TO: All the folks on the Marin County Planning Commission as well as the Marin County Board of Supervisors,

I would like to provide a source of information concerning WECS and the wasteful assault by the Wind industry on Marin County and the rest of the state of California in general. I am including links to the latest data, which was only released just last month by the EIA, U.S. Energy Information Administration.

The information I will be commenting on as well as additional information can be found here at... http://eia.gov/cneaf/electricity/page/glossary.html and/or at ...http://www.eia.gov/totalenergy/data/annual/

I have added two tables representing the "value" the Wind industry has been in California for 2010 and 2011.

It has been a daunting task trying to apprise the decision makers and influential parties in the updating and amendment project concerning the LCP and the subsequent recommendations for the California Coastal Commission. Despite all the work done by groups like the EAC of Marin, West Marin / Sonoma Coastal Advocates, and many others, there is a resistance to acknowledging that WECS don't belong here and there is absolutely no merit to further consideration. There is a manufacturer of the turbine blades in Pt. Reves who has come out against WECS in Marin, reinforcing what Supervisor Kinsev has stated on multiple occasions, there is no resource here for large, much less commercial or industrial, scale WECS. They need a yearly average wind speed of 15 mph to provide even a measurable amount of electricity. Look at the charts and tables provided by the EIA, for the entire US. Isn't it interesting that the Wind industry gets no real attention? You will see in table 3.1.B that Wind represented about 37.7% of the total power generated by "Other Renewable Sources" from 2001 thru 2011. Only in this tabulation is Wind energy actually referenced separately, hereon, it is combined with the category of "Other Renewable Sources". The NET Generation by Energy Source, within the Electrical Utilities sector, for the period 2001 thru 2011, for "Other Renewable Sources" was 0.004% of the total. The share of that rather disgraceful amount for that 10 year range attributed to Wind is 37.7% of that 0.004% and is 0.135%. YES, just over one tenth of 1%, on a national scale. Since 2010 the Wind energy industry was able to struggle by on just over \$10 Billion, in subsidies alone, aside from tax benefits. The sole purpose of this industry is to abscond all the funds they can from the well intentioned monies earmarked for developing renewable energy. They have not performed and have only disguised their total lack of productivity behind terms like "capacity". Capacity is meaningless unless it is attainable. Capacity is akin to the indications you see on automobile speedometers for their maximum speed. The car in your garage has a maximum speed, an "installed capacity", of maybe 120 mph, or more. Can you get in it and do that ? NO, not any more than the overly touted "installed capacity" of WECS can. In fact, the "capacity factor" of WECS, about 35%, is the same as it is for your car, about 35% of your car's "installed capacity". The absolute truth here is the Wind industry has been defrauding \$Billions from taxpayers in a ruse to make a handful of developers and investors rich at the expense of this country's environment, its wildlife, and the scenic values of the landscape. By any and all measures a vile and veritably criminal act. Do the decision makers of Marin County want to share in the responsibility for this devastation ?. You owe it to those you are representing now, and all those you will be impacting in the future, to be extremely prudent with the precious environment of Marin County. Given what your intentions seem to be it does not appear you have educated yourselves to this folly. Are you benefiting from this assault in other than a moral way? The truth will surface soon enough, and there will be an accountability, who will cleanup the mess?. Can you be that gullible? You have a very serious decision to make that can leave you with a legacy you can be proud of, or disgraced by. There was an enormous effort, logically, afforded the entire process of amending and updating the LCP. There will be a tremendous consequence to the enactment of this monumental development framework for Marin County, along with significant implications for all of California. Please, you must be extremely careful.

