Areas designated "good" are roughly equivalent to an estimated mean annual power, at 10 meter height, of 200 to 300 watts per square meter (W/m^2), and excellent above $300 W/m^2$.

Source: A. Miller and R. Simon, "Wind Power Potential in California", San Jose State University, prepared for the CEC, May 1978.



5. STAFF SUMMARY

5.A INDUSTRY PERFORMANCE

Total Capacity. A cumulative capacity of 1,304 megawatts was reported operational during the fourth quarter of 1987 to the WPRS program. Note that this capacity does not include what appears to be a significant amount of capacity that is no longer operating. For a complete list of nonoperating projects see *Appendix A*.

Electricity Output. In 1987, the California wind industry produced approximately 1,727 million kWh of electricity. This is enough power to meet the annual electricity needs of approximately 285,000 typical California homes.

Electricity Production Percent of Projected. Although the production from California wind projects represents a substantial amount of electricity, the industry as a whole only produced 59% of the total output it projected for 1987. Both industry observers and participants agree that many wind developers overstated their capabilities and provided projections that were not achievable. Note, however, that the percent of projected has increased 9% since last year (50%) and 14% from 1985 (45%).

Capacity Factor. Capacity factors are a useful indication of performance. A capacity factor is the ratio of actual energy output to the amount of

energy a project would produce if it operated at full rated power 24 hours a day over a given time period. As indicated earlier, there should be standardized testing of all wind turbines for capacity factors to be truly comparable, but currently there is no such program. Instead, wind turbine ratings are based on widely varying test conditions and miles per hour specifications. Note, however, the American Wind Energy Association has nearly completed development of voluntary standards for testing wind turbines.

Nonetheless, capacity factors are still a good indication of wind project performance. The annual capacity factor is the average of the quarterly capacity factors calculated for each group of turbines reported. Note that only operating turbines were used to calculate capacity factors so that the performance results would not be skewed by a substantial amount of nonoperational capacity. For projects with new turbines, only half of the new capacity is included in the capacity factor calculation during the quarter of installation. This is because it is unlikely new capacity operated for the entire quarter it was installed, and new equipment typically needs a "debugging" period before it operates at full rated power.

The resulting statewide capacity factor for 1987 was 16%. This is substantially below 20 to 30%

capacity factors cited for wind turbines in most technical reports but represents a 23% increase over the 13% capacity factor from the previous two years. The upper limit capacity factor estimated for wind technology ranges from 30 to 35%. Indeed, one project did achieve this upper limit with an annual capacity factor of 34%.

The low performance indicated for the industry as a whole is consistent with the low percent of projected electricity production. However, it appears that the statewide average performance may be adversely affected by a substantial number of older turbines that are less reliable and less efficient than the turbines currently being installed. In fact, where wind turbines installed after 1985 could be separately analyzed, the capacity factor was 19%, or 19% higher than the industry as a whole (*Figure 1*).

Kwh per Square Meter. Annual kWh per square meter calculations provide another good wind technology performance indicator. The advantage of this indicator is that it is based on blade swept area, which is a wind turbine specification determined by standard measurements rather than non-standardized kW ratings used to determine capacity factors. Unfortunately, it is still difficult to develop directly comparable kWh per square meter results. This is because the data reported for some turbine models include new turbines which have not had the benefit of a full

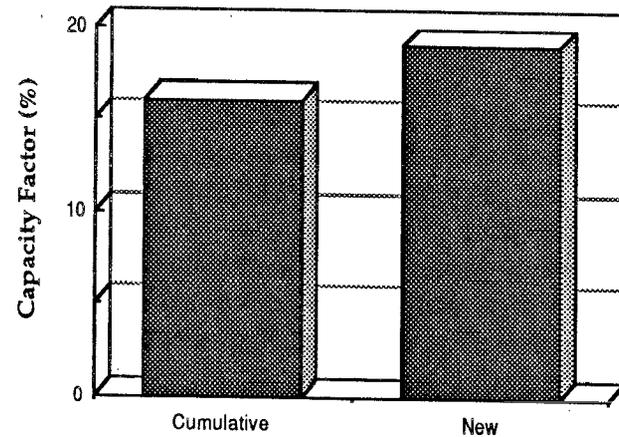


Figure 1: Capacity Factors for New and Cumulative Turbine Stock

operational year. Where any kWh per square meter calculation does not include a full operational year, an asterisk has been marked next to the value on all summary tables. Also note that horizontal and vertical axis turbines are not directly comparable relative to this performance indicator based on what appear to be inherent technical differences. In particular, although vertical axis turbines have a lower capacity factor than horizontal axis turbines, they have a higher kWh per square meter production.

For 1987, the average kWh per square meter annual production was 584 or 23% higher than for 1986 (475). Where turbines installed after 1985 could be isolated, the resulting kWh per square meter increased 8% to 630 (Figure 2).

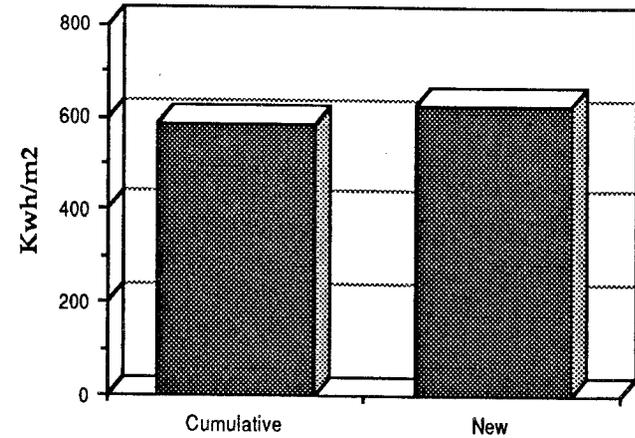


Figure 2: Kwh Per Square Meter Production for New and Cumulative Turbine Stock

5.B INDUSTRY PRODUCTION AND CAPACITY TRENDS

Statewide

The growth rate of wind development has continued to decline in 1987 in response to the expiration of federal and state tax credits at the end of 1985 and 1986 respectively. By the end of 1987, 154 MW of new capacity had been installed bringing the total cumulative capacity to 1,304 MW (Figure 3).

Wind output in 1987 was consistent with the typical California wind resource profile: low winds at the beginning and end of the year with high winds during spring and summer when the heating season creates a natural draw of cool coastal air into hot valleys and deserts. The data showed that almost 75% of all annual output was produced in the second and third quarters of 1987 (Figure 4).

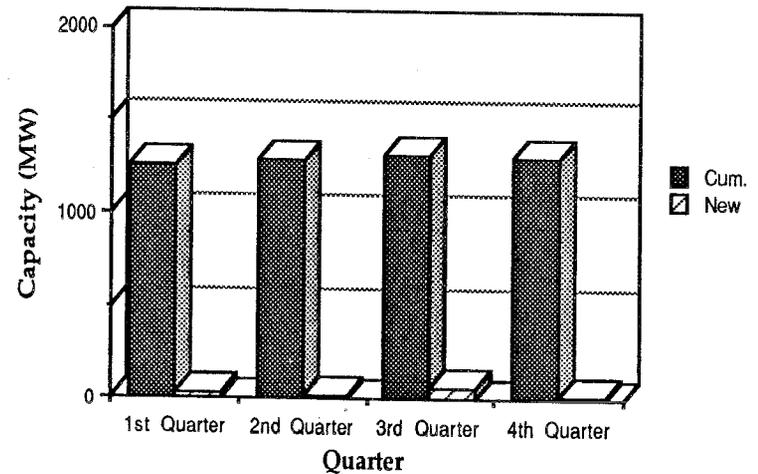


Figure 3: Statewide Wind Capacity

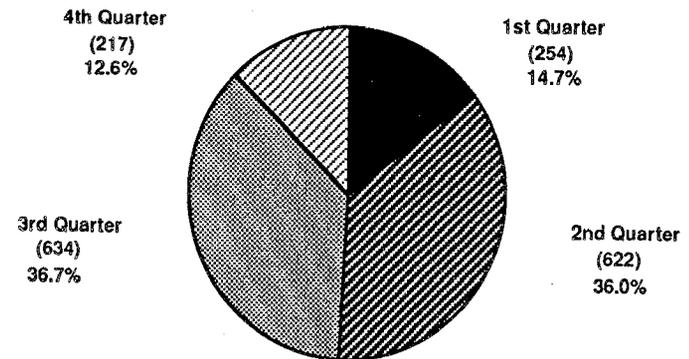


Figure 4: Statewide Wind Output (millions of kwh)

Total output for 1987 was very impressive, increasing more than 40% from 1986 and more than 150% from 1985 (Figure 5). Quarterly capacity factors were consistent with the California wind resource profile just discussed. The capacity factors were 10%, 23%, 23% and 8% respectively for the first, second, third and fourth quarters. These quarterly capacity factors have increased from those of 1986 and 1985 (Figure 6). The annual average statewide capacity factor for 1987, 16%, was a significant jump from the 13% capacity factor for both 1986 and 1985.

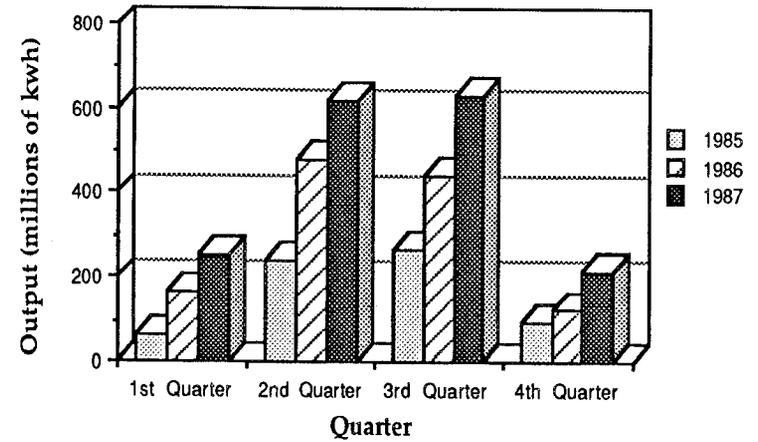


Figure 5: Statewide Wind Output

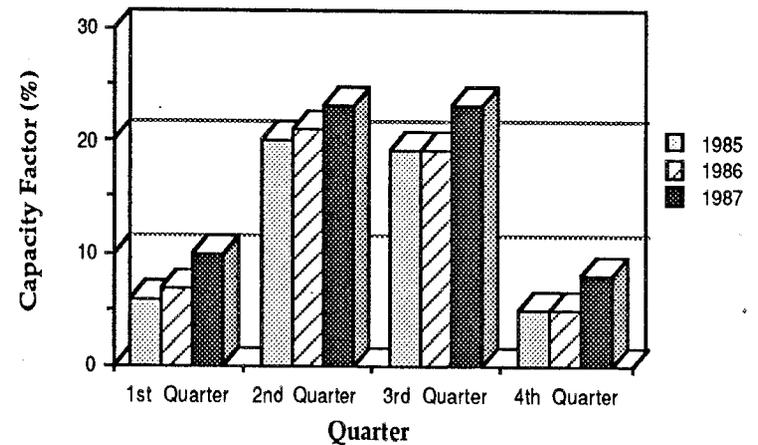


Figure 6: Statewide Capacity Factors

Resource Areas

Although wind projects are reported to WPRS for seven different resource areas in California, virtually 100% of all California capacity and output occurs in three resource areas: Altamont Pass, San Gorgonio Pass and Tehachapi Pass. All three of these areas are narrow mountain passes leading into hot and dry valley or desert regions. Among these three resource areas, 50% of all capacity is in the Altamont Pass. Among the remaining capacity, 20% is in San Gorgonio Pass and 30% is in Tehachapi Pass (Figure 7). Growth as a percent of existing capacity was highest in Altamont (16%) followed by Tehachapi (10%) and San Gorgonio (3%). Quantitatively, almost 70% of all new capacity was developed in the Altamont Pass. The kWh output and percent of total statewide output for each resource area is shown in Figure 8. Compared with the capacity distribution from Figure 7, San Gorgonio (26% output vs. 20% capacity) and Altamont (51% output vs. 50% capacity) produced a greater proportion of output and Tehachapi (23% output vs. 30% capacity) produced a lesser proportion of output.

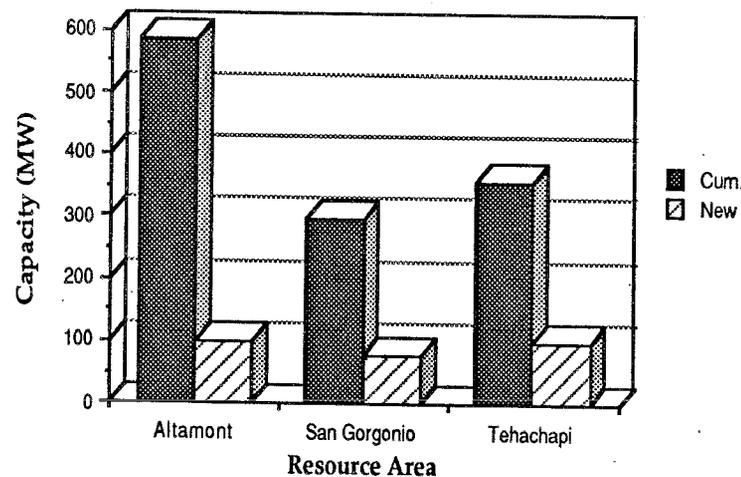


Figure 7: Resource Area Capacity

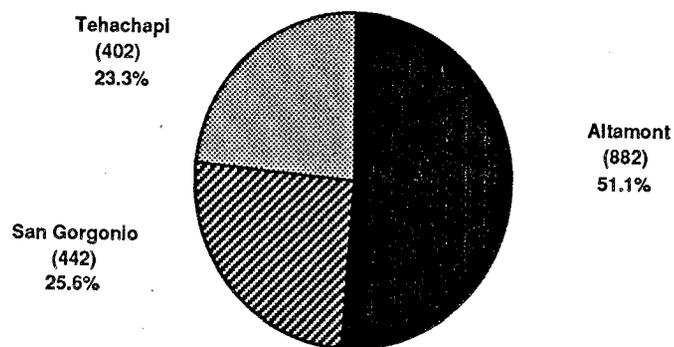


Figure 8: Resource Area Output (millions of kwh)

Among the three largest resource areas, San Gorgonio had the highest capacity factor (20%), followed by Altamont (16%) and Tehachapi (13%) (Figure 9). It is possible that San Gorgonio's higher capacity factor is partly attributed to newer machines in this resource area. This is because many San Gorgonio wind developers met substantial delays getting local government approvals for their projects during early wind development years. In addition, it is important to note that one very large developer significantly impacts Altamont's performance with over 145 MW of capacity with only a 6% capacity factor.

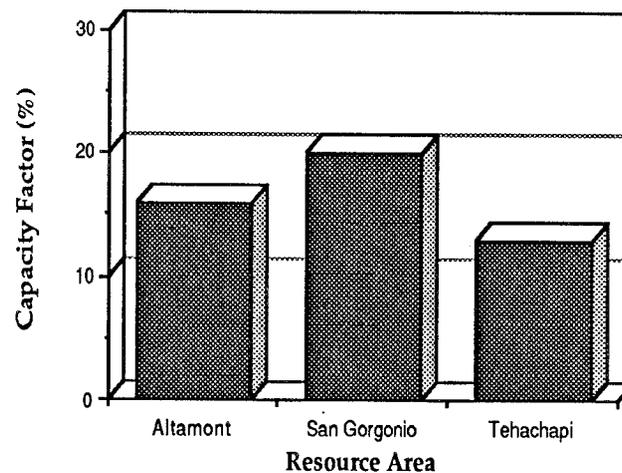


Figure 9: Capacity Factor by Resource Area

Turbine Size

Although many industry specialists predict that turbines in the 300 kW size range will be the trend for future wind development, 1987 data continues to indicate that turbines 51 to 100 kW is still the dominant size category. This turbine size accounted for almost two-thirds of cumulative wind capacity (*Figure 10*). The capacity percentages for all turbine size categories are: 8% for 0 to 50 kW, 62% for 51 to 100 kW, 17% for 101 to 150 kW, 4% for 151 to 200 kW and 9% for greater than 200 kW. It should be noted that the 51-100 and 101-150 size categories alone accounted for the predominantly share of new capacity (82%).

The capacity factors were significantly higher and most improved for the 51-100 and 101-150 turbine size categories (*Figure 11*). The actual capacity factors by turbine size category were: 10% for 0 to 50 kW, 17% for 51 to 100 kW, 20% for 101 to 150 kW, 13% for 151 to 200 kW and 9% for greater than 200 kW.

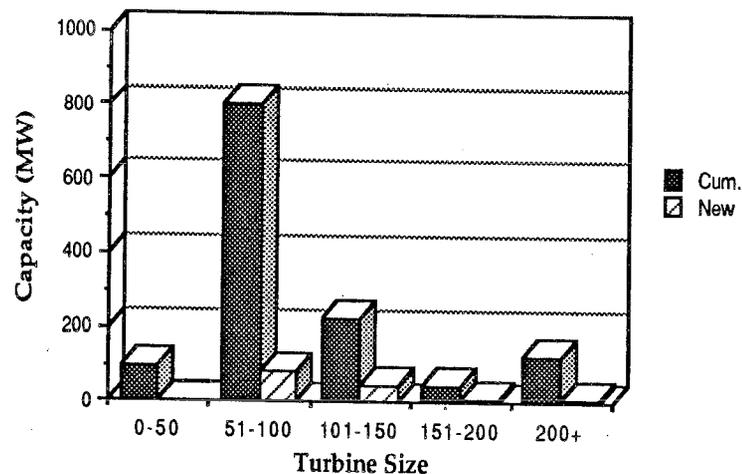


Figure 10: Capacity by Turbine Size

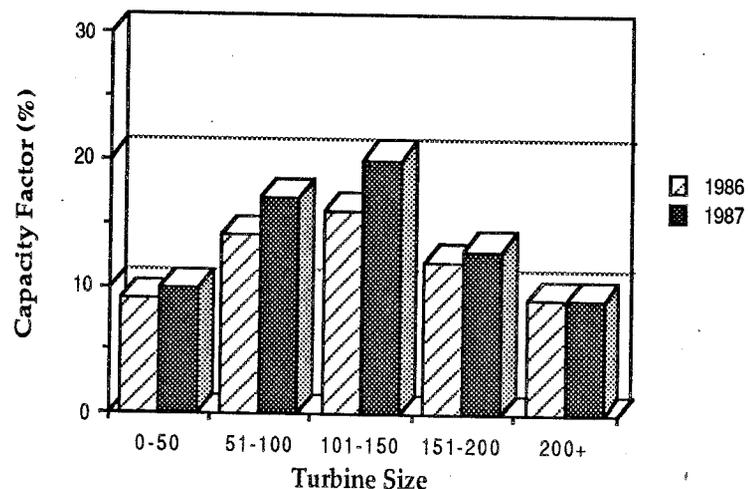


Figure 11: Capacity Factor by Turbine Size

Turbine Types

Based on the data reported, staff was able to differentiate between horizontal and vertical axis machines, but not other important turbine characteristics such as downwind and upwind configurations, number of blades, and braking devices. The data on turbine axis shows that the California wind industry is clearly dominated by horizontal axis machines which accounted for 93% of all capacity and 100% of new capacity (Figure 12). Comparing performance, horizontal axis turbines had a capacity factor of 16% compared to 13% for vertical axis turbines (Figure 13).