Most respectfully,

Chips Armstrong 707-778-7722 Petaluma

Table 3.1.B. Net Generation by Other Renewable Sources: Total (All Sectors), 2001 - 2011

(Thousand Megawatthours)

| (Thousand Megawatthours) | | | | | | | | |
|--------------------------|--------|---|--------------------------------------|------------|------------------|---------------------------------------|--|--|
| Period | Wind | Solar Thermal and Photovoltaic | Wood and Wood-Derived Fuels | Geothermal | Other Biomass | Total (Other Renewable Sources) | | |
| Annual Totals | | | | | | | | |
| 2001 | 6,737 | 543 | 35,200 | 13,741 | 14,548 | 70,769 | | |
| 2002 | 10,354 | 555 | 38,665 | 14,491 | 15,044 | 79,109 | | |
| 2003 | 11,187 | 534 | 37,529 | 14,424 | 15,812 | 79,487 | | |
| 2004 | 14,144 | 575 | 38,117 | 14,811 | 15,421 | 83,067 | | |
| 2005 | 17,811 | 550 | 38,856 | 14,692 | 15,420 | 87,329 | | |
| 2006 | 26,589 | 508 | 38,762 | 14,568 | 16,099 | 96,525 | | |
| 2007 | 34,450 | 612 | 39,014 | 14,637 | 16,525 | 105,238 | | |
| 2008 | 55,363 | 864 | 37,300 | 14,840 | 17,734 | 126,101 | | |

465,350

73,886

94,652

120,177

1,233,058

144,279

167,173

193,981

37.740% = net generation by Wind from 2001 to 2011 of total of OTHER RENEWABLE SOURCES

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms. Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;

36,050

37,172

37,449

15,009

15,219

15,316

18,443

18,917

19,222

Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.2.A. Net Generation by Energy Source: Electric Utilities, 2001 - 2011

891

1,212

1,818

(Thousand Megawatthours)

2009

2010

2011

| Period | Coal | Petroleu m Liquids | Petroleu m Coke | Natural Gas | Other Gas | Nuclear | Hydroelectri c Conventiona I | Other Renewable Sources | Hydroele ctric Pumped Storage | Othe r | Total |
|------------|-----------|--------------------------|-----------------------|----------------|--------------|---------|---------------------------------------|-------------------------------|--|-----------|------------|
| Annual Tot | als | | | | | | | | | | |
| 2001 | 1,560,146 | 74,729 | 4,179 | 264,434 | - | 534,207 | 197,804 | 1,666 | -7,704 | 486 | 2,629,946 |
| 2002 | 1,514,670 | 52,838 | 6,286 | 229,639 | 206 | 507,380 | 242,302 | 3,089 | -7,434 | 480 | 2,549,457 |
| 2003 | 1,500,281 | 62,774 | 7,156 | 186,967 | 243 | 458,829 | 249,622 | 3,421 | -7,532 | 519 | 2,462,281 |
| 2004 | 1,513,641 | 62,196 | 11,498 | 199,662 | 374 | 475,682 | 245,546 | 3,692 | -7,526 | 467 | 2,505,231 |
| 2005 | 1,484,855 | 58,572 | 11,150 | 238,204 | 10 | 436,296 | 245,553 | 4,945 | -5,383 | 643 | 2,474,846 |
| 2006 | 1,471,421 | 31,269 | 9,634 | 282,088 | 30 | 425,341 | 261,864 | 6,588 | -5,281 | 700 | 2,483,656 |
| 2007 | 1,490,985 | 33,325 | 7,395 | 313,785 | 141 | 427,555 | 226,734 | 8,953 | -5,328 | 586 | 2,504,131 |
| 2008 | 1,466,395 | 22,206 | 5,918 | 320,190 | 46 | 424,256 | 229,645 | 11,308 | -5,143 | 545 | 2,475,367 |
| 2009 | 1,322,092 | 18,035 | 7,182 | 349,166 | 96 | 417,275 | 247,198 | 14,617 | -3,369 | 483 | 2,372,776 |
| 2010 | 1,378,028 | 17,258 | 8,807 | 392,616 | 52 | 424,843 | 236,104 | 17,927 | -4,466 | 462 | 2,471,632 |
| 2011 | 1,301,107 | 11,688 | 9,428 | 414,843 | 29 | 415,298 | 291,413 | 21,933 | -5,298 | 604 | 2,461,045 |
| | | | | | | | of Other | 98,139 | | | 27,390,368 |