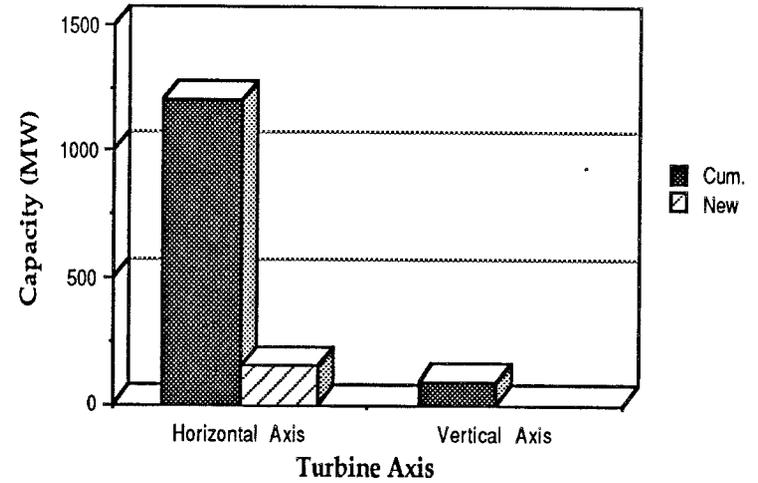


Figure 12: Capacity by Turbine Axis

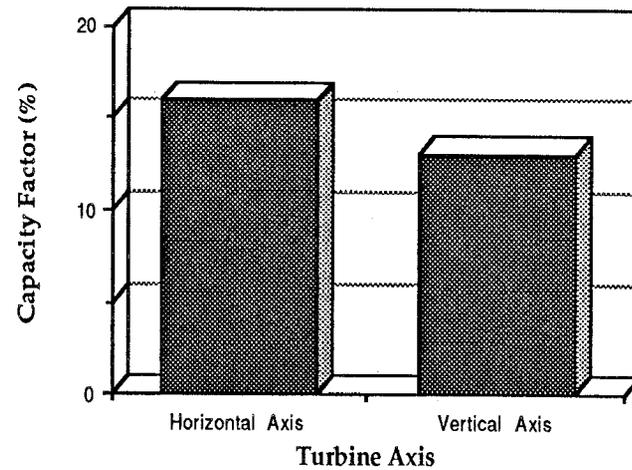


Figure 13: Capacity Factors by Turbine Axis

However, as indicated earlier, even though the capacity factor was lower for vertical axis turbines, they had a higher kWh per square meter performance indicator (698 vs. 577) (Figure 14). This inconsistency indicates that kWh per square meter ratings are not directly comparable among these two turbine types.

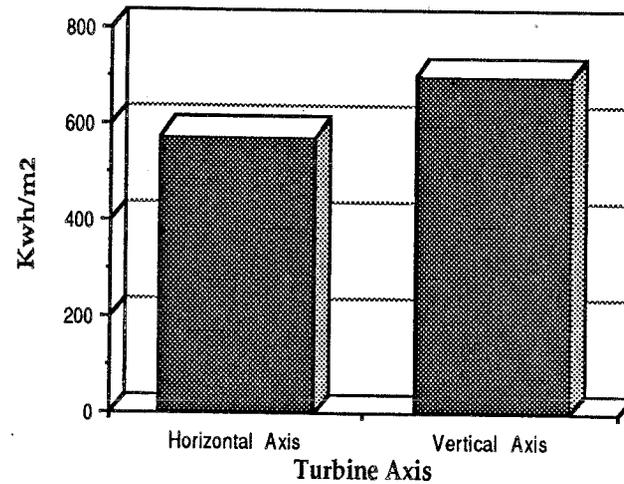


Figure 14: Kwh Per Square Meter Production by Turbine Axis

Domestic and Foreign Turbines

There has been widespread interest in how domestic and foreign turbines compare. At the end of 1987, there were 729 MW of domestic turbine capacity compared to 574 MW of imported foreign turbine capacity. New capacity was very similar with 76 MW of new domestic capacity compared to 78 MW of new foreign turbine capacity (*Figure 15*). These figures indicate that the shift to foreign turbines mentioned in the 1985 and 1986 WPRS annual reports is less evident in 1987. Specifically, the foreign turbine share of total capacity which increased from 33% in 1985 and to 45% at the end of 1986 slipped slightly to 44% at the end of 1987. In addition, new foreign turbine capacity which represented almost 75% of all new 1986 capacity dropped to 51% of all new capacity in 1987 (*Figure 16*).

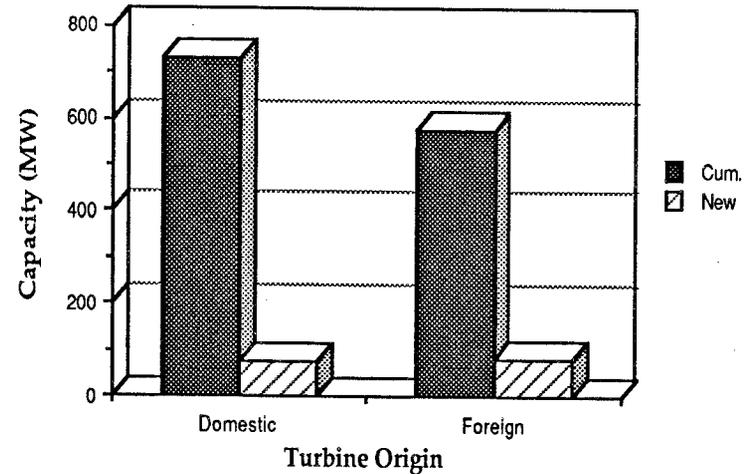


Figure 15: Capacity by Origin

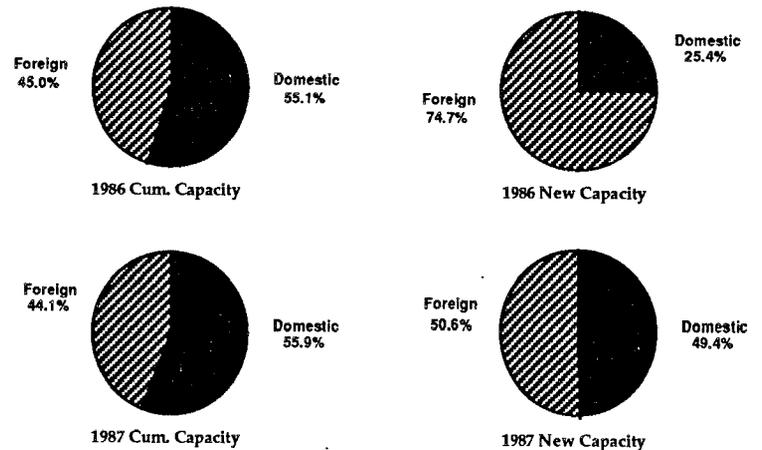


Figure 16: Capacity Distribution by Origin

It is important to note that new foreign turbine capacity since 1985 accounts for over 80% of the total foreign capacity while new domestic capacity from this same two year period represents only 48% of total domestic capacity. Thus, foreign turbine performance results benefit from considerably newer machines. In addition, one large developer with 145 MW in Altamont and only a 6% capacity factor also tends to bring down the domestic performance. In fact, the capacity factor for foreign turbines was 46% higher than for domestic turbines (19% vs. 13%) (Figure 17). When using a kWh per square meter analysis to measure performance, foreign turbines were almost 11% higher than domestic turbines (Figure 18). As indicated above, an important reason why performance indicators are lower for domestic turbines than foreign turbines is the generally older age of domestic turbines. A reason why kWh per square meter performance is much closer compared to capacity factor performance between domestic and foreign turbines is that rated capacities appeared to be overstated for domestic turbines, especially the older models.

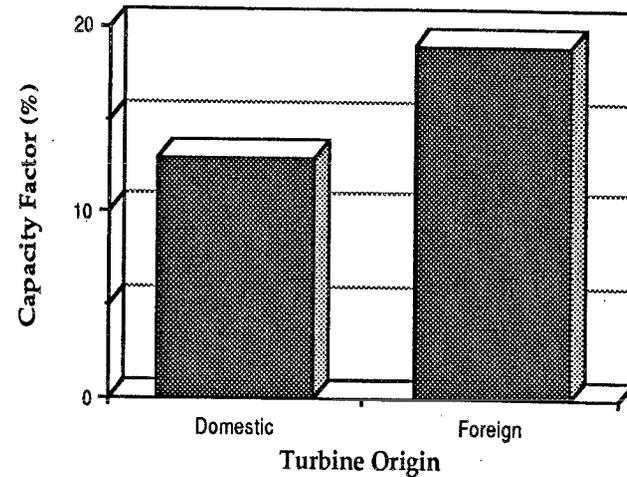


Figure 17: Capacity Factor by Origin

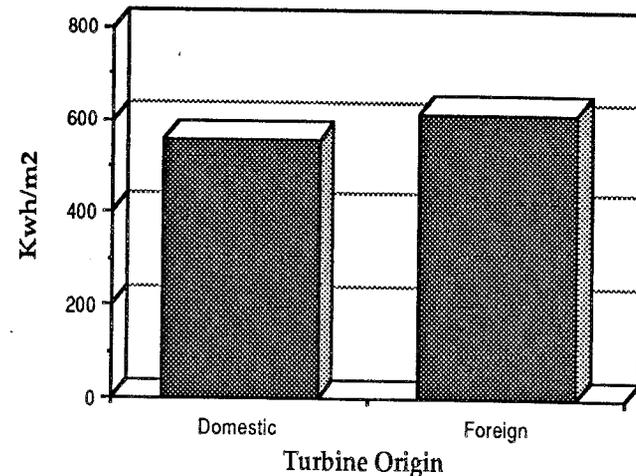


Figure 18: Kwh Per Square Meter Production by Origin

The Ten Largest Wind Turbine Manufacturers

The ten largest wind turbine manufacturers represent almost 85% of the California wind generating capacity. The four largest manufacturers alone (U. S. Windpower, Vestas, Fayette and Micon) account for 56% of all capacity. The ten largest manufacturers and their individual generating capacities are shown in *Figure 19*. There is a wide range of capacity factors among these manufacturers (*Figure 20*). The manufacturers with the highest capacity factors are three Danish machines, Danwin (29%), Bonus (24%), and Micon (21%), and one U.S. machine, U. S. Windpower (20%). It is important to recognize that many factors should be considered when evaluating this data. For instance, U. S. Windpower has a much older turbine base than the Foreign machines.

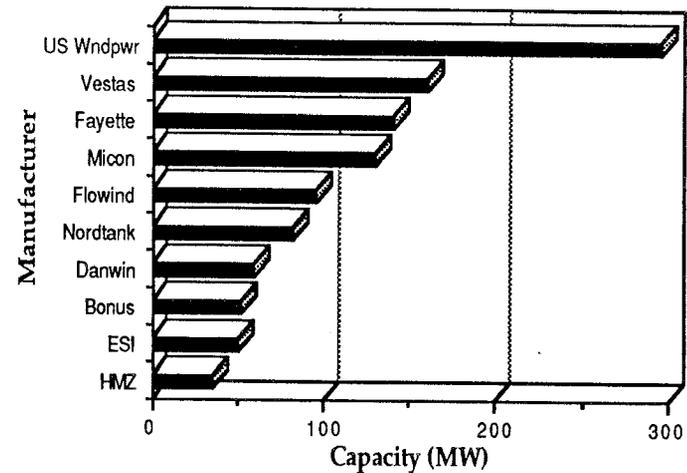


Figure 19: Cumulative Capacity for 10 Largest Turbine Manufacturers

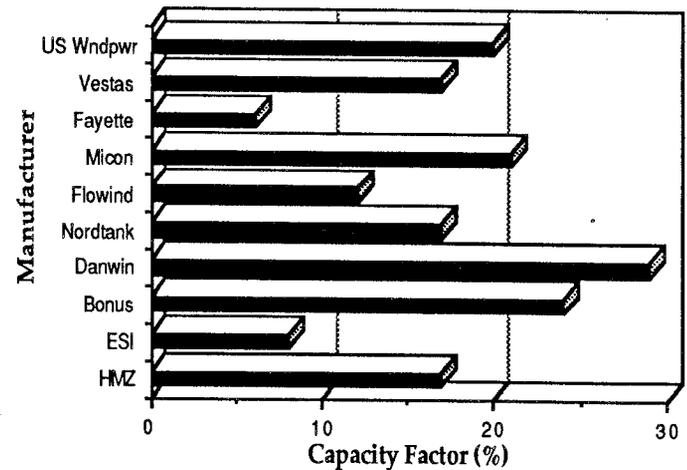


Figure 20: Capacity Factors for 10 Largest Turbine Manufacturers

The annual kWh per square meter results are shown for the ten largest manufacturers in *Figure 21*. The manufacturers with the best results are Danwin (849), HMZ (807) and Flowind (704). Note that the FloWind vertical axis turbine had a high kWh per square meter result, but, as indicated earlier, vertical axis turbine performance relative to this indicator is not consistent with capacity factor performance results.

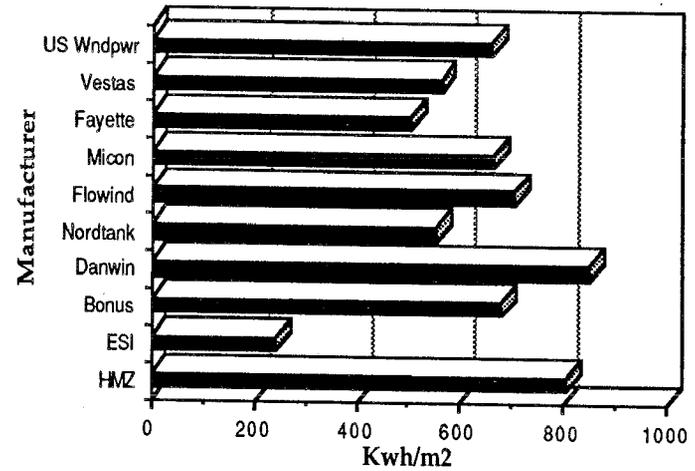


Figure 21: Kwh Per Square Meter Production for 10 Largest Turbine Manufacturers

The Ten Largest Wind Project Operators

Similar to the ten largest wind turbine manufacturers, the ten largest wind project operators represent 85% of the total California wind generating capacity, with the five largest operators (U. S. Windpower, Zond, Fayette, Seawest and FloWind) accounting for almost 70% of all California capacity (Figure 22). Three of these larger project operators are also manufacturers.

Performance for the largest wind project operators, similar to the largest manufacturers, is also quite varied (Figure 23). The operators with the highest capacity factors are Seawest (21%), U. S. Windpower (20%) and Zond (16%). It should also be noted that one smaller operator, San Gorgonio Farms (not shown in Figures 22 and 23), had the highest capacity factors, 34%. This project is significant, because it has consistently demonstrated the potential of wind technology performance when developers combine quality machines and a good wind resource site.

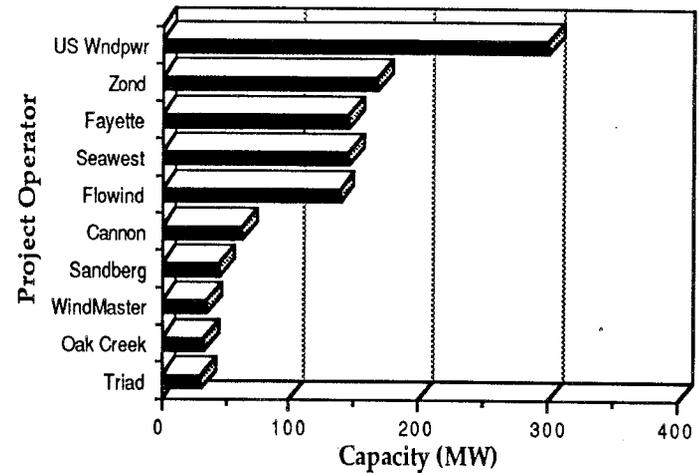


Figure 22: Cumulative Capacity for 10 Largest Project Operators

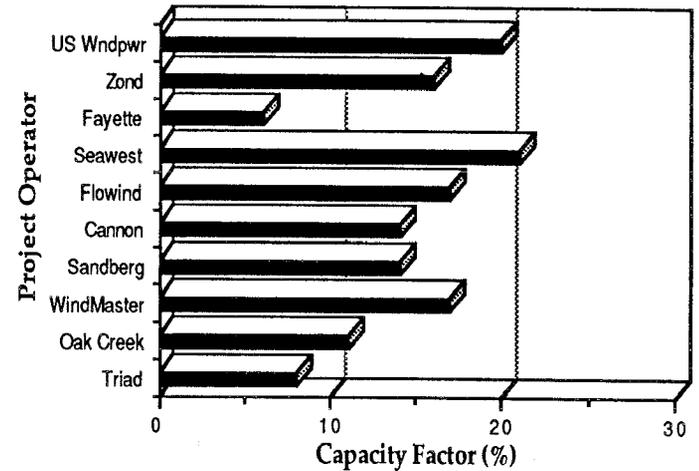


Figure 23: Capacity Factors for 10 Largest Project Operators

Annual kWh per square meter results for the ten largest operators are shown in *Figure 24*. Among these operators, WindMaster (807), FloWind (771), U.S. Windpower (665), and Seawest (652) had the best performance. Note that among all operators, San Gorgonio Farms (not shown on *Figure 24*) again had the best performance with 937 kWh per square meter.

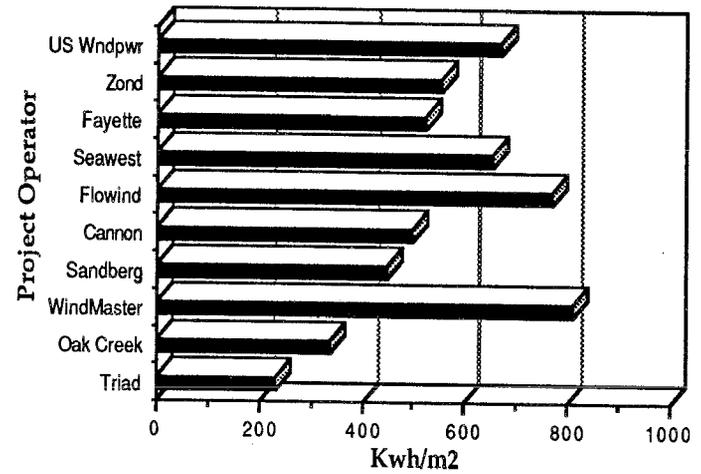


Figure 24: Kwh Per Square Meter Production for 10 Largest Project Operators

5.C WIND PROJECT COSTS

WPRS regulations require operators to submit cost data on all new turbines installed each reporting period. While regulations require operators to report this cost data on a specific project basis, these same regulations restrict the publication of this data to an aggregated format to ensure confidentiality.

Although operators reported 154 megawatts of new 1987 capacity, cost data was only provided for 108 megawatts of this new capacity. Based on the cost data that was reported, the average weighted cost for wind projects was \$1,070/kW. This is substantially less than the average \$1,604/kW reported for 1986 and \$1,887/kW reported for 1985 (Figure 25).

Actual reported costs on an individual project basis varied widely from the average cost, ranging from \$356/kW to \$1420/kW.

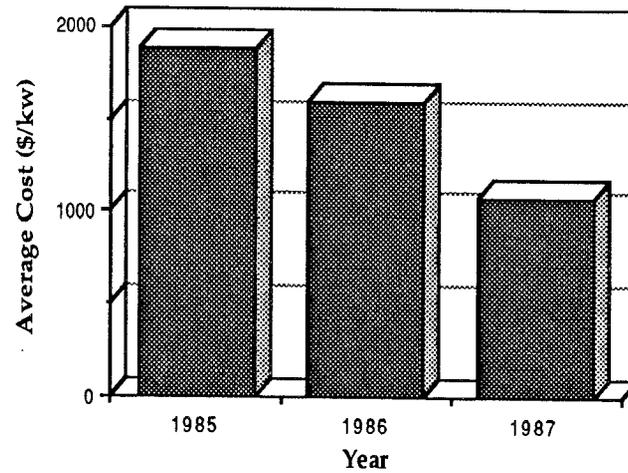


Figure 25: Average Weighted Cost for Wind Projects

6. WPRS ANNUAL SUMMARY TABLES

The tables on the following pages include aggregated data for all wind projects that have submitted 1987 quarterly reports to the California Energy Commission as part of the WPRS program. These tables summarize detailed WPRS data included in Section 7 of this report. In addition to statewide information, the summary tables were designed to provide information for different resource areas, turbine sizes, turbine types, turbine manufacturers, turbine operators and for domestic and foreign turbines. Note that the totals for the various subcategories may not always add up to the statewide totals because there were a few projects where missing data did not allow all information to be sorted completely.

Also note that kWh per square meter results include an asterisk if some portion of the cumulative turbine capacity being considered includes new turbine capacity that did not operate for a full year. It is important to recognize that the negative impact on performance for most turbine groups noted with an asterisk is minimal unless the new turbine capacity represents a significant percentage of cumulative capacity.

1987 WPRS DATA SUMMARY TABLE

Data Category	Cumulative Capacity (kw)	New Capacity (kw)	Output (kwh)	Actual /Proj. Output (%)	Actual Capacity Factor (%)	Kwh /square meter	Cumulative Turbines	New Turbines
=====								
STATEWIDE								
1st Quarter	1,257,009	41,275	253,944,180	58	10	92*	14,669	346
2nd Quarter	1,285,414	28,900	622,203,820	56	23	212*	15,082	287
3rd Quarter	1,321,799	56,725	634,293,669	67	23	208*	15,146	483
4th Quarter	1,303,531	26,640	216,887,491	54	8	71*	14,991	231
1987 Totals	1,303,531	153,540	1,727,329,160	59	16	584*	14,991	1,347
=====								
RESOURCE AREA								

Altamont								
1st Quarter	594,745	33,345	62,296,513	52	5	48*	6,122	264
2nd Quarter	643,860	28,500	329,762,739	64	24	235*	6,749	285
3rd Quarter	647,175	33,275	387,562,974	74	27	267*	6,548	258
4th Quarter	654,150	9,200	102,330,022	81	7	70*	6,615	92
1987 Totals	654,150	104,320	881,952,248	68	16	620*	6,615	899

San Geronio								
1st Quarter	304,227	5,500	85,055,041	70	16	128*	4,282	55
2nd Quarter	286,982	0	162,685,042	51	28	232	4,111	0
3rd Quarter	296,732	0	144,710,880	61	25	207	4,191	0
4th Quarter	254,494	2,880	49,132,341	56	9	72*	3,830	48
1987 Totals	254,494	8,380	441,583,304	60	20	639*	3,830	103

Tehachapi								
1st Quarter	355,942	2,430	106,147,282	52	14	128*	4,191	27
2nd Quarter	352,477	400	129,197,433	43	18	158*	4,156	2
3rd Quarter	375,797	23,450	101,627,631	53	13	116*	4,341	225
4th Quarter	392,792	14,560	65,189,465	32	8	72*	4,480	91
1987 Totals	392,792	40,840	402,161,811	45	13	474*	4,175	345
=====								

* See note at the beginning of this section

1987 WPRS DATA SUMMARY TABLE

Data Category	Cumulative Capacity (kw)	New Capacity (kw)	Output (kwh)	Actual /Proj. Output (%)	Actual Capacity Factor (%)	Kwh /square meter	Cumulative Turbines	New Turbines
=====								
TURBINE SIZE								

0 - 50 kw								
1st Quarter	105,295	0	18,330,957	27	7	43	2,919	0
2nd Quarter	105,210	0	35,324,564	25	14	85	2,915	0
3rd Quarter	101,690	0	40,332,677	24	12	71	1,832	0
4th Quarter	102,885	0	19,452,201	24	5	31	2,863	0
1987 Totals	102,885	0	113,440,399	25	10	230	2,863	0

51 - 100 kw								
1st Quarter	762,686	12,225	146,281,600	58	9	88*	9,222	125
2nd Quarter	799,756	28,500	404,915,825	59	25	228*	9,677	285
3rd Quarter	809,626	30,750	410,568,190	71	25	231*	9,656	328
4th Quarter	804,479	12,080	133,064,884	60	8	75*	9,576	140
1987 Totals	804,479	83,555	1,094,830,499	62	17	622*	9,576	878

101 - 150 kw								
1st Quarter	225,336	23,800	72,447,164	74	16	134*	1,881	200
2nd Quarter	226,056	0	136,994,918	60	27	250	1,887	0
3rd Quarter	244,031	17,975	132,808,925	74	26	224*	2,012	125
4th Quarter	227,035	0	48,628,823	58	10	88	1,862	0
1987 Totals	227,035	41,775	390,879,830	67	20	696*	1,862	325

151 - 200 kw								
1st Quarter	36,080	0	2,597,286	42	4	50	182	0
2nd Quarter	37,280	400	13,488,159	58	18	238*	188	2
3rd Quarter	34,080	0	17,941,241	88	24	340	172	0
4th Quarter	45,760	14,560	4,362,732	27	5	48*	247	91
1987 Totals	45,760	14,960	38,389,418	54	13	676*	185	93

* See note at the beginning of this section

1987 WPRS DATA SUMMARY TABLE

Data Category	Cumulative Capacity (kw)	New Capacity (kw)	Output (kwh)	Actual /Proj. Output (%)	Actual Capacity Factor (%)	Kwh /square meter	Cumulative Turbines	New Turbines
=====								
200+ kw								
1st Quarter	127,612	5,250	14,287,173	44	7	107*	457	21
2nd Quarter	117,112	0	31,480,354	51	13	179	415	0
3rd Quarter	132,372	8,000	32,642,636	65	12	157*	474	30
4th Quarter	123,372	0	11,378,851	41	5	60	443	0
1987 Totals	123,372	13,250	89,789,014	50	9	503	443	51
=====								
TURBINE AXIS								

Horizontal Axis								
1st Quarter	1,160,074	41,275	230,641,518	58	10	90*	14,135	346
2nd Quarter	1,188,479	28,900	583,275,508	56	23	210*	14,556	287
3rd Quarter	1,224,864	56,725	602,999,077	66	24	208*	14,620	483
4th Quarter	1,208,696	26,640	191,446,225	54	8	69*	14,479	231
1987 Totals	1,208,696	153,540	1,608,362,328	59	16	577*	14,479	1,347

Vertical Axis								
1st Quarter	96,935	0	18,951,390	58	9	127	526	0
2nd Quarter	96,935	0	38,774,384	61	18	253	526	0
3rd Quarter	96,935	0	31,189,232	79	15	209	526	0
4th Quarter	94,835	0	16,209,401	53	8	109	512	0
1987 Totals	94,835	0	105,124,407	63	13	698	512	0
=====								

* See note at the beginning of this section

1987 WPRS DATA SUMMARY TABLE

Data Category	Cumulative Capacity (kw)	New Capacity (kw)	Output (kwh)	Actual /Proj. Output (%)	Actual Capacity Factor (%)	Kwh /square meter	Cumulative Turbines	New Turbines
=====								
TURBINE								
MANUFACTURERS								
1987 TOTALS								

Aeroman (Eng)	12,920	0	18,504,885	18	17	493	323	0
Airmaster (USA)	1,000	0	0	-	-	-	10	0
Blue Max (USA)	7,050	0	950,962	16	3	123	157	0
Bonus (Den)	51,800	5,500	102,507,402	67	24	679*	736	55
Bouma (Ger)	5,460	0	3,183,784	1	7	276	42	0
Carter (USA)	12,350	0	17,240,055	36	10	424	368	0
Century (USA)	9,375	0	812,942	-	2	158	110	0
Danwin (Den)	59,085	56,335	79,838,167	83	29	849*	441	416
Dynergy (USA)	14,544	0	235,799	11	1	69	171	0
ESI (USA)	49,840	0	26,094,257	27	8	244	587	0
Enertech (USA)	20,510	0	29,070,083	51	17	434	485	0
Fayette (USA)	139,940	95	69,232,644	34	6	502*	1,400	1
Flowind (USA)	94,835	0	105,121,407	63	12	704	512	0
HMZ (Belgium)	35,800	8,000	51,377,224	73	17	807*	169	10
Howden (Scot)	28,410	0	1,201,462	31	1	19	93	0
Jacobs (USA)	11,705	0	16,306,274	51	16	503	630	0
Lolland (Den)	7,075	0	6,240,676	34	10	342	71	0
MWT (Japan)	5,000	5,000	1,409,894	25	8	144*	20	20
Maetecnic (USA)	900	0	231,952	-	4	144	6	0
Micon (Den)	128,591	0	268,185,941	61	21	666	1,495	0
Nordtank (Den)	81,450	2,880	134,393,143	61	17	554*	990	48
Novenko (USA)	1,950	0	0	-	-	-	30	0
Polenko (Neth)	2,700	0	4,079,195	67	19	628	27	0
Riisager (Ger)	1,170	0	0	-	-	-	13	0
Starwind (USA)	625	0	61,160	-	2	-	5	0
Strm Mstr (USA)	12,620	0	3,638,163	21	5	226	286	0
Sumitomo (Japan)	200	0	0	-	-	-	1	0
US Wndpwr (USA)	295,050	54,200	468,648,343	77	20	659*	3,253	542
Vanguard (USA)	5,700	0	5,805,810	-	15	428	60	0
Vawtpower (USA)	2,100	0	435,000	-	3	39	14	0
Vestas (Den)	161,025	21,280	217,297,033	49	17	561*	2,012	234
WEG (Eng)	5,000	250	10,988,866	88	25	1119*	20	1
Wecs-Tec (USA)	1,985	0	0	-	-	-	30	0
Wenco (Switz)	3,300	0	12,926	-	-	-	19	0
Wincon (USA)	11,016	0	16,899,309	59	17	565	102	0
Windane (USA)	560	0	508,144	-	10	252	14	0
Windmatic (Den)	17,410	0	28,615,991	69	14	477	224	0
Windtech (USA)	9,600	0	2,000,722	14	2	51	128	0
Windworld (Den)	500	0	196,160	-	9	131	5	0
=====								

* See note at the beginning of this section

1987 WPRS DATA SUMMARY TABLE

Data Category	Cumulative Capacity (kw)	New Capacity (kw)	Output (kwh)	Actual /Proj. Output (%)	Actual Capacity Factor (%)	Kwh /square meter	Cumulative Turbines	New Turbines
PROJECT OPERATORS 1987 TOTALS								
Aeolus	-	-	117,279	-	-	-	-	-
Altamont Energy	29,460	0	34,549,110	41	13	180	454	0
Alt.-Amer. Partners	-	-	375,841	-	-	-	-	-
Amer. Divers.	24,730	0	48,503,117	87	27	625	374	0
Amer. Power Sys.	3,705	0	4,662,780	41	14	438	204	0
Arbutus	22,175	0	23,129,208	48	12	304	333	0
Buckeye	660	0	489,202	44	8	209	30	0
CTV	11,320	0	18,062,935	-	18	519	283	0
Cannon	62,060	0	66,597,972	-	14	499	728	0
Casas del Sol	160	0	102,500	37	7	182	4	0
Dollar Energy	4,220	0	1,288,400	21	3	215	76	0
Energy Unlimited	4,915	0	8,963,642	71	21	649	91	0
Energy 21	500	0	392,400	-	9	255	20	0
En. Dev. & Con.	5,200	0	918,000	-	4	58	26	0
Fayette	145,424	95	79,338,704	36	6	522*	1,448	1
Flowind	139,440	41,775	184,925,303	73	17	771*	862	325
Howden	28,410	0	1,201,462	31	1	19	93	0
Liberty Windfarms	3,200	0	950,962	16	3	123	80	0
Natural Resource Ven	8,710	0	12,616,000	53	16	468	134	0
OESC	3,400	0	4,303,212	46	19	359	85	0
Oak Creek	32,630	0	25,524,142	35	11	335	489	0
Ren. Energy Ven.	17,080	0	25,318,560	49	15	491	376	0
Richard Immel	150	0	249,016	-	19	303	6	0
San Gorg. Farms	14,510	5,500	42,551,690	71	34	937*	202	55
Sandberg	45,243	0	44,875,047	47	14	445	410	0
Seawest	144,504	19,560	237,591,511	60	21	652*	1,603	111
So. Cal. Sunbelt	17,610	0	15,672,868	77	12	465	188	0
TERA	8,620	0	2,872,579	9	4	94	146	0
Transworld	16,764	0	0	-	-	-	219	0
Triad Amer. En.	31,480	0	15,429,337	-	8	231	293	0
Universal Prop.	500	0	190,500	-	17	89	10	0
U.S. Windpower	300,050	54,450	479,637,209	77	20	665*	3,273	543
Western Wind	12,423	0	20,058,761	62	18	589	121	0
Wind Farms Man.	2,200	0	624,097	16	5	82	46	0
Wind Gen. Parks	250	0	281,400	56	13	848	1	0
Wind Watt	375	0	0	-	-	-	5	0
Windland	7,325	400	7,751,961	44	14	591*	91	2
WindMaster	35,800	8,000	51,377,224	73	17	807*	169	30
Windridge	2,470	0	2,662,000	29	12	185	38	0
Windustries	6,720	0	9,866,100	44	18	514	144	0
Wintec	22,176	2,880	31,000,596	60	20	607*	605	48
Zephyr	2,250	0	0	-	-	-	30	0
Zond	167,085	20,880	222,306,533	48	16	551*	2,129	232

1987 WPRS DATA SUMMARY TABLE

Data Category	Cumulative Capacity (kw)	New Capacity (kw)	Output (kwh)	Actual /Proj. Output (%)	Actual Capacity Factor (%)	Kwh /square meter	Cumulative Turbines	New Turbines
=====								
DOMESTIC AND FOREIGN TURBINES 1987 TOTALS								

Domestic Turbines								
1st Quarter	700,637	6,975	76,229,347	48	5	58*	8,325	71
2nd Quarter	711,662	28,900	297,816,676	57	21	213*	8,464	287
3rd Quarter	745,831	30,750	314,028,627	64	21	217*	8,733	328
4th Quarter	728,994	9,200	91,351,415	60	6	65*	8,619	92
1987 Totals	728,994	75,825	779,426,065	57	13	553*	8,619	778

Foreign Turbines								
1st Quarter	556,372	34,300	177,639,233	64	16	124*	6,336	275
2nd Quarter	573,752	0	324,254,423	55	26	212	6,618	0
3rd Quarter	575,968	25,975	305,146,722	71	25	200*	6,413	155
4th Quarter	574,537	17,440	116,304,211	49	9	77*	6,372	139
1987 Totals	574,537	77,715	923,344,589	60	19	613*	6,372	569
=====								

* See note at the beginning of this section

7. WPRS DATA

This section of the report includes WPRS 1987 project data as submitted by wind projects operators for all four quarters. In addition, totals are shown for the entire year. The data are organized into separate sections for each resource area. Operators are listed alphabetically within each resource area section and numbered sequentially through this entire WPRS Data section. The following alphabetical listing of wind project operators and participants is keyed to these sequential numbers for quick access to specific wind industry data. After this listing, notes are provided that describe how data are reported. As mentioned earlier, it is important to remember that these data only represent performance results for one year and should not be used as the sole basis for evaluating wind projects.

Alphabetical Listing of Wind Project Operators and Participants

The following alphabetical listing includes all operators and other participants involved in wind projects that reported 1986 data to the WPRS program. The number in parentheses following each operator and other participant refers to the sequential number location in this section.

Aeolus Wind Farms, Inc.	(12A)	Natural Resource Ventures	(39A)
Altamont-Amer. Partners	(1A)	Oak Creek Energy Systems	(40A)
Altamont Energy Corp.	(2A-B)	O.E.S.C.	(21A)
Altech Energy Ltd.	(7A)	PanAero Corp.	(31B)
Altech Energy Ltd., II	(21A)	Phoenix Energy, Ltd.	(25C)
Amer. Diversified Cap. Corp.	(3A-B)	Renewable Energy Ventures	(22A-B)
Amer. Power Systems	(18A)	Richard Immel Wind Farm	(14A)
Arbutus	(32A)	San Gorgonio Farm	(23A)
Buckeye International	(13A)	Sandberg Wind Corp.	(24A-C)
Cali. Wind Energy Sys.	(7B)	Seawest	(3A, 7A-G, 13A, 25A, 41A)
Cannon Financial Group	(34A)	Southern Cali. Sunbelt	(26A, 42A)
Carter Systems	(24C)	TaxVest Wind Farms	(7D,G)
Casas Del Sol	(17A)	TERA Corp.	(8A)
Cathay Wind Inc.	(24C)	Transworld Wind Corp.	(24C)
CCC Alter. Energy Venture	(18A)	Triad American Energy	(27A, 43A)
Coram Energy Group, Ltd.	(33A-D)	Universal Properties	(44A)
CTV Marketing	(33A-D)	U.S. Windpower	(9A-E)
Dollar Energy Sys. Corp.	(35A)	Viking-Energy 83 Ltd.	(7E)
Energy Devel. & Construc. Co.	(19A)	Western Windfarms	(7F, 28A)
Energy Conversion Tech.	(33 A-D)	Wind Farms Mgmnt.	(45A)
Energy 21, Inc.	(16A)	Wind Generator Parks, Inc.	(15A)
Energy Unlimited, Inc.	(20A, 36A)	Windland	(43A, 46A)
Fayette	(4A-I)	WindMaster	(10A)
Flowind Corp.	(5A-B, 37A-B)	Windridge, Inc.	(47A)
Grant Line Energy Corp.	(2A)	Windtech, Inc.	(24C)
Howden Wind Parks, Inc.	(6A)	Windustries	(29A)
Liberty Windfarms	(38A)	Wintec, Ltd.	(30A-F)
Mark Technologies	(24C)	Zond Systems, Inc.	(11A, 31A-B, 44A, 48A-J)

WIND DATA SECTION NOTES

Definitions for most of the wind data categories used in this section are provided in the WPRS regulations included in Appendix C. The discussion below includes other important notes on how data is reported in this section as well as points of clarification.