37.74%

37037 / 27390368 =

SO WIND is ??

of Other Renewables

Total Electricity System Power

2010 Total System Power in Gigawatt Hours

| Fuel Type | California In-State Generation (GWh) | Percent of California In-State Generation | Northwest Imports (GWh) | Southwest Imports (GWh) | California Power Mix (GWh) | Percent California Power Mix |
|------------------------------------|---|--|-------------------------------|-------------------------------|----------------------------------|------------------------------------|
| Coal | 3,406 | 1.70% | 783 | 18,236 | 22,424 | 7.70% |
| Large Hydro | 29,861 | 14.60% | - | 1,333 | 31,194 | 10.80% |
| Natural Gas | 109,481 | 53.40% | 1,330 | 10,625 | 121,436 | 41.90% |
| Nuclear | 32,214 | 15.70% | - | 8,211 | 40,426 | 13.90% |
| Oil | 52 | 0.00% | - | - | 52 | 0.00% |
| Other | 0 | 0.00% | - | - | 0 | 0.00% |
| Renewables Biomass | 30,005 5,745 | 14.60% | 7,586 1,149 | 2,205 | 39,796 6,894 | 13.70% |
| Geothermal | 12,740 | 6.20% | 1,140 | 673 | 13,413 | 4.60% |
| Small Hydro | 4,441 | 2.20% | 554 | - | 4,995 | 1.70% |
| Solar | 908 | 0.40% | - | 51 | 959 | 0.30% |
| Wind | 6,172 | 3.00% | 5,883 | 1,481 | 13,536 | 4.70% |
| Unspecified Sources of Power | 0 | 0.00% | 14,978 | 19,881 | 34,859 | 12.00% |
| Total | 205,018 | 100.00% | 24,677 | 60,492 | 290,187 | 100.00% |

100.00%

Source:

QFER and SB 1305 Reporting Requirements. In-state generation is reported generation from units 1 MW and larger

Previous year's information (2009 Total System Power)

Total Electricity System Power

2011 Total System Power in Gigawatt Hours

| Fuel Type | California In-State Generation (GWh) | Percent of California In-State Generation | Northwest Imports (GWh) | Southwest Imports (GWh) | California Power Mix (GWh) | Percent California Power Mix |
|---------------------------|---|--|-------------------------------|-------------------------------|----------------------------------|------------------------------------|
| Coal | 3,406 | 1.70% | 2348.966 | 26,612 | 30,800 | 7.70% |
| Large Hydro | 29,861 | 14.60% | - | 61,055 | 90,916 | 10.80% |
| Natural Gas | 109,481 | 53.40% | 164,570 | 224,623 | 284,676 | 41.90% |
| Nuclear | 32,214 | 15.70% | - | 72,641 | 104,856 | 13.90% |
| Oil | 52 | 0.00% | - | - | -52 | -0.10% |
| Other | 0 | 0.00% | - | - | 0 | 0.00% |
| Renewables Biomass | 30,005 | 14.60% | 48,739 | 64,844 | 80,949 | 13.70% |
| Geothermal | 5,745 12,740 | 2.80% 6.20% | 1,149 | 26153 | 6,894 38,893 | 2.40% 4.60% |
| Small Hydro | 4,441 | 2.20% | 1661.956 | 20133 | 4,995 | 1.70% |
| Solar | -907.992 | 0.40% | - | 285.6706667 | 260.1721667 | 0.23% |
| Wind | 6,172 | 3.01% | 14,620 | 18,446 | 22,273 | 4.70% |
| Unspecified Sources of | 0 | | 42.420 | F2 064 | 62.001 | |
| Power Total | 0 205,018 | 0.00% 100.00% | 43,120 390,629 | 53,061 523,384 | 63,001 656,139 | 12.00% 100.00% |

100.00%

Source:

QFER and SB 1305 Reporting Requirements. In-state generation is reported generation from units 1 MW and larger

Previous year's information (2009 Total System Power)