Data missing. Some operators have submitted incomplete reporting forms. In these cases, the items not completed have been noted as "data missing". It should be noted that operators with missing data are in violation of WPRS regulations.

Electricity Produced. Individual turbine model outputs submitted by wind operators are included for each quarter along with the annual total. In addition, the annual total for the entire project follows after the data for the individual turbine models. Note that the individual turbine model outputs may not always add up to the total project output. This is because individual turbine production is usually read from meters owned by project operators, whereas the total project output is measured from utility substation meters. Line losses and calibration differences between meters should account for these differences. The validation status of output data is noted in the parentheses next to the quarter output reported for each turbine model: "V" indicates that the data has either been

validated by utility billings supplied by the operator or matched utility reported outputs; "NV" indicates operator data was not validated because it did not match any utility billings or utility reported quarterly data, and "UD" indicates that an operator did not report required WPRS information and that the output data comes from data in utility submitted quarterly reports.

Failed to File. Commission staff identified wind project operators that have not reported data but according to utility reports should have participated in the WPRS program. These operators were subsequently notified by mail of the WPRS requirements. Commission staff listed these operators with an indication that they "failed to file" if after sending notification, the identified operators either still did not respond, or did not provide an explanation explaining why they were not required to participate in the WPRS program.

Other Participant(s). In some cases other participants in addition to the listed project operator may be involved in a project. These other participants could include project managers, joint venture partners, wind developers using another developer's site, etc.

Projected Quarterly Production Per Turbine. The total quarterly projected production for a specific turbine model can be determined by multiplying the "Projected Quarterly Production Per Turbine" times the "Cumulative Number of Turbines" for that turbine model. The total quarterly projected production for an entire project can be calculated by adding the projected production totals for all turbine models in a project. This total projected production can be compared to the total project "Electricity Produced" to check how close a specific project came to meeting its projected output. When making this comparison, note any new capacity would not have had the benefit of a full operational quarter for the quarter they were installed.

Rotor (M²). The diameter of the rotor swept area for each wind turbine allows different wind systems to be compared independent of wind resource area. Theoretically, the power available for any wind turbine is proportional to the square of the diameter of the rotor swept area. Thus, doubling the size of the rotor diameter should increase the power output by a factor of four.

Size (kw). For each turbine model listed, the kw size rating is followed by a miles per hour (mph) specification noted in parentheses. As noted earlier, these mph specifications vary widely for different turbine models because there is no standardized rating method.

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity	
						Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)	

ALTAMONT PASS										
(Alameda and Contra Costa)										
1. ALTAMONT-AMERICAN PARTNERS										
5755 Oberlin Drive										
Suite 200										
San Diego, CA 92121										
A. Altamont-American Partners	FAILED TO FILE				1				75,600	
	FAILED TO FILE				2				132,721	
	FAILED TO FILE				3				105,360	
	FAILED TO FILE				4				62,160	
=====										
Project Total:									375,841	
=====										
2. ALTAMONT ENERGY CORP.										
1330 Lincoln Ave.,										
Suite 201										
San Rafael, CA 94901										
A. Jess Ranch	ESI-54	(H)	215	55 kw @	35 mph	1	17,462	0	26	16,160
Other Participant:						2	63,538	0	26	49,547
Grant Line Energy Corp.						3	FAILED TO FILE	TO FILE		15,012,960 *
						4	FAILED TO FILE	TO FILE		3,343,705 *
						Annual	81,000			18,422,372

	ESI-54-S	(H)	215	69 kw @	35 mph	1	20,500	0	109	358,880
						2	72,000	0	109	1,532,800
						3	FAILED TO FILE	TO FILE		- *
						4	FAILED TO FILE	TO FILE		- *
						Annual	92,500			1,891,680

* Output for this failed to file operator is included only under the first listed turbine model of the first listed project

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model -----	Rotor Axis (M2) -----	Size (kw) -----	Quarter; Annual -----	Projected	Turbines		Electricity	
					Quarterly Production Per Turbine This Quarter (kwh) -----	Installed New	Cum. -----	Produced (kwh) -----	
ALTAMONT PASS ----- (Alameda and Contra Costa)									
2. ALTAMONT ENERGY CORP. (Con't.)									
A. Jess Ranch, Con't.									
Nordtank	(H)	200	65 kw @	35 mph	1	20,500	0	75	654,960
					2	72,000	0	75	2,884,408
					3	FAILED	TO	FILE	- *
					4	FAILED	TO	FILE	- *
					Annual	92,500			3,539,368

Vestas	(H)	200	67 kw @	35 mph	1	20,500	0	2	38,120
					2	75,250	0	2	96,445
					3	FAILED	TO	FILE	- *
					4	FAILED	TO	FILE	- *
					Annual	95,750			134,565
=====									
Project Total:								20,644,280	
=====									
B. Souza Ranch									
Enertech	(H)	140	40 kw @	35 mph	1	11,986	0	48	42,725
					2	42,032	0	48	13,759
					3	FAILED	TO	FILE	- *
					4	FAILED	TO	FILE	- *
					Annual	54,018			56,484

Howden	(H)	755	330 kw @	35 mph	1	94,189	0	3	0
					2	330,811	0	3	0
					3	FAILED	TO	FILE	- *
					4	FAILED	TO	FILE	- *
					Annual	425,000			0

* Output for this failed to file operator is included only under the first listed turbine model of the first listed project

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Rotor Size (kw)	Quarter; Annual	Projected	Turbines		Electricity	
						Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)	
ALTAMONT PASS ----- (Alameda and Contra Costa)										
2. ALTAMONT ENERGY CORP. (Con't.)										
B. Souza Ranch, Con't.	Nordtank	(H)	200	65 kw @	35 mph	1	19,941	0	186	2,205,760
						2	72,559	0	186	8,102,721
						3	FAILED	TO	FILE	- *
						4	FAILED	TO	FILE	- *
						Annual	92,500			10,308,481

Windworld	(H)	300	100 kw @	35 mph		1	0	0	0	25,440
						2	0	0	0	170,720
						3	FAILED	TO	FILE	- *
						4	FAILED	TO	FILE	- *
						Annual	0			196,160
=====										
Project Total:									10,561,125	
=====										

3. AMERICAN DIVERSIFIED CAPITAL CORP.

3200 Park Center Drive
Suite 1500
Costa Mesa, CA 92626

Other Participant: Seawest Energy	A. American Diversified Wind Partners	WPS 20-100	(H)	302	100 kw @	29 mph	1	FAILED	TO	FILE	4,179,600 *
							2	50,800	0	12	647,997
							3	53,600	0	12	945,749
							4	8,700	0	12	161,422
							Annual	113,100			5,934,768

* Output for this failed to file operator is included only under the first listed turbine model of the first listed project

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model -----	Rotor Axis -----	Rotor Size (M2) -----	Size (kw) -----	Quarter; Annual	Projected	Turbines Installed New Cum.	Electricity Produced (kwh) -----
						Quarterly Production Per Turbine This Quarter (kwh) -----		
ALTAMONT PASS ----- (Alameda and Contra Costa)								
3. AMERICAN DIVERSIFIED CORP. (Con't.)								
A. American Diversified Wind Partners, Con't.	Windmatic 14-65 (H)	154	65 kw @	35 mph	1	FAILED	TO FILE	- *
					2	31,125	0 26	971,995
					3	33,375	0 26	862,313
					4	6,840	0 26	237,641
					Annual	71,340		2,071,949
Project Total:								8,006,717
B. Windfarm II	Bonus 65	(H) 181	65 kw @	38 mph	1	FAILED	TO FILE	- *
					2	57,088	0 211	11,274,462
					3	57,247	0 211	11,759,926
					4	22,202	0 211	3,257,473
					Annual	136,537		26,291,861
	Nordtank 65/13 (H)	201	65 kw @	35 mph	1	FAILED	TO FILE	- *
					2	63,050	0 125	6,178,338
					3	63,226	0 125	6,297,674
					4	24,520	0 125	1,728,527
					Annual	150,796		14,204,539
Project Total:								40,496,400

* Output for this failed to file operator is included only under the first listed turbine model of the first listed project

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity	
						Quarterly Production Per Turbine This Quarter (kwh)	New	Cum.	Produced (kwh)	

ALTAMONT PASS										

(Alameda and Contra Costa)										
4. FAYETTE										
P.O. Box 1149										
Tracy, CA 95378										

A. Castello Windranch	Fayette 95IIS	(H)	95	95 kw @	37 mph	1	7,000	0	8	1,358,467
						2	64,400	0	8	258,375
						3	61,600	0	8	286,235
						4	7,000	0	8	28,640
						-----	-----	-----	-----	-----
						Annual	140,000			1,931,717
=====										
						Project Total:				1,931,717
=====										
B. Fayette Wind Farms	Bonus 120/20	(H)	296	120 kw @	34 mph	1	15,000	0	14	191,692
						2	138,000	0	14	1,273,985
						3	132,000	0	14	1,353,215
						4	15,000	0	14	344,546
						-----	-----	-----	-----	-----
						Annual	300,000			3,163,438

	Fayette 400kw	(H)	374	400 kw @	44 mph	1	30,000	0	2	0
						2	276,000	0	2	0
						3	264,000	0	2	0
						4	30,000	0	2	0
						-----	-----	-----	-----	-----
						Annual	600,000			0

	Fayette 75IIS	(H)	85	75 kw @	40 mph	1	6,000	0	36	32,202
						2	55,200	0	28	316,621
						3	52,800	0	28	338,895
						4	6,000	0	19	36,149
						-----	-----	-----	-----	-----
						Annual	120,000			723,867

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity	
						Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)	
ALTAMONT PASS										

(Alameda and Contra Costa)										
4. FAYETTE (Con't.)										
B. Fayette Wind Farms, Con't.	Fayette 75IS	(H)	85	75 kw @	48 mph	1	5,000	0	4	6,890
						2	46,000	0	4	28,836
						3	44,000	0	4	49,370
						4	5,000	0	4	10,003
						Annual	100,000			95,099

	Fayette 95IIS	(H)	95	95 kw @	37 mph	1	7,000	0	1129	1,358,467
						2	64,400	0	1107	26,926,987
						3	61,600	0	1107	26,830,057
						4	7,000	0	1129	2,947,398
						Annual	140,000			58,062,909

	Micon M110/US	(H)	293	108 kw @	33 mph	1	15,000	0	8	0
						2	138,000	0	8	616,296
						3	132,000	0	8	693,800
						4	15,000	0	8	171,862
						Annual	300,000			1,481,958
=====										
	Project Total:									65,458,988
=====										
C. Wind Energy Technology Associates II (WETA II)	Fayette 400kw	(H)	374	400 kw @	44 mph	1	30,000	0	23	25,997
						2	276,000	0	23	463,275
						3	264,000	0	23	166,806
						4	30,000	0	23	0
						Annual	600,000			656,078

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)	
ALTAMONT PASS										
(Alameda and Contra Costa)										
4. FAYETTE (Con't.)										
C. Wind Energy Technology Associates II (WETA II), Con't.	Fayette 95IIS	(H)	95	95 kw @	37 mph	1	7,000	1	33	42,770
						2	64,400	0	32	879,644
						3	61,600	0	32	851,163
						4	7,000	0	32	102,460
						Annual	140,000			1,876,037
=====										
	Project Total:									2,532,115
=====										
D. Wind Energy Technology Associates III (WETA III)	Bonus 120/20	(H)	296	120 kw @	29 mph	1	15,000	0	11	175,506
						2	138,000	0	11	1,051,526
						3	132,000	0	11	1,131,657
						4	15,000	0	11	284,373
						Annual	300,000			2,643,062

	Fayette 95IIS	(H)	95	95 kw @	37 mph	1	7,000	0	19	30,883
						2	64,400	0	19	574,293
						3	61,600	0	19	295,950
						4	7,000	0	19	22,946
						Annual	140,000			924,072

	Micon M110/US	(H)	293	108 kw @	33 mph	1	15,000	0	15	178,934
						2	138,000	0	15	1,110,337
						3	132,000	0	15	1,214,894
						4	15,000	0	15	313,437
						Annual	300,000			2,817,602
=====										
	Project Total:									6,384,736
=====										

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity	
						Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)	
ALTAMONT PASS ----- (Alameda and Contra Costa)										
4. FAYETTE (Con't.)										
E. Wind Energy Partners I	Fayette 75IIS	(H)	85	75 kw @	40 mph	1	6,000	0	30	11,633
						2	55,200	0	30	251,448
						3	52,800	0	30	387,561
						4	6,000	0	30	49,465
						Annual	120,000			700,107
=====										
	Project Total:									700,107
=====										
F. Wind Energy Partners II	Fayette 75IIS	(H)	85	75 kw @	40 mph	1	6,000	0	78	62,353
						2	55,200	0	78	644,916
						3	52,800	0	78	901,883
						4	6,000	0	78	126,588
						Annual	120,000			1,735,740
=====										
	Project Total:									1,735,740
=====										
G. Wind Energy Partners III	Fayette 75IIS	(H)	85	75 kw @	40 mph	1	6,000	0	10	18,608
						2	55,200	0	10	121,323
						3	52,800	0	10	141,721
						4	6,000	0	10	26,566
						Annual	120,000			308,218

	Fayette 95IIS	(H)	95	95 kw @	37 mph	1	7,000	0	23	0
						2	64,400	0	23	0
						3	61,600	0	23	141,359
						4	7,000	0	23	28,118
						Annual	140,000			169,477
=====										
	Project Total:									477,695
=====										

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)

ALTAMONT PASS									

(Alameda and Contra Costa)									
4. FAYETTE (Con't.)									
H. Windranch Partners I	Fayette 9511S	(H)	95	95 kw @	37 mph	1	0	17	16,747
						2	0	17	259,402
						3	0	17	276,245
						4	0	17	28,016
						Annual			580,410
							140,000		
Project Total:									580,410
=====									
I. Windranch Partners II	Fayette 9511S	(H)	95	95 kw @	37 mph	1	0	37	48,637
						2	0	37	601,976
						3	0	37	745,335
						4	0	37	72,965
						Annual			1,468,913
							140,000		
Project Total:									1,468,913
=====									
5. FLOWIND CORPORATION									
1183 Quarry Lane									
Pleasanton, CA 94566									
A. FloWind I (Dyer Road)	Flowind 17	(V)	260	143 kw @	44 mph	1	0	75	1,101,353
						2	0	75	4,252,981
						3	0	75	4,456,651
						4	0	75	1,538,388
						Annual			11,349,373
							150,781		

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity	
						Quarterly Production Per Turbine (kwh)	Installed New	Cum.	Produced (kwh)	
ALTAMONT PASS										
(Alameda and Contra Costa)										
5. FLOWIND CORPORATION (Con't.)										
A. FloWind I (Dyer Road), Con't.	Flowind 19	(V)	340	250 kw @	38 mph	1	30,717	0	1	24,947
						2	120,642	0	1	94,906
						3	91,688	0	1	93,826
						4	27,338	0	1	31,403
						Annual	270,385			245,082
Project Total:									11,594,455	
B. FloWind II (Elworthy)	Danwin H19	(H)	284	110 kw @	30 mph	1	31,325	0	23	553,543
						2	108,504	0	25	2,584,920
						3	120,401	0	25	2,708,326
						4	32,207	0	25	801,055
						Annual	292,437			6,647,844
Danwin H23	(H)	302	119 kw @	29 mph	1	36,850	200	200	4,368,468	
					2	123,950	0	200	23,022,793	
					3	121,544	25	225	30,916,792	
					4	34,940	0	225	8,984,725	
					Annual	317,284			67,292,778	
Danwin H24	(H)	415	150 kw @	29 mph	1	0	0	0	0	
					2	0	0	0	0	
					3	67,671	100	100	2,912,374	
					4	46,523	0	100	2,963,410	
					Annual	114,194			5,875,784	

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)	
ALTAMONT PASS										
(Alameda and Contra Costa)										
5. FLOWIND CORPORATION (Con't.)										
B. Flowind II (Elworthy), Con't.	Flowind 17	(V)	260	142 kw @	44 mph	1	23,957	0	73	1,281,272
						2	107,527	0	73	6,256,715
						3	113,070	0	73	6,276,566
						4	24,342	0	73	1,272,665
						Annual	268,896			15,087,218
	Flowind 19	(V)	340	250 kw @	38 mph	1	40,134	0	19	456,317
						2	187,009	0	19	3,008,445
						3	190,559	0	19	2,852,269
						4	40,134	0	19	514,945
						Annual	457,836			6,831,976
Project Total:									101,735,600	
6. HOWDEN WIND PARKS, INC.										
3685 Mt. Diablo Blvd., Suite 251										
Lafayette, CA 94901										
A. Howden Wind Park I	Howden 330/31	(H)	756	330 kw @	34 mph	1	0	0	82	0
						2	0	0	82	344,654
						3	0	0	82	602,640
						4	0	0	82	254,168
						Annual	0			1,201,462
	Howden 60/15	(H)	177	60 kw @	34 mph	1	0	0	10	0
						2	0	0	10	0
						3	0	0	10	0
						4	0	0	10	0
						Annual	0			0

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
ALTAMONT PASS								
(Alameda and Contra Costa)								
6. HOWDEN WIND PARKS, INC. (Con't.)								
A. Howden Wind Park I, Con't.	Howden 750/45	(H) 1590	750 kw @ 34 mph	1	0	0	1	0
				2	0	0	1	0
				3	0	0	1	0
				4	0	0	1	0
				Annual	0			0
Project Total:								1,201,462
7. SEAWEST ENERGY GROUP								
1455 Frazee Road								
Suite 300								
San Diego, CA 92108								
Other Participant:	A. Altech Energy, Ltd.	Enertech 44/40	(H) 140	40 kw @ 30 mph	1	9,700	0	144
Altech Energy, Ltd.				2	30,900	0	144	2,791,712
				3	30,300	0	144	4,637,666
				4	9,100	0	144	1,222,868
				Annual	80,000			9,120,889
Project Total:								9,120,889
Other Participant:	B. C.W.E.S. Ltd.	ESI 54	(H) 211	50 kw @ 30 mph	1	9,800	0	30
California Wind Energy Systems, Ltd.				2	31,300	0	30	70,732
				3	30,370	0	30	288,658
				4	9,200	0	30	5,436
				Annual	80,670			428,383
Project Total:								428,383

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)	
ALTAMONT PASS										
(Alameda and Contra Costa)										
7. SEAWEST ENERGY GROUP (Con't.)										
C. Seawest Energy Group, Inc.	Micon 60/13	(H)	200	60 kw @	33 mph	1	14,100	0	1	11,270
						2	47,800	0	1	50,554
						3	47,000	0	1	56,670
						4	14,100	0	1	15,400
						Annual	123,000			133,894
Project Total:									133,894	
D. TaxVest Windfarms, Inc. II	Micon 60/13	(H)	200	60 kw @	33 mph	1	13,700	0	11	88,535
Other Participant:						2	43,600	0	11	427,904
TaxVest Windfarms, Inc. II						3	42,900	0	11	486,940
						4	12,800	0	11	135,559
						Annual	113,000			1,138,938
Project Total:									1,138,938	
E. Viking-83	Micon 60/13	(H)	200	60 kw @	33 mph	1	14,300	0	26	222,781
Other Participant:						2	45,500	0	26	1,045,188
Viking-Energy 83, Ltd.						3	44,800	0	26	1,227,600
						4	13,400	0	26	342,426
						Annual	118,000			2,837,995
Project Total:									2,837,995	
F. Astroseal, Battlement	Micon 65/13	(H)	200	65 kw @	30 mph	1	29,580	0	8	59,868
Other Participant:						2	126,324	0	8	269,905
Western Windfarms						3	156,600	0	8	268,100
						4	35,496	0	8	92,227
						Annual	348,000			690,100
Project Total:									690,100	

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)	
ALTAMONT PASS									
(Alameda and Contra Costa)									
7. SEAWEST ENERGY GROUP (Con't.)									
G. Taxvest Windfarm 174	Micon 60/13	(H) 200	60 kw @	33 mph	1	13,700	0	167	1,604,548
Other Participant:					2	43,600	0	174	7,328,550
Taxvest Windfarm 174					3	42,900	0	174	8,080,836
					4	12,800	0	174	2,410,215
					Annual	113,000			19,424,149
Project Total:								19,424,149	
8. TERA CORPORATION									
2150 Shattuck Ave.									
Berkeley, CA 94704									
A. Delta Energy Project	ESI 54	(H) 211	50 kw @	30 mph	1	42,400	0	58	54,365
					2	63,600	0	58	174,890
					3	63,600	0	58	969,278
					4	42,400	0	58	6,366
					Annual	212,000			1,204,899
	ESI 54S	(H) 211	65 kw @	39 mph	1	46,400	0	88	360,384
					2	69,600	0	87	1,060,675
					3	69,600	0	87	5,255
					4	46,400	0	88	241,366
					Annual	232,000			1,667,680
Project Total:								2,872,579	

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
ALTAMONT PASS								
(Alameda and Contra Costa)								
9. U.S. WINDPOWER								
500 Sansome Street, Suite 600								
San Francisco, CA 94111								
A. Dyer Road	USW 56-100	(H) 230	100 kw @	29 mph	1	21,000	0 243	4,584,522
					2	81,900	0 243	20,365,426
					3	86,100	0 243	22,476,310
					4	21,000	0 243	6,010,247
					Annual	210,000		53,436,505
	USW 56-50	(H) 230	50 kw @	22 mph	1	15,000	0 198	601,078
					2	58,500	0 198	1,048,974
					3	61,500	0 198	206,490
					4	15,000	0 198	9,753
					Annual	150,000		1,866,295
Project Total:								55,302,800
B. Frick	USW 56-100	(H) 230	100 kw @	29 mph	1	0	0 0	0
					2	0	0 0	0
					3	86,100	43 43	791,035
					4	21,000	0 43	1,540,800
					Annual	107,100		2,331,835
Project Total:								2,331,835
C. Midway Road	USW 56-100	(H) 230	100 kw @	29 mph	1	21,000	23 1,006	16,555,243
					2	81,900	79 1,085	81,971,199
					3	86,100	0 1,085	89,081,736
					4	21,000	47 1,132	25,277,008
					Annual	210,000		212,885,186

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)	
ALTAMONT PASS									
(Alameda and Contra Costa)									
9. U.S. WINDPOWER (Con't.)									
C. Midway Road, Con't.	USW 56-50	(H) 230	50 kw @	22 mph	1	15,000	0	407	346,450
					2	58,500	0	407	1,259,403
					3	61,500	0	407	394,312
					4	15,000	0	407	30,351
					Annual	150,000			2,030,516
	WEG MS-2	(H) 491	250 kw @	33 mph	1	62,454	1	20	842,259
					2	256,065	0	20	3,971,078
					3	237,329	0	20	4,751,932
					4	68,700	0	20	1,423,597
					Annual	624,548			10,988,866
	Project Total:								225,904,568
D. Ralph	USW 56-100	(H) 230	100 kw @	29 mph	1	21,000	19	125	1,137,600
					2	81,900	206	331	18,662,400
					3	86,100	80	411	33,585,600
					4	21,000	45	456	8,630,400
					Annual	210,000			62,016,000
	Project Total:								62,016,000
E. Vasco Road	USW 56-100	(H) 230	100 kw @	29 mph	1	21,000	0	774	10,054,800
					2	81,900	0	774	51,775,200
					3	86,100	0	774	57,373,200
					4	21,000	0	774	14,878,800
					Annual	210,000			134,082,000
	Project Total:								134,082,000

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity	
						Quarterly Production Per Turbine (kwh)	Installed	Produced (kwh)		
						This Quarter	New	Cum.		

ALTAMONT PASS										

(Alameda and Contra Costa)										
10. WINDMASTER										
Rt. 1, P.O. Box 6C										
Byron, CA 94514										
A. Windmaster	HMZ 200kw	(H)	373	200 kw @	33 mph	1	44,100	0	139	2,597,286
						2	172,050	0	129	13,014,789
						3	145,400	0	139	17,733,981
						4	40,750	0	139	4,122,411
						Annual	402,300			37,468,467

	HMZ 225kw	(H)	373	225 kw @	33 mph	1	44,100	0	10	105,427
						2	172,050	0	10	1,465,172
						3	0	0	0	0
						4	0	0	0	0
						Annual	216,150			1,570,599

	HMZ 250kw	(H)	415	250 kw @	33 mph	1	20,000	20	20	224,093
						2	215,063	0	20	2,887,543
						3	223,000	0	20	3,283,930
						4	62,000	0	20	874,205
						Annual	520,063			7,269,771

	HMZ 300kw	(H)	491	300 kw @	33 mph	1	0	0	0	0
						2	0	0	0	0
						3	267,600	10	10	579,691
						4	75,000	0	10	4,260,000
						Annual	342,600			4,839,691

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Axis	Rotor (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
ALAMONT PASS									
(Alameda and Contra Costa)									
10. WINDMASTER (Con't.)									
A. Windmaster, Con't.	HMZ 50kw	(H)	373	50 kw @	22 mph	1	0	5	70,696
						2	0	5	158,000
						3	0	0	0
						4	0	0	0
						Annual			228,696
									49,000
Project Total:									51,377,224
11. ZOND SYSTEMS, INC.									
112 South Curry Street									
Tehachapi, CA 93561									
A. Santa Clara	Vestas 17	(H)	227	100 kw @	45 mph	1	0	200	3,332,177
						2	0	200	12,962,878
						3	0	200	15,993,873
						4	0	200	4,735,671
						Annual			37,024,599
									233,025
Project Total:									37,024,599

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine (kwh)	Installed New	Cum.	Produced (kwh)
BOULEVARD									
(San Diego)									
12. AEOLUS WIND FARMS									
38145 Old Hwy 80									
Boulevard, CA 92005									
A. Aeolus Wind Farms	FAILED TO FILE				1				96,072
	FAILED TO FILE				2				21,207
	FAILED TO FILE				3				0
	FAILED TO FILE				4				0

									117,279
									=====
									Project Total:
									117,279
									=====
13. BUCKEYE INTERNATIONAL									
1455 Frazee Rd.									
Suite 300									
San Diego, CA 92108									
A. California Wind Energy, Ltd.	Micon 22	(H)	78	22 kw @ 37 mph	1	12,100	0	30	167,068
Other Participant:					2	11,000	0	30	152,281
Seawest Energy					3	5,800	0	30	83,012
					4	8,300	0	30	86,841

					Annual	37,200			489,202
									=====
									Project Total:
									489,202
									=====

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine (kwh)	Installed New	Cum.	Produced (kwh)
BOULEVARD ----- (San Diego)									
14. RICHARD T. IMMEL WIND FARM 3911 Via del Campo San Clemente, CA 92672									
A. Immel Wind Farm	Enertech 44/25	(H)	137	25 kw @ 30 mph	1	0	0	6	71,504
					2	0	0	6	76,418
					3	0	0	6	57,572
					4	0	0	6	43,522
					Annual	0			249,016
=====									
Project Total:									249,016
=====									

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)
CARQUINEZ STRAIT									
(Solano, Contra Costa)									
15. WIND GENERATOR PARKS, INC.									
7 Wolfback Ridge Road									
Sausalito, CA 94965									
A. Wind Generator Parks, Inc.	Carter 250	(H)	332	250 kw @ 42 mph	1	75,000	0	1	21,000
					2	175,000	0	1	121,800
					3	175,000	0	1	89,400
					4	75,000	0	1	49,200
					Annual	500,000			232,200
Project Total:									232,200

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine (kwh)	Installed New	Cum.	Produced (kwh)
PACHECO PASS -----									
(Merced)									
16. ENERGY 21									
18 Eastwood Court									
Oakland, CA 94611									
A. Energy 21	Carter	(H)	77	25 kw @ 30 mph	1	0	0	20	73,200
					2	0	0	20	143,400
					3	0	0	20	127,200
					4	0	0	20	48,600
					Annual	0			392,400
Project Total:									392,400

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)
SALINAS VALLEY									
(Monterey)									
17. CASAS DEL SOL									
P.O. Box 89									
Pacific Grove, CA 93950									
A. Herbert Ranch #1	Enertech 44/40	(H)	141	40 kw @ 30 mph	1	10,780	0	4	16,500
					2	26,250	0	4	43,500
					3	23,170	0	4	35,000
					4	9,806	0	4	7,500
					Annual	70,006			102,500
Project Total:									102,500

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine This Quarter (kwh)	Installed	Produced	
							New	Cum.	(kwh)
SAN GORGONIO PASS									
(Riverside)									
18. AMERICAN POWER SYSTEMS, INC.									
26 Linda Isle									
Newport Beach, CA 92660									
Other Participant: CCC Alternative Energy Ventures	A. Jacoby - Kerr Wind Park (formerly part of Earth Energy Systems)	Jacobs 26-17.5 @ (H)	49	18 kw @ 27 mph	1	10,346	0	16	77,812
					2	20,777	0	16	152,928
					3	16,416	0	16	112,484
					4	8,037	0	16	48,609
					Annual	55,576			391,833

	Jacobs 26-17.5 @ (H)	49	18 kw @ 27 mph	1	9,500	0	134	749,268	
2				19,836	0	134	1,070,496		
3				15,646	0	134	687,749		
4				7,182	0	134	261,372		
Annual				52,164			2,768,885		

	Jacobs 29-20	(H)	61	20 kw @ 27 mph	1	12,200	0	54	389,719
2					26,565	0	54	475,776	
3					19,323	0	54	434,567	
4					9,662	0	54	202,000	
Annual					67,750			1,502,062	
=====									
Project Total:									4,662,780
=====									

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)
SAN GORGONIO PASS ----- (Riverside)									
19. ENERGY DEVELOPMENT AND CONSTRUCTION CO. 745 5th Ave. Suite 405 New York, NY 10151									
A. Karen Avenue Wind Farm	Vawtpower 185-II(V)	288	200 kw @	34 mph	1	61,000	0	26	0
					2	145,000	0	26	432,000
					3	FAILED	TO	FILE	384,000
					4	FAILED	TO	FILE	102,000
					Annual	206,000			918,000
Project Total:									918,000
=====									
20. ENERGY UNLIMITED, INC. 1 Aldwyn Center Villanova, PA 19085									
A. Mountain Pass '85 Ltd.	Bonus 65/13 kw (H)	181	65 kw @	40 mph	1	20,500	0	66	1,320,000
					2	72,000	0	66	2,692,000
					3	43,000	0	66	3,284,000
					4	24,500	0	66	928,000
					Annual	160,000			8,224,000
Project Total:									8,224,000
=====									
21. O.E.S.C. P.O. Box 913 North Palm Springs, CA 92258									
A. Altech Energy Ltd., II	Enertech 44/40 (H)	141	40 kw @	30 mph	1	22,481	0	85	0
Other Participant:					2	56,100	0	85	2,105,322
Altech Energy Ltd., II					3	38,200	0	85	1,450,290
					4	15,500	0	85	747,600
					Annual	132,281			4,303,212
Project Total:									4,303,212

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine	Turbines Installed		Electricity Produced
						This Quarter (kwh)	New	Cum.	(kwh)
SAN GORGONIO PASS ----- (Riverside)									
22. RENEWABLE ENERGY VENTURES (formerly Earth Energy Systems) 250 Prairie Center Drive Eden Prairie, MN 55344									
A. REV Wind Power Partners	ESI 54-S	(H)	216	80 kw @ 40 mph	1	38,200	0	168	2,676,745
					2	81,100	0	168	5,508,000
					3	63,500	0	168	6,756,000
					4	28,300	0	168	1,871,136
					Annual	211,100			16,811,881

	Jacobs 26-17.5	(H)	49	18 kw @ 27 mph	1	9,500	0	208	1,110,455
					2	19,800	0	208	1,836,000
					3	15,600	0	208	1,905,600
					4	7,200	0	208	692,064
					Annual	52,100			5,544,119
=====									
Project Total:									22,356,000
=====									
B. Whitewater/Riverview Wind Park	Jacobs 29/20	(H)	61	20 kw @ 27 mph	1	12,700	0	218	1,368,200
					2	(Wintec new operator beginning			
					3	second quarter)			
					4				
					Annual	12,700			1,368,200

	Nordtank 65/13 k(H)		200	65 kw @ 35 mph	1	38,800	0	63	1,594,360
					2	(Wintec new operator beginning			
					3	second quarter)			
					4				
					Annual	38,800			1,594,360
=====									
Project Total:									2,962,560
=====									

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model -----	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)
SAN GORGONIO PASS									
(Riverside)									
23. SAN GORGONIO FARMS									
21515 Hawthorne Blvd.									
Suite 1059									
Torrance, CA 90503									
A. San Gorgonio Farms Wind Park									
Bonus 100 kw	(H)	127	100 kw @	28 mph	1	62,400	55	55	2,873,160
					2	146,520	0	55	6,697,485
					3	141,160	0	55	5,945,015
					4	49,920	0	55	2,210,240
					Annual	400,000			17,725,900

Bonus 120 kw	(H)	127	120 kw @	40 mph	1	68,640	0	1	98,604
					2	161,172	0	1	112,852
					3	155,276	0	1	134,182
					4	54,912	0	1	54,008
					Annual	440,000			399,646

Bonus 65 kw	(H)	94	65 kw @	33 mph	1	43,680	0	81	2,850,243
					2	102,564	0	81	5,441,067
					3	98,812	0	81	5,246,470
					4	34,944	0	81	1,804,065
					Annual	280,000			15,341,845

Carter 25 kw	(H)	67	25 kw @	26 mph	1	12,480	0	15	129,561
					2	29,304	0	15	142,598
					3	28,232	0	15	56,458
					4	9,984	0	15	11,537
					Annual	80,000			340,154

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine (kwh)	Installed New	Cum.	Produced (kwh)
SAN GORGONIO PASS									
(Riverside)									
23. SAN GORGONIO FARMS (Con't.)									
A. San Gorgonio Farms Wind Park, Con't.	Micon 65 kw	(H)	94	65 kw @ 33 mph	1	43,680	0	50	1,848,627
					2	102,564	0	50	3,032,062
					3	98,812	0	50	2,780,530
					4	34,944	0	50	1,082,926
					Annual	280,000			8,744,145
Project Total:									42,551,690
24. SANDBERG WIND CORPORATION									
31324 Via Colinas									
Suite 114									
Westlake Village, CA 91362									
A. Ventus Wind Park (SWC I)	Vawtpower	(V)	258	150 kw @ 32 mph	1	0	0	14	0
					2	0	0	14	3,000
					3	0	0	14	0
					4	FAILED	TO	FILE	5,184,000 *
					Annual	0			5,187,000
Project Total:									5,187,000
B. Ventus Wind Park (SWC II)	Storm Master	(H)	113	45 kw @ 33 mph	1	24,637	0	9	62,666
					2	24,637	0	9	162,581
					3	24,637	0	9	199,538
					4	FAILED	TO	FILE	- *
					Annual	73,911			424,785
Project Total:									424,785

* Output for this failed to file project is included only under the first listed turbine model of the first listed project

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)
SAN GORGONIO PASS									
(Riverside)									
24. SANDBERG WIND CORPORATION (Con't.)									
C. Whitewater Wind Park (SWC III), Con't.	Maetecnic	(H)	269	150 kw @ 28 mph	1	0	0	6	32,426
					2	0	0	6	73,766
					3	0	0	6	125,760
					4	FAILED	TO	FILE	- *
					Annual	0			231,952
Micon	(H)	293	108 kw @ 45 mph	1	55,950	0	132	2,844,000	
				2	0	0	132	8,154,000	
				3	0	0	132	10,638,000	
				4	FAILED	TO	FILE	- *	
				Annual	55,950			21,636,000	
Nordtank	(H)	201	65 kw @ 44 mph	1	0	0	4	80,704	
				2	0	0	4	105,561	
				3	0	0	4	102,089	
				4	FAILED	TO	FILE	- *	
				Annual	0			288,354	
Riisager	(H)	190	90 kw @ 27 mph	1	0	0	13	0	
				2	0	0	13	0	
				3	0	0	13	0	
				4	FAILED	TO	FILE	- *	
				Annual	0			0	

* Output for this failed to file project is included only under the first listed turbine model of the first listed project

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
SAN GORGONIO PASS									
(Riverside)									
24. SANDBERG WIND CORPORATION (Con't.)									
C. Whitewater Wind Park (SWC III), Con't.	Windmatic 15S	(H)	189	65 kw @ 32 mph	1	35,587	0	63	753,671
					2	35,587	0	63	1,967,588
					3	35,587	0	63	3,650,918
					4	FAILED	TO	FILE	- *
					Annual	106,761			6,372,177
	Windmatic 17S	(H)	227	95 kw @ 34 mph	1	62,500	0	15	0
					2	62,500	0	15	217,242
					3	62,500	0	15	796,302
					4	FAILED	TO	FILE	- *
					Annual	187,500			1,013,544
	Windtech	(H)	197	80 kw @ 35 mph	1	43,800	0	91	567,551
					2	43,800	0	91	444,951
					3	43,800	0	91	688,160
					4	FAILED	TO	FILE	- *
					Annual	131,400			1,700,662
Project Total:									39,263,262
25. SEAWEST ENERGY GROUP									
1455 Frazee Road, Suite 300									
San Diego, CA 92108									
A. Altech III/Difwind Partners	Micon 100/US	(H)	283	108 kw @ 30 mph	1	53,500	0	364	17,878,996
					2	160,200	0	364	30,142,038
					3	108,900	0	364	20,045,625
					4	41,400	0	364	6,298,127
					Annual	364,000			74,364,786

* Output for this failed to file project is included only under the first listed turbine model of the first listed project

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
SAN GORGONIO PASS									
(Riverside)									
25. SEAWEST ENERGY GROUP (Con't.)									
A. Altech III/Difwind Partners, Con't.	Micon 110/US	(H)	283	108 kw @	30 mph	1	0	20	834,770
						2	0	20	1,519,960
						3	0	20	1,308,090
						4	0	20	630,760
						Annual			4,293,580
	Micon 60	(H)	201	60 kw @	30 mph	1	0	92	1,950,234
						2	0	92	4,104,002
						3	0	92	3,378,285
						4	0	92	903,313
						Annual			10,335,834
Project Total:									88,994,200
B. Difwind Partners	Micon 110	(H)	300	108 kw @	30 mph	1	0	73	3,000,000
						2	0	73	4,770,000
						3	0	73	4,860,000
						4	0	73	1,848,000
						Annual			14,478,000
Project Total:									14,478,000
C. Phoenix Energy Associates/ Other Participant: Phoenix Energy, Ltd.	Enertech 44/40	(H)	141	40 kw @	30 mph	1	0	90	0
						2	0	90	2,989,631
						3	0	90	1,560,251
						4	0	90	804,000
						Annual			5,353,882

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Turbines Cum.	Electricity Produced (kwh)
SAN GORGONIO PASS									
(Riverside)									
25. SEAWEST ENERGY GROUP (Con't.)									
C. Phoenix Energy Associates/ Difwind Partners, Con't.	Micon 110/US	(H)	300	110 kw @	33 mph	1	0	16	884,190
						2	0	16	1,405,600
						3	0	16	1,219,110
						4	0	16	537,380
						Annual			340,000
									4,046,280
	Micon 60/13	(H)	200	60 kw @	33 mph	1	0	130	4,257,810
						2	0	130	6,735,969
						3	0	130	5,122,639
						4	0	130	2,018,620
						Annual			224,000
									18,135,038
	Project Total:								27,535,200
=====									
26. SOUTHERN CALIFORNIA SUNBELT									
701 S. Parker St., Suite 7300									
Orange, CA 92668									
A. Palm Springs Wind Park	Starwind	(H)	0	125 kw @	0 mph	1	0	0	0
						2	0	4	49,980
						3	0	4	8,830
						4	0	5	10,350
						Annual			0
									69,160
	Wenco	(H)	0	200 kw @	0 mph	1	0	0	0
						2	0	14	0
						3	0	14	1,351
						4	0	14	11,575
						Annual			0
									12,926

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model -----	Rotor Axis	Rotor Size (M2)	Size (kW)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine (kwh)	Installed New	Installed Cum.	Produced (kwh)
SAN GORGONIO PASS ----- (Riverside)									
26. SOUTHERN CALIFORNIA SUNBELT (Con't.)									
A. Palm Springs Wind Park, Con't.	Windmatic 15S	(H)	189	65 kW @ 32 mph	1	23,191	0	64	1,568,798
					2	47,898	0	64	3,741,680
					3	39,217	0	64	2,723,370
					4	17,016	0	64	839,488
					Annual	127,322			8,873,336
=====									Project Total:
=====									8,955,422
=====									
27. TRIAD AMERICAN ENERGY 11791 Fitch Irvine, CA 92714									
A. Triad IV - VII	ESI 80	(H)	476	250 kW @ 40 mph	1	0	0	36	1,482,417
					2	FAILED	TO	FILE	5,790,000 *
					3	0	0	36	1,566,635
					4	0	0	36	229,136
					Annual	0			9,068,188

	Vanguard 20/95	(H)	226	95 kW @ 40 mph	1	0	0	60	635,582
					2	FAILED	TO	FILE	- *
					3	0	0	60	4,091,364
					4	0	0	60	1,078,864
					Annual	0			5,805,810
=====									Project Total:
=====									14,873,998
=====									

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine (kwh)	Installed New	Cum.	Produced (kwh)
SAN GORGONIO PASS									
(Riverside)									
28. WESTERN WINDFARMS									
2352 Research Drive									
Livermore, CA 94550									
A. Dillon Devers	Micon 108	(H)	293	108 kw @ 33 mph	1	47,940	0	4	198,023
					2	124,080	0	4	308,743
					3	64,860	0	4	242,256
					4	45,120	0	4	83,541
					Annual	282,000			832,563
	Micon 65	(H)	200	65 kw @ 30 mph	1	30,600	0	15	562,990
					2	82,800	0	15	840,602
					3	39,600	0	15	656,708
					4	27,000	0	15	266,589
					Annual	180,000			2,326,889
	Wincon	(H)	293	108 kw @ 33 mph	1	47,940	0	102	3,685,918
					2	124,080	0	102	5,066,890
					3	64,860	0	102	5,604,543
					4	45,120	0	102	2,541,958
					Annual	282,000			16,899,309
Project Total:									20,058,761

29. WINDUSTRIES
P.O. Box 913
North Palm Spring, CA 92258

A. Windustries I	Enertech 44/40	(H)	141	40 kw @ 30 mph	1	23,500	0	96	457,766
					2	58,700	0	96	2,831,000
					3	45,500	0	96	2,224,500
					4	20,300	0	96	1,140,000
					Annual	148,000			6,653,266

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
SAN GORGONIO PASS									
(Riverside)									
29. WINDUSTRIES (Con't.)									
A. Windustries I, Con't.	Enertech 44/60	(H)	141	60 kw @ 35 mph	1	28,900	0	48	382,234
					2	78,800	0	48	2,305,000
					3	58,400	0	48	525,600
					4	24,600	0	48	0
					Annual	190,700			3,212,834
Project Total:									9,866,100
30. WINTEC, LTD.									
1299 Ocean Ave., Suite 902									
Santa Monica, CA 90401									
A. Wintec Cahuilla Windpark	Nordtank 60/13	(H)	201	60 kw @ 34 mph	1	0	0	0	0
					2	0	0	0	0
					3	0	0	0	0
					4	14,732	48	48	28,443
					Annual	14,732			28,443
Project Total:									28,443
B. Wintec I Annex	Micon 108	(H)	293	108 kw @ 33 mph	1	50,893	0	7	350,273
					2	112,031	0	7	408,664
					3	91,002	0	7	394,654
					4	7,450	0	7	159,518
					Annual	261,376			1,313,109

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine (kwh)	Installed New	Cum.	Produced (kwh)
SAN GORGONIO PASS									
(Riverside)									
30. WINTEC, LTD. (Con't.)									
B. Wintec I Annex, Con't.	Micon 60/13	(H)	200	65 kw @ 33 mph	1	38,170	0	31	1,094,798
					2	84,023	0	31	1,644,723
					3	68,252	0	31	1,405,020
					4	19,555	0	31	550,375
					Annual	210,000			4,694,916
=====									Project Total:
=====									6,008,025

C. Wintec I Windpark	Carter 25 kw	(H)	75	25 kw @ 26 mph	1	32,332	0	175	1,310,332
					2	17,267	0	180	1,117,777
					3	24,789	0	185	648,849
					4	5,612	0	185	188,940
					Annual	80,000			3,265,898
-----									Micon 65/13 kw
		(H)	200	65 kw @ 33 mph	1	45,326	0	23	948,023
					2	84,871	0	23	1,453,268
					3	65,071	0	23	1,099,551
					4	14,732	0	23	429,060
					Annual	210,000			3,929,902
=====									Project Total:
=====									7,195,800

D. Wintec II Whitewater Windpark (formerly part of Earth Energy Systems)	Jacobs 20	(H)	50	20 kw @ 27 mph	1	(operated by Earth Energy Systems)			
					2	16,166	0	41	507,490
					3	12,394	0	41	280,775
					4	2,806	0	41	114,910
					Annual	31,366			903,175

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity	
						Quarterly Production Per Turbine This Quarter (kwh)	Installed	Cum.	Produced (kwh)	
SAN GORGONIO PASS ----- (Riverside)										
30. WINTEC, LTD. (Con't.)										
D. Wintec II Whitewater Windpark, Con't.	Nordtank 60	(H)	201	65 kw @ 34 mph	1	(operated by Earth Energy Systems)				
					2	84,871	0	63	3,808,910	
					3	65,071	0	63	2,878,775	
					4	14,732	0	63	971,911	
					-----	-----	-----	-----	-----	
					Annual	164,674			7,659,596	
=====									8,562,771	
Project Total:									8,562,771	
=====										
E. Wintec III Riverview Windpark (formerly part of Earth Energy Systems)	Jacobs 20	(H)	50	20 kw @ 27 mph	1	(operated by Earth Energy Systems)				
					2	16,166	0	177	1,917,600	
					3	12,394	0	177	1,358,400	
					4	2,806	0	177	552,000	
					-----	-----	-----	-----	-----	
					Annual	31,366			3,828,000	
=====									3,828,000	
Project Total:									3,828,000	
=====										
F. Wintec Palm Windpark	Micon 60	(H)	200	60 kw @ 33 mph	1		45,326	0	30	1,200,000
					2	84,871	0	30	2,094,000	
					3	65,071	0	30	1,554,000	
					4	14,732	0	30	529,557	
					-----	-----	-----	-----	-----	
					Annual	210,000			5,377,557	
=====									5,377,557	
Project Total:									5,377,557	
=====										

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity	
						Quarterly Production Per Turbine (kwh)	Installed New	Cum.	Produced (kwh)	
SAN GORGONIO PASS ----- (Riverside)										
31. ZOND SYSTEMS 112 South Curry Tehachapi, CA 93561										
A. Painted Hills										
	Vestas 15	(H)	184	65 kw @	35 mph	1	45,487	0	61	1,622,518
						2	82,473	0	61	2,957,243
						3	51,226	0	61	2,675,750
						4	33,372	0	61	818,090
						-----	-----			-----
						Annual	212,558			8,073,601

	Vestas 17	(H)	227	100 kw @	45 mph	1	53,547	0	170	6,382,225
						2	97,084	0	170	11,380,786
						3	60,302	0	170	10,590,907
						4	39,284	0	170	3,405,599
						-----	-----			-----
						Annual	250,217			31,759,517
=====										
	Project Total:									39,833,118
=====										
	B. Zond-PanAero Windsystem Partners									
	Vestas 15	(H)	184	65 kw @	35 mph	1	24,201	0	160	4,179,380
						2	121,005	0	160	6,449,149
						3	79,225	0	160	6,136,669
						4	20,469	0	160	2,207,009
						-----	-----			-----
						Annual	244,900			18,972,207

	Vestas 15	(H)	184	65 kw @	35 mph	1	24,626	0	300	7,836,335
						2	123,130	0	300	12,092,152
						3	80,616	0	300	11,506,255
						4	20,828	0	300	4,138,141
						-----	-----			-----
						Annual	249,200			35,572,883
=====										
	Project Total:									54,545,090
=====										

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine (kwh)	Installed New	Cum.	Produced (kwh)
TEHACHAPI PASS									
(Kern)									
32. ARBUTUS									
2691 Richer Ave., #114									
Irvine, CA 92714									
A. Pajuela Peak Wind Park									
	Bonus 65	(H)	225	65 kw @ 45 mph	1	40,500	0	231	5,165,896
					2	60,750	0	231	6,540,329
					3	45,600	0	231	5,936,872
					4	55,650	0	231	4,677,907
					Annual	202,500			22,321,004
	Windane 12	(H)	144	40 kw @ 30 mph	1	24,528	0	14	24,673
					2	36,792	0	14	159,763
					3	27,594	0	14	197,018
					4	33,726	0	14	126,690
					Annual	122,640			508,144
	Windtech 75	(H)	250	75 kw @ 35 mph	1	44,700	0	88	29,431
					2	67,050	0	88	73,116
					3	50,288	0	88	130,110
					4	61,462	0	88	67,403
					Annual	223,500			300,060
Project Total:									23,129,208

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
TEHACHAPI PASS								
(Kern)								
33. CTV MARKETING								
1725 S. Douglass Road								
Suite B								
Anaheim, CA 92806								
A. Coram Energy Group								
Other Participant: Aeroman 12.5 Ser(H) 123 40 kw @ 27 mph								
Energy Conversion Technology, Inc.								
				1	0	0	27	490,352
				2	0	0	27	572,299
				3	0	0	27	480,612
				4	0	0	27	292,529
				Annual	160,000			1,835,792
Project Total:								1,835,792
B. Coram TaxVest Windfarms								
Other Participant: Aeroman 12.5 Ser(H) 123 40 kw @ 27 mph								
Energy Conversion Technology, Inc.								
				1	0	0	100	1,957,024
				2	0	0	100	2,419,822
				3	0	0	100	1,878,875
				4	0	0	100	1,188,582
				Annual	160,000			7,444,303
Project Total:								7,444,303
C. Coram TaxVest Windfarms								
Other Participant: Aeroman 12.5 Ser(H) 123 40 kw @ 27 mph								
Energy Conversion Technology, Inc.								
				1	0	0	47	707,927
				2	0	0	47	905,000
				3	0	0	47	661,575
				4	0	0	47	496,698
				Annual	160,000			2,771,200
Project Total:								2,771,200

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)
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TEHACHAPI PASS

(Kern)

33. CTV MARKETING (Con't.)

Other Participant: Energy Conversion Technology, Inc.	D. Coram TaxVest Windfarms	Aeroman 12.5 ser(H)	123	40 kw @ 27 mph	1	0	0	109	1,376,562
					2	0	0	109	1,980,000
					3	0	0	109	1,558,551
					4	0	0	109	1,096,527
					Annual	160,000			6,011,640
Project Total:									6,011,640

34. CANNON FINANCIAL GROUP

6920 Miramar Rd., Suite 304
San Diego, CA 92121

A. Cameron Ridge Windpark	Bouma 200	(H)	314	135 kw @ 40 mph	1	0	0	35	1,485,097
					2	0	0	35	1,266,178
					3	0	0	35	429,372
					4	0	0	36	990
					Annual	450,000			3,181,637
Century 6000	(H)	117	75 kw @ 30 mph	1	0	0	5	0	
				2	0	0	5	0	
				3	0	0	5	0	
				4	0	0	5	0	
				Annual	220,000			0	
Century 9000	(H)	117	100 kw @ 37 mph	1	0	0	44	122,609	
				2	0	0	44	234,160	
				3	0	0	44	111,308	
				4	0	0	45	344,865	
				Annual	266,000			812,942	

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
34. CANNON FINANCIAL GROUP (Con't.)									
A. Cameron Ridge Windpark, Con't.	Nordtank 150	(H)	330	150 kw @ 42 mph	1	0	0	102	6,215,252
					2	0	0	102	6,155,160
					3	0	0	102	3,611,786
					4	0	0	102	771,829
					Annual	520,000			16,754,027
	Nordtank 65/136	(H)	201	65 kw @ 35 mph	1	0	0	50	2,070,011
					2	0	0	50	2,932,278
					3	0	0	50	2,371,302
					4	0	0	50	1,643,256
					Annual	190,000			9,016,847
	Nordtank 90/16.6	(H)	216	75 kw @ 42 mph	1	0	0	340	11,815,031
					2	0	0	340	11,946,198
					3	0	0	340	7,696,231
					4	0	0	340	5,375,059
					Annual	276,000			36,832,519
	Project Total:								66,597,972
35. DOLLAR ENERGY SYSTEMS CORP.									
1835 Technology Drive									
Troy, MI 48083									
A. The Mariah Wind Park	Storm Master 12-	(H)	79	40 kw @ 35 mph	1	10,000	0	17	81,297
					2	25,000	0	17	76,500
					3	27,000	0	17	64,352
					4	18,000	0	17	23,601
					Annual	80,000			245,750

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
35. DOLLAR ENERGY SYSTEMS CORP. (Con't.)									
A. The Mariah Wind Park, Con't.									
	Storm Master 12-(H)	79	60 kw @ 45 mph		1	10,000	0	59	310,303
					2	25,000	0	59	366,900
					3	27,000	0	59	245,248
					4	18,000	0	59	120,199
					Annual	80,000			1,042,650
Project Total:									1,288,400
36. ENERGY UNLIMITED, INC.									
1 Aldwyn Center									
Villanova, PA 19085									
A. Windy Flats '82 and Mountain Flats '83									
	Carter 25kw	(H)	75	25 kw @ 25 mph	1	27,744	0	25	235,083
					2	23,320	0	25	195,830
					3	12,464	0	25	178,628
					4	16,472	0	25	130,101
					Annual	80,000			739,642
Project Total:									739,642
37. FLOWIND CORPORATION									
1183 Quarry Lane									
Pleasanton, CA 94566									
A. FloWind Cameron Ridge									
	Flowind 17	(V)	260	142 kw @ 44 mph	1	59,841	0	161	7,087,242
					2	90,175	0	161	10,190,706
					3	46,249	0	161	7,168,504
					4	55,297	0	161	6,925,581
					Annual	251,562			31,372,033

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
37. FLOWIND CORPORATION (Con't.)									
A. FloWind Cameron Ridge, Con't.									
Flowind 19	(V)	340	250 kw @ 38 mph	1	115,641	0	122	5,957,424	
				2	182,951	0	122	9,076,152	
				3	90,982	0	122	6,418,037	
				4	103,621	0	122	3,284,504	
				Annual	493,195			24,736,117	
Flowind 25	(V)	515	381 kw @ 44 mph	1	0	0	2	9,534	
				2	0	0	2	210,910	
				3	0	0	2	179,379	
				4	0	0	2	121,915	
				Annual	0			521,738	
Sumitomo H22	(H)	363	200 kw @ 30 mph	1	0	0	1	0	
				2	0	0	1	0	
				3	0	0	1	0	
				4	0	0	1	0	
				Annual	0			0	
Project Total:								56,629,888	
B. FloWind IV									
Flowind 19	(V)	340	250 kw @ 38 mph	1	94,005	0	58	3,072,000	
				2	165,917	0	58	5,679,360	
				3	84,944	0	58	3,744,000	
				4	84,562	0	58	2,520,000	
				Annual	429,428			15,015,360	
Project Total:								15,015,360	

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Axis	Rotor (M2)	Size (kw)	Quarter; This Quarter Annual	Projected Quarterly Production Per Turbine (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
38. LIBERTY WINDFARMS									
3501 Bernard #11C									
Bakersfield, CA 93306									
A. Liberty Wind Park	Blue Max 50	(H)	97	40 kw @ 34 mph	1	21,124	0	80	336,640
					2	11,300	0	80	114,434
					3	32,800	0	80	333,568
					4	9,276	0	80	166,320
					Annual	74,500			950,962
Project Total:									950,962
39. NATURAL RESOURCE VENTURES									
(formerly CalWind Resource)									
23241 Ventura Blvd.									
Suite 216									
Woodland Hills, CA 91364									
A. Wind Resource I	Nordtank 65/13	(H)	201	65 kw @ 35 mph	1	33,215	0	134	3,492,000
					2	65,942	0	134	3,928,000
					3	49,735	0	134	2,968,000
					4	27,108	0	134	2,228,000
					Annual	176,000			12,616,000
Project Total:									12,616,000

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine (kwh)	Installed	Produced (kwh)	
						This Quarter	New	Cum.	
TEHACHAPI PASS									
(Kerp)									
40. OAK CREEK ENERGY SYSTEMS									
450 North Green									
Tehachapi, CA 93561									
A. Oak Creek Energy Systems	Blue Max	(H)	108	50 kw @ 0 mph	1	0	0	27	0
					2	0	0	27	0
					3	0	0	27	0
					4	0	0	27	0
					Annual	0			0
	Blue Max	(H)	108	50 kw @ 0 mph	1	21,450	0	50	0
					2	32,890	0	50	0
					3	60,060	0	50	0
					4	28,600	0	50	0
					Annual	143,000			0
	Bonus	(H)	200	65 kw @ 0 mph	1	27,000	0	51	896,593
					2	41,400	0	51	1,136,345
					3	75,600	0	51	1,205,456
					4	36,000	0	51	315,346
					Annual	180,000			3,553,740
	Carter	(H)	75	25 kw @ 0 mph	1	11,400	0	70	135,619
					2	17,480	0	70	75,690
					3	31,920	0	70	34,590
					4	15,200	0	70	18,842
					Annual	76,000			264,741

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
40. OAK CREEK ENERGY SYSTEMS (Con't.)									
A. Oak Creek Energy Systems, Con't.	Flowind	(V)	0	120 kw @ 0 mph	1	0	0	1	11,301
					2	0	0	1	1,209
					3	0	0	1	0
					4	0	0	1	0
					Annual	0			12,510
	Lolland	(H)	184	75 kw @ 0 mph	1	31,050	0	21	150,688
					2	47,610	0	21	154,880
					3	44,950	0	21	106,307
					4	41,400	0	21	72,170
					Annual	165,010			484,045
	Lolland	(H)	288	110 kw @ 0 mph	1	45,000	0	50	1,695,240
					2	69,000	0	50	1,955,474
					3	126,000	0	50	1,331,950
					4	60,000	0	50	773,967
					Annual	300,000			5,756,631
	Micon	(H)	293	110 kw @ 0 mph	1	45,000	0	50	1,612,361
					2	69,000	0	50	1,586,099
					3	126,000	0	50	1,045,030
					4	60,000	0	50	647,046
					Annual	300,000			4,890,536
	Micon	(H)	200	65 kw @ 0 mph	1	27,000	0	66	1,167,832
					2	41,400	0	66	1,144,627
					3	75,600	0	66	743,907
					4	36,000	0	66	612,205
					Annual	180,000			3,668,571

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
40. OAK CREEK ENERGY SYSTEMS (Con't.)									
A. Oak Creek Energy Systems, Con't.	Nordtank	(H)	200	65 kw @ 0 mph	1	27,000	0	66	1,687,705
					2	41,400	0	66	2,028,359
					3	75,600	0	66	1,554,226
					4	36,000	0	66	1,024,608
					Annual	180,000			6,294,898
	Vestas	(H)	200	65 kw @ 0 mph	1	27,000	0	7	161,236
					2	41,400	0	7	202,903
					3	75,600	0	7	142,252
					4	36,000	0	7	92,079
					Annual	180,000			598,470
	Weccs-Tec	(H)	0	100 kw @ 0 mph	1	0	0	1	0
					2	0	0	1	0
					3	0	0	1	0
					4	0	0	1	0
					Annual	0			0
	Weccs-Tec	(H)	0	65 kw @ 0 mph	1	0	0	29	0
					2	0	0	29	0
					3	0	0	29	0
					4	0	0	29	0
					Annual	0			0
Project Total:									25,524,142

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)
TEHACHAPI PASS								
(Kern)								
41. SEAWEST INDUSTRIES, INC.								
1455 Frazee Road								
Suite 300								
San Diego, CA 92108								
A. Difwind VI/Viking I								
Danwin 23/160	(H)	423	160 kw @ 34 mph	1	0	0	0	0
				2	0	0	0	0
				3	0	0	0	0
				4	114,000	91	91	21,761
				Annual	114,000			21,761
MWT 250S	(H)	491	250 kw @ 31 mph	1	0	0	0	0
				2	0	0	0	0
				3	149,500	20	20	438,947
				4	130,000	0	20	970,947
				Annual	279,500			1,409,894
Micon 110	(H)	300	108 kw @ 30 mph	1	70,700	0	251	12,276,454
				2	137,800	0	251	18,118,730
				3	85,700	0	251	17,616,481
				4	78,200	0	251	8,092,732
				Annual	372,400			56,104,397
Nordtank 150S	(H)	330	150 kw @ 35 mph	1	77,300	0	62	3,707,546
				2	150,400	0	62	4,747,330
				3	93,500	0	62	4,690,275
				4	85,400	0	62	2,110,560
				Annual	406,600			15,255,711
Project Total:								72,791,763

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity	
						Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)	
TEHACHAPI PASS ----- (Kern)										
42. SOUTHERN CALIFORNIA SUNBELT 701 S. Parker Street Suite 7300 Orange, CA 92668										
A. Mojave Wind Park	Airmaster	(H)	16	100 kw @ 40 mph	1	0	0	10	0	
					2	0	0	10	0	
					3	0	0	10	0	
					4	0	0	10	0	
					Annual	0			0	
	Windmatic 17S	(H)	227	95 kw @ 34 mph	1	23,191	0	95	1,252,554	
					2	47,898	0	95	2,114,810	
					3	39,217	0	95	1,226,645	
					4	17,016	0	95	1,252,554	
					Annual	127,322			5,846,563	
Project Total:									5,846,563	
=====										
43. TRIAD AMERICAN ENERGY 11791 Fitch Irvine, CA 92714										
Other Operator: Windland, Inc.	A. Triad III	ESI 54-S	(H)	213	80 kw @ 40 mph	1	0	0	38	67,445
					2	FAILED	TO	FILE	- *	
					3	0	0	38	146,240	
					4	0	0	38	82,021	
					Annual	210,000			295,706	

* Output for this failed to file project is included only under the first listed turbine model of the first listed project

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
43. TRIAD AMERICAN ENERGY (Con't.)									
A. Triad III, Con't.									
	ESI 80-200S	(H)	476	250 kw @ 40 mph	1	0	0	6	35,697
					2	FAILED	TO	FILE	- *
					3	0	0	6	137,545
					4	0	0	6	86,391
					Annual	532,000			259,633
Project Total:									555,339
44. UNIVERSAL PROPERTIES									
9460 Wilshire Blvd., Suite 617									
Beverly Hills, CA 90212									
A. Ridgeline Windfarm									
Other Operator:	ESI 54	(H)	213	50 kw @ 30 mph	1	0	0	10	190,500
Zond Systems, Inc.					2	0	0	10	0
					3	0	0	10	0
					4	0	0	10	0
					Annual	0			190,500
Project Total:									190,500
45. WIND FARMS MANAGEMENT									
(formerly Wind Source)									
2509 Thousand Oaks Blvd., Suite 197									
Thousand Oaks, CA 91362									
A. Cache Creek Wind Farm									
	Aeroman	(H)	122	40 kw @ 27 mph	1	21,000	0	40	195,853
					2	42,000	0	40	246,097
					3	FAILED	TO	FILE	180,000 *
					4	FAILED	TO	FILE	102,000 *
					Annual	63,000			723,950

* Output for this failed to file project is included only under the first listed turbine model of the first listed project

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
45. WIND FARMS MANAGEMENT (Con't.)									
A. Cache Creek Wind Farm, Con't.	Bouma	(H)	201	100 kw @ 54 mph	1	30,000	0	6	2,147
					2	60,000	0	6	0
					3	FAILED	TO	FILE	- *
					4	FAILED	TO	FILE	- *
					Annual	90,000			2,147
Project Total:									726,097

46. WINDLAND, INC.

2141 Palomar Airport Road, Suite 360
 Carlsbad, CA 92009

A. Windland Wind Park (Boxcar I)	Bonus 120/20	(H)	296	120 kw @ 40 mph	1	78,500	0	11	748,703
					2	157,000	0	11	796,986
					3	78,500	0	11	670,202
					4	78,500	0	11	468,015
					Annual	392,500			2,683,906
	Carter Model 25	(H)	77	25 kw @ 30 mph	1	15,300	0	39	377,925
					2	30,700	0	39	396,896
					3	15,300	0	39	310,851
					4	15,300	0	39	186,989
					Annual	76,600			1,272,661
	Carter Model 250	(H)	332	250 kw @ 38 mph	1	120,000	0	13	913,849
					2	240,000	0	13	950,480
					3	120,000	0	13	595,307
					4	120,000	0	13	438,749
					Annual	600,000			2,898,385

* Output for this failed to file project is included only under the first listed turbine model of the first listed project

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
					Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)
TEHACHAPI PASS								
(Kern)								
46. WINDLAND, INC. (Con't.)								
A. Windland Wind Park (Boxcar I), Con't.	Storm Master 12 (H)	113	40 kw @ 42 mph	1	18,000	0	10	72,381
				2	36,000	0	10	95,600
				3	18,000	0	10	105,901
				4	18,000	0	10	65,488
				Annual	90,000			339,370
Vestas V25-200 (H)	490	200 kw @ 30 mph	1	0	0	0	0	
			2	125,000	2	2	20,292	
			3	125,000	0	2	171,362	
			4	125,000	0	2	206,985	
			Annual	375,000			398,639	
Project Total:								7,592,961
B. Windland Wind Park (Boxcar II)	Bonus 65/13 (H)	181	65 kw @ 40 mph	1	37,200	0	4	44,000
				2	74,400	0	4	51,000
				3	37,200	0	4	28,000
				4	37,200	0	4	36,000
				Annual	186,000			159,000
Enertech 44/60 (H)	180	60 kw @ 35 mph	1	0	0	12	0	
			2	0	0	12	0	
			3	0	0	12	0	
			4	0	0	12	0	
			Annual	0			0	
Project Total:								159,000

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)
TEHACHAPI PASS								
(Kern)								
47. WINDRIDGE								
406 E. Tehachapi Blvd.								
Tehachapi, CA 93561								
A. Willowind	Windmatic 15S	(H) 189	65 kw @ 34 mph	1	47,447	16	42	594,000
				2	38,974	0	42	888,000
				3	FAILED	TO	FILE	794,000
				4	FAILED	TO	FILE	540,000
				Annual	86,421			2,816,000
Project Total:								2,816,000
48. ZOND SYSTEMS, CORP.								
112 South Curry Street								
Tehachapi, CA 93561								
A. Feeder 0	Storm Master 12	(H) 113	40 kw @ 40 mph	1	47,600	0	47	317,549
				2	40,600	0	47	285,486
				3	22,400	0	47	212,746
				4	29,400	0	47	131,460
				Annual	140,000			947,241
Project Total:								947,241
B. Feeder 1	Polenko 18	(H) 254	100 kw @ 35 mph	1	108,129	0	15	621,490
				2	92,228	0	15	674,515
				3	50,884	0	15	631,828
				4	66,785	0	15	396,194
				Annual	318,026			2,324,027

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines Installed	Electricity Produced (kwh)
						Quarterly Production Per Turbine This Quarter (kwh)		
TEHACHAPI PASS								
(Kern)								
48. ZOND SYSTEMS, CORP. (Con't.)								
B. Feeder 1, Con't.								
	Vestas 15	(H)	184	65 kw @ 35 mph	1	81,953	0 58	1,253,585
					2	69,901	0 58	1,190,069
					3	38,566	0 58	856,004
					4	50,618	0 58	693,487
					Annual	241,038		3,993,145
	Windmatic 14S	(H)	165	65 kw @ 35 mph	1	72,541	0 30	605,994
					2	61,873	0 30	536,484
					3	34,137	0 30	422,056
					4	44,805	0 30	361,323
					Annual	213,356		1,925,857
Project Total:								8,243,029
C. Feeder 2								
	Vestas 15	(H)	184	65 kw @ 35 mph	1	81,953	0 2	50,106
					2	69,901	0 2	69,901
					3	38,566	0 2	41,567
					4	50,618	0 2	29,793
					Annual	241,038		191,367
	Vestas 15	(H)	184	65 kw @ 35 mph	1	72,171	0 5	125,264
					2	61,558	0 5	136,491
					3	33,963	0 5	103,668
					4	44,576	0 5	74,482
					Annual	212,268		439,905

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
48. ZOND SYSTEMS, CORP. (Con't.)									
C. Feeder 2, Con't.	Vestas 15	(H)	184	65 kw @ 35 mph	1	81,953	0	13	325,686
					2	69,901	0	13	333,395
					3	38,556	0	13	269,538
					4	50,618	0	13	193,654
					Annual	241,028			1,122,273
	Vestas 15	(H)	184	65 kw @ 35 mph	1	81,953	0	75	1,878,958
					2	69,901	0	75	1,923,430
					3	38,566	0	75	1,555,026
					4	50,618	0	75	1,117,234
					Annual	241,038			6,474,648
	Project Total:								8,228,193
D. Feeder 3	Vestas 15	(H)	184	65 kw @ 35 mph	1	72,171	0	97	2,340,889
					2	61,558	0	97	2,323,216
					3	33,963	0	97	1,797,568
					4	44,576	0	97	1,130,220
					Annual	212,268			7,591,893
	Project Total:								7,591,893
E. Feeder 5	Vestas 15	(H)	184	65 kw @ 35 mph	1	64,906	0	1	23,852
					2	55,361	0	1	55,361
					3	30,544	0	1	30,544
					4	40,089	0	1	40,089
					Annual	190,900			149,846

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
48. ZOND SYSTEMS, CORP. (Con't.)									
E. Feeder 5, Con't.									
Vestas 15	(H)	184	65 kw @ 35 mph	1	72,171	0	86	2,051,263	
				2	61,558	0	86	2,032,328	
				3	33,963	0	86	1,569,616	
				4	44,576	0	86	1,150,524	
				Annual	212,268			6,803,731	

Vestas 17	(H)	227	90 kw @ 35 mph	1	82,569	0	4	171,331	
				2	70,427	0	4	172,934	
				3	38,356	0	4	151,484	
				4	50,999	0	4	115,553	
				Annual	242,351			611,302	
=====									
Project Total:								7,564,879	
=====									
F. Feeder 6									
Vestas 15	(H)	184	65 kw @ 35 mph	1	64,906	0	19	485,709	
				2	55,361	0	19	481,688	
				3	30,544	0	19	0	
				4	40,089	0	19	0	
				Annual	190,900			967,397	

Vestas 15	(H)	184	65 kw @ 35 mph	1	72,171	0	26	664,654	
				2	61,558	0	26	659,151	
				3	33,963	0	26	527,187	
				4	44,576	0	26	309,464	
				Annual	212,268			2,160,456	

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
48. ZOND SYSTEMS, CORP. (Con't.)									
F. Feeder 6, Con't.									
	Vestas 17	(H)	227	90 kw @ 35 mph	1	0	0	5	212,636
					2	0	0	6	1,825,826
					3	0	0	6	0
					4	0	0	6	0
					Annual	0			2,038,462
	Windmatic 15S	(H)	184	65 kw @ 35 mph	1	53,848	0	9	84,326
					2	45,929	0	9	45,929
					3	25,340	0	9	25,340
					4	33,259	0	9	33,259
					Annual	158,376			188,854
	Project Total:								5,355,169
G. Feeder 8									
	Storm Master	(H)	113	40 kw @ 40 mph	1	32,760	0	24	245,496
					2	54,180	0	25	203,262
					3	17,640	0	25	117,369
					4	35,420	0	25	72,240
					Annual	140,000			638,367
	Vestas 15	(H)	184	65 kw @ 35 mph	1	81,953	0	8	209,603
					2	69,901	0	8	203,676
					3	38,566	0	8	156,045
					4	50,618	0	8	118,827
					Annual	241,038			688,151
	Project Total:								1,326,518

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project -----	Turbine Model	Rotor Axis	Rotor Size (M2)	Size (kw)	Quarter; Annual	Projected	Turbines		Electricity
						Quarterly Production Per Turbine This Quarter (kwh)	Installed New	Cum.	Produced (kwh)
TEHACHAPI PASS									
(Kern)									
48. ZOND SYSTEMS, CORP. (Con't.)									
G. K Site	Vestas 15	(H)	184	65 kw @ 35 mph	1	40,716	0	41	822,061
					2	67,338	0	41	890,536
					3	21,924	0	41	650,027
					4	44,022	0	41	409,683
					Annual	174,000			2,772,307

	Vestas 17	(H)	227	90 kw @ 35 mph	1	40,716	0	37	1,438,236
					2	67,338	0	37	1,510,679
					3	21,924	0	37	1,234,718
					4	44,022	0	37	1,035,395
					Annual	174,000			5,219,028
=====									
	Project Total:								7,991,335
=====									
H. 33 - East	Vestas 17	(H)	227	90 kw @ 35 mph	1	55,809	0	68	1,980,350
					2	92,300	0	70	1,881,833
					3	30,051	0	70	1,700,491
					4	60,340	0	70	1,246,001
					Annual	238,500			6,808,675

	Vestas 17	(H)	227	90 kw @ 35 mph	1	55,809	0	98	2,826,012
					2	92,300	0	90	2,416,935
					3	30,051	0	90	2,284,289
					4	60,340	0	90	1,871,785
					Annual	238,500			9,399,021

1987 WIND PERFORMANCE REPORTING SYSTEM

Location/Operator/Project	Turbine Model	Rotor Axis	Size (M2)	Size (kw)	Quarter; Annual	Projected Quarterly Production Per Turbine This Quarter (kwh)	Turbines Installed New	Turbines Installed Cum.	Electricity Produced (kwh)
TEHACHAPI PASS									
(Kern)									
48. ZOND SYSTEMS, CORP. (Con't.)									
H. 33 - East, Con't.	Vestas 17	(H)	227	90 kw @ 35 mph	1	55,809	0	100	4,063,706
					2	92,300	0	102	3,612,715
					3	30,051	0	102	3,330,710
					4	60,340	0	102	2,755,081
					Annual	238,500			13,762,212
	Vestas 17	(H)	227	90 kw @ 35 mph	1	55,809	0	140	3,543,715
					2	92,300	0	140	3,802,831
					3	30,051	0	140	3,283,084
					4	60,340	0	140	2,171,015
					Annual	238,500			12,800,645
	Project Total:								42,770,553
I. Pool V25	Vestas 17	(H)	227	90 kw @ 35 mph	1	52,467	27	27	54,000
					2	45,425	0	27	59,000
					3	43,144	0	27	42,000
					4	76,312	0	27	30,000
					Annual	217,348			185,000
	Project Total:								185,000
J. Pool V26	Vestas 17	(H)	227	90 kw @ 35 mph	1	0	0	0	0
					2	0	0	0	0
					3	44,521	205	205	30,000
					4	42,283	0	205	35,000
					Annual	86,804			65,000
	Project Total:								65,000

**APPENDIX A
NON-OPERATING WIND PROJECTS**

The following list of wind projects are currently not being operated by any wind operator. The power purchaser reports submitted to the CEC show that no electricity was bought from any of these projects during this reporting quarter. If any party begins to operate one of these projects, and subsequently receives payments for electricity from a wind power purchaser, then they will become responsible for filing regular quarterly WPRS reports.

The name of these projects, their resource area, previous operator, current contact (if different than previous operator) and quarters they did not operate in 1987.

<u>Project Name</u>	<u>Resource Area/County</u>	<u>Previous Operator</u>	<u>Current Contact</u>	<u>Quarters Not Operating</u>
1. Aeolus Wind Farm	Boulevard Pass San Diego County	Aeolus Wind Farms 38145 Old Hwy. 80 Boulevard, CA 92005	Same	3rd; 4th
2. Airtricity Wind Park	Tehachapi Pass Kern County San Gorgonio Pass Riverside County	Airtricity 100 Commercial Way Tehachapi, CA 93561	Same	1st; 2nd; 3rd; 4th
3. Altech Energy Ltd.	San Gorgonio Pass Riverside County	O.E.S.C., Inc. P.O. Box 913 N. Palm Spring, CA 92258	Same	1st
4. Cannon 1982 Phase I Program	Tehachapi Pass Kern County	Cannon Capital Group 6920 Miramar Rd. San Diego, CA 92121	Same	1st; 2nd; 3rd; 4th
5. Cannon 1983 Phase II Program	Tehachapi Pass Kern County	Cannon Capital Group 6920 Miramar Rd. San Diego, CA 92121	Same	1st; 2nd; 3rd; 4th
6. Desert Wind Partners	San Gorgonio Pass Riverside County	Desert Wind Partners (Address Unknown)	Mindtech 24 Union Jack Suite #3 Marina del Rey CA 90292	1st; 2nd; 3rd; 4th

<u>Project Name</u>	<u>Resource Area/County</u>	<u>Previous Operator</u>	<u>Current Contact</u>	<u>Quarters Not Operating</u>
7. Howden Wind Park I	Altamont Pass Alameda County	Howden Wind Parks 3685 Mt. Diablo Blvd. Suite 251 San Rafael, CA 94901	Same	1st
8. Karen Avenue Wind Farm	San Gorgonio Pass Riverside County	Energy Dev. and Construction Company 745 Fifth Ave. Suite 405 New York NY 10151	Same	1st
9. Lopes Road Wind Park	Carquinez Strait Solano, Contra Costa County	Wind Watt, Inc. 1700 Broadway Vallejo, CA 94589	Same	1st; 2nd; 3rd; 4th
10. Pacheco Wind Park (Previously GE 3)	Pacheco Pass Merced County	Aura Energy Systems 22 Battery St., Ste. 300 San Francisco, CA 94111	West Wind Ind. P.O. Box 1705 Davis, CA 95617	1st; 2nd; 3rd; 4th
11. Ridgeline Windfarm	Tehachapi Pass Kern County	Zond Systems, Inc. 112 S. Curry Street Tehachapi, CA 93561	Universal Properties, Inc. 132 S. Rodeo Dr. Beverly Hills, CA 90212	2nd; 3rd; 4th
12. Transworld (Cabazon & Maeva)	San Gorgonio Pass Riverside County	Transworld Wind Corp. 400 S. Farrell Drive Suite B202 Palm Springs, CA 92262	Same	1st; 2nd; 3rd; 4th
13. Triad I, II	San Gorgonio Pass Riverside County	Triad American Energy 11791 Fitch Irvine, CA 92714	Same	1st; 2nd; 3rd 4th
14. Ventus Wind Park (SWC I)	San Gorgonio Pass Riverside Co.	Sandberg Wind Corp. 31324 Via Colinas, Ste 114 Westlake Village, CA 91362	Same	1st; 3rd

<u>Project Name</u>	<u>Resource Area/County</u>	<u>Previous Operator</u>	<u>Current Contact</u>	<u>Quarters Not Operating</u>
15. West Coast Wind Power	Altamont Pass Alameda County	West Coast Wind Power 601 California St., Ste 2100 San Francisco, CA 94108	Same	1st; 2nd; 3rd; 4th
16. Wind Energy Tech. Associates (WETA) I	Altamont Pass Alameda County	Fayette P.O. Box 1149 Tracy, CA 95376	Same	1st; 2nd;3rd; 4th
17. Wind Generator Parks	Carquinez Strait Solano, Contra Costa County	Wind Generator Parks 7 Wolfback Ridge Rd. Sausalito, CA 94965	Same	1st
18. Zephyr Park Ltd.	Tehachapi Pass Kern County	Zephyr Park Ltd. 18 Eastwood Court Oakland, CA 94611	Same	1st; 2nd; 3rd; 4th

**APPENDIX B
WIND TURBINE MANUFACTURES**

This Appendix contains the name, address, and phone number of all manufacturers and/or distributors of wind turbines installed in California wind projects as reported for WPRS.

<u>MANUFACTURER/DISTRIBUTOR</u>	<u>COUNTRY OF ORIGIN</u>	<u>TURBINE BRAND NAME(S)</u>	<u>PROJECT(S) WHERE TURBINE IS USED</u>
1. Airmaster c/o: Basin Petroleum Service P.O. Box 1161 Powell, WY 82435 "No Longer Active"	U.S.	Airmaster	42A, 45A
2. Airtricity 151 Kalmus Drive Costa Mesa, CA 92626 Phone: (714) 546-5217 "No Longer Active"	Denmark	Windmatic (WM)	3A, 24C, 48B, 48F
3. American M.A.N. West Coast Office 303 Hegenberger Road, Suite #402 Oakland, CA 94621 Phone: (415) 430-0754	West Germany	Aeroman	33A-D
4. Arizona Micro-Utilities 1890 E. Greenway Tempe, AZ 85282 Phone: (602) 839-7709	Switzerland	Wenco	26A
5. Bonus Wind Turbines, Inc. 444 West Ocean Blvd. Suite 1102 Long Beach, CA 90802 Phone: (213) 436-9042	Denmark	Bonus	3B, 4B, 4E, 20A, 23A, 32A, 40A, 46A-B
6. Bouma Wind Turbines P.O. Box 79483 Houston, TX 77024 Phone: (713) 222-07426	Holland	Bouma	34A, 45A

<u>MANUFACTURER/DISTRIBUTOR</u>	<u>COUNTRY OF ORIGIN</u>	<u>TURBINE BRAND NAME(S)</u>	<u>PROJECT(S) WHERE TURBINE IS USED</u>
7. Carter Wind Systems, Inc. Routel, Box 405A Burkburnett, TX 76364 Phone: (817) 569-2238	U.S.	Carter	15A, 16A, 23A, 24C, 30C, 36A, 40A, 46A
8. Century Design, Inc. 3635 Afton Road San Diego, CA 92123 Phone: (619) 292-1212 "No Longer Active"	U.S.	Century (CT)	34A
9. Danish Wind Technology Marsk Stiysvey 4 DK 8800, Viborg DENMARK	Denmark	Windane	32A
10. Danish Windpower P.O. Box 14 DK 4999, Nakskov DENMARK	Denmark	Lolland	40A
11. Danwin A/S Industrivej 12 DK-3000, Helsingor DENMARK	Denmark	Danwin (H)	5B, 41A
12. Earth Energy Systems Inc. P.O. Box 742 N. Palm Spring, CA 92258	U.S.	Jacobs	18A, 22A-B, 30D, 30E
13. Enertech Corporation P.O. Box 1085 Norwich, VT 05055 Phone: (802) 649-1145 "No Longer Active"	U.S.	Enertech	2B, 7A, 14A, 17A, 29A, 46B

<u>MANUFACTURER/DISTRIBUTOR</u>	<u>COUNTRY OF ORIGIN</u>	<u>TURBINE BRAND NAME(S)</u>	<u>PROJECT(S) WHERE TURBINE IS USED</u>
14. Energy Sciences, Inc. P.O. Box 1336 Tracy, CA 94568 Phone: (415) 833-0400 "No Longer Active"	U.S.	ESI	2A, 7B, 8A, 22A, 27A, 43A, 44A
15. Fayette Manufacturing Corp. P.O. Box 1149 Tracy, CA 95376 Phone: (415) 443-2929	U.S.	Fayette	4A-I
16. FloWind Corporation 21414 68th Avenue South Kent, WA 98032 Phone: (206) 872-8500	U.S.	FloWind (F)	5A-B, 37A-B, 40A
17. Hall Machinery 1401 Airport Drive Bakersfield, CA 93308 "No Longer Active"	U.S.	Blue Max	38A, 40A
18. HMZ Belgium N.V. Rellestraat 3 Industrie Zone 5 3800 Sint-Truiden BELGIUM	Belgium	HMZ	10A
19. Holec Power Systems, Inc. P.O. Box 2227 Livermore, CA 94550 Phone: (415) 449-9960	Denmark	Polenko (WPS)	3A, 48B
20. Int'l. Dynergy Systems 777 E. Taquitz-McCallum Suite 333 Palm Springs, CA 92262 Phone: (714) 849-5766 "No Longer Active"	U.S.	Windshark, Dynergy	24C

<u>MANUFACTURER/DISTRIBUTOR</u>	<u>COUNTRY OF ORIGIN</u>	<u>TURBINE BRAND NAME(S)</u>	<u>PROJECT(S) WHERE TURBINE IS USED</u>
21. James Howden and Company 195 Scotland Street Glasgow C5 9PJ SCOTLAND	Scotland	Howden (HWP)	2B, 6A
22. Maetecnic 1600 Orange Street Alhambra, CA 91803-1622 Phone: (818) 284-5875	U.S.	Maetecnic	24C
23. Micon Wind Turbines, Inc. 2352 Research Drive Livermore, CA 94556 Phone: (619) 297-8066	Denmark	Micon	4B, 4D, 7C-G, 13A, 23A, 24C, 25A-C, 28A, 30B-F, 40A, 41A
24. Mitsubishi c/o SeaWest Industries, Inc. 1455 Frazee Road, Ste. 300 San Diego, CA 92108 Phone: (619) 293-3340	Japan	MWT	41A
25. Nordtank, Inc. 860 Via de la Paz Suite D-3 Pacific Palisades, CA 90272 Phone: (213) 459-8543	Denmark	Nordtank (NTV)	2A-B, 3B, 22C, 30A-D, 34A, 39A, 40A, 41A
26. Riisager (Address Unknown)	West Germany	Riisager	24C
27. Starwind Maintenance 103 N. Hwy 101 Suite 2001 Encinitas, CA 92024	U.S.	Starwind	26A
28. Sumitomo Machinery Corp. 2143 E. "D" Street Ontario, CA 91764	Japan	Sumitomo	37A

<u>MANUFACTURER/DISTRIBUTOR</u>	<u>COUNTRY OF ORIGIN</u>	<u>TURBINE BRAND NAME(S)</u>	<u>PROJECT(S) WHERE TURBINE IS USED</u>
29. U.S. Windpower 500 Sansome Street Suite 600 San Francisco, CA 94111 Phone: (415) 398-3825	U.S.	U.S. Windpower (USW)	9A-E
30. Vawt Management 25E. 77th Street Suite 317 New York, NY 10021 Phone: (212) 861-3601	Denmark	Vawtpower (VP)	19A, 24A
31. Vestas North American, Ltd. P.O. Box 276 Tehachapi, CA 93561 Phone: (805) 822-6839	Denmark	Vestas	2A, 11A, 31A-B, 40A, 46A, 48B-J
32. Vanquard "No Longer Active"	U.S.	Vanquard	27A
33. Wecs-Tec "No Longer Active"	U.S.	Wecs-Tec	40A
34. Wincon Energy Systems 1660 Hotel Circle Suite 400 San Diego, CA 92108 Phone: (619) 297-8066	U.S.	Wincon	28A
35. Wind Energy Group, Ltd. 345 Ruislip Rd. Southall, Middlesex, UB1 2QX ENGLAND	England	Wind Energy Group (WEG)	9C
36. Windmatic 17900 Sky Park Circle Suite 106 Irvine, CA 92714	U.S.	Windmatic	26A, 42A

<u>MANUFACTURER/DISTRIBUTOR</u>	<u>COUNTRY OF ORIGIN</u>	<u>TURBINE BRAND NAME(S)</u>	<u>PROJECT(S) WHERE TURBINE IS USED</u>
37. Wind Power Systems 9279 Cabot Drive San Diego, CA 92126 Phone: (619) 578-0241 "No Longer Active"	U.S.	Storm Master	24B, 35A 46A, 48A, 48G
38. Wind World Strandvejon 146-148 DK 5600 Faaborg DENMARK	Denmark	Windworld	2B
39. Windtech Inc. P.O. Box 837 Glastonbury, CT 06033 Phone: (203) 659-3786	U.S.	Windtech	24C, 32A

APPENDIX C

REGULATIONS
CALIFORNIA ADMINISTRATIVE CODE
TITLE 20, CHAPTER 2, SUBCHAPTER 3, ARTICLE 4

WIND PROJECT PERFORMANCE REPORTING SYSTEM

Adopted
November 28, 1984

1381 Title and Purpose

The purpose of this article is to specify performance reporting requirements for operators of specified wind energy projects and for entities which purchase electricity from the projects and to identify requirements for the Commission to publish the information.

Authority cited: Sections 25213 and 25218 (e), Public Resources Code Reference: Sections 25216.5 (d), 25601 (c), and 25605, Public Resources Code.

1382 Definitions

For the purposes of this article, the following definitions shall apply unless the Commission has clearly indicated otherwise in these regulations:

- (a) "Contingency Costs": the costs which may be paid by investors after the initial investment, but which are not paid out of project revenues. Contingency costs may include such costs as turbine repairs or annual insurance fees paid during the reporting year.
- (b) "Cumulative Number of Turbines Installed": the cumulative total number of turbines of a given model installed by the end of the reporting period.

- (c) "Electricity Produced (kWh)": the total kilowatt hours actually produced by all of the turbines of a particular turbine model contained within the wind project where the electricity is delivered to a wind power purchaser for sale during the reporting period.
- (d) "Name of Wind Project": the name used for the project in any prospectus, offering memorandum, or sales literature.
- (e) "Number of Turbines Installed During Reporting Period": the number of additional turbines installed during the calendar quarter of the reporting period.
- (f) "Project Cost": the total cost of the turbines installed during the reporting period. Project cost includes all debt and equity investment in the project (including nonrecourse notes) and should be comparable to the project cost shown in the offering memorandum, prospectus or sales literature published by the developer.
- (g) "Projected Annual Production Per Turbine (kWh)": the annual average kWh production, by model, predicted by the developer in its prospectus, offering memorandum, or sales literature. This figure may be revised annually prior to the

first reporting quarter of each year and shall be based upon average site specific wind distributions and the wind turbine power curves.

- (h) "Projected Quarterly Production Per Turbines (kWh)": the quarterly breakdown of the Projected Annual Production Per Turbine.
- (i) "Rotor (M²)": The rotor swept area in square meters for each turbine model.
- (j) "Size (kW)": the turbine manufacturer's published kW rating at a specific miles per hour (mph) with wind speed shown in parentheses.
- (k) "Turbine Model": the common or manufacturer's name for the turbine if that is a commonly used term for the model of a specific rotor (M²) and size (kW).
- (l) "Wind Power Purchaser": any electricity utility or other entity which purchases electricity from a wind project, as defined in this section.
- (m) "Wind Project": one or more wind turbine generators installed in California with a combined rated capacity of 100 kW

or more, the electricity from which is sold to another party.

- (n) "Wind Project Operator": any developer or operator who directly receives payments for electricity from the wind power purchaser.

Authority cited: Sections 25213 and 25218 (e), Public Resources Code Reference: Sections 25216.5 (d), 25601 (c), and 25605, Public Resources Code.

1383 Reporting Period

For the purpose of this article, and unless otherwise indicated, the reporting period shall be each calendar quarter, beginning with the first quarter following the effective date of this article. Quarterly reports filed pursuant to this article shall be submitted not later than the forty-fifth day following the close of each reporting period. Reports shall be deemed submitted as of the date of postmark, provided that the report is properly and legibly completed.

Authority cited: Sections 25213 and 25218 (e), Public Resources Code Reference: Sections 25216.5 (d), 25601 (c), and 25605, Public Resources Code.

1384 Requirements to File

The information required by this article shall be submitted to the Commission by wind project operators and wind power purchasers. Reports shall be made on forms prescribed by order of the Commission and according to instructions accompanying the forms. A copy of the wind project prospectus, offering memorandum, and other sales literature shall accompany the initial report. All reports must be verified by a responsible official of the firm filing the report. Requests for confidentiality may be filed pursuant to 20 Cal. Admin. Code section 2501 et. seq.

Authority cited: Sections 25213 and 25218 (e), Public Resources Code Reference: Sections 25216.5 (d), 25601 (c), and 25605, Public Resources Code.

1385 Information Requirements: Wind Project Operators

Each operator firm submitting information pursuant to the provisions of the article shall include the following:

- (1) Name of wind project
- (2) Name and address of operator
- (3) Name and phone number of contact person at operator's firm

- (4) Operator's name as shown on power purchase contract (if different than 2 above)
- (5) Name of wind power purchaser
- (6) Purchase contract number
- (7) Resource area and county
- (8) Dates of reporting period
- (9) Turbine model
- (10) Cumulative number of turbines installed
- (11) Number of turbines installed during reporting period
- (12) Rotor (M^2)
- (13) Size (kW) at stated wind speed
- (14) Project cost
- (15) Additional project contingency costs for which investors may be responsible
- (16) Projected quarterly production per turbine (kWh)
- (17) Projected annual production per turbine (kWh)
- (18) Electricity produced (kWh)
- (19) Turbine manufacturer's name and address
- (20) Operator comments, if any

Authority cited: Sections 25213 and 25218 (e), Public Resources Code Reference: Sections 25216.5 (d), 25601 (c), and 25605, Public Resources Code.

1386 Information Requirement: Wind Power Purchase

Each wind power purchaser submitting information pursuant to the provisions of this article shall include the following:

- (1) Name of purchaser's firm
- (2) Name and phone number of contact person at purchasers firm
- (3) Date of report
- (4) Name of wind project operator
- (5) Number of contract with wind project operator
- (6) kWh's produced during reporting period
- (7) Dates of reporting period
- (8) The maximum MW's which the operator can deliver to the purchaser as specified in the power sales agreement
- (9) Purchaser comments, if any

Authority cited: Sections 25213 and 25218 (e), Public Resources Code Reference: Sections 25216.5 (d), 25601 (c), and 25605, Public Resources Code.

1387 Publication of Data

The Commission staff shall compile and distribute, on a quarterly basis, the information reported by wind project operators and purchasers. Cost data will be published by the Commission in a aggregated form to the extent

necessary to assure confidentiality. The final publication of each year shall combine the performance data for that year. The publication shall designate the name of any wind project operator from whom performance data is not received.

Authority cited: Sections 25213 and 25218 (e), Public Resources Code Reference: Sections 25216.5 (d), 25601 (c), and 25605, Public Resources Code.

1388 Failure to Provide Information

The Commission may, after notifying any person of the failure to provide information pursuant to this article, take such action to secure the information as is authorized by any provision of law, including, but not limited to, Public Resources Code section 25900.

Authority cited: Sections 25213 and 25218 (e), Public Resources Code Reference: Sections 25216.5 (d), 25601 (c), and 25605 (e), and 25900, Public Resources Code.

1389 Exemptions

Operators of wind projects of less than 100 kW rated capacity or operators who do not offer electricity for sale are exempt from this article.

Authority cited: Sections 25213 and 25218 (e),
Public Resources Code Reference: Sections
25216.5 (d), 25601 (c), and 25605, Public Resources
Code.