

A BRUCCI LLC
9880 N MAGNOLIA AVE #123
SANTEE, CA 92071

Mathew Schneider,

After reading the proposed new wind ordinance I would like to offer the following:

I am sure you have heard from others who are much more qualified than I to discuss the details of the new wind ordinance, whose experience can more easily and eloquently present the problems, inconsistencies and unattended consequences inherent in said ordinance.

What I would like to do is present the personal journey I have taken so far and the effect the new wind ordinance would have on the completion of said journey.

First of all "Who am I?"

I am not an expert in renewable energy. But my formal education in physics and 35 years of experience in microelectronics, lithography, xerography, optics and acoustics, 30 years of which was for a company well known for innovative technology invention and development, makes me qualified to determine if claims made by technology opponents or proponents are consistent with the laws of nature. In other words "A lie detector".

I am not an environmental extremist. But I do believe that there is a point of environmental modification that we should not cross for the sole purpose of human progress.

I came out of retirement because as a Constitutionalist and capitalist I believe that private individuals should do what they can to help those men and women of the military who have kept us free to pursue our own self interest but now need our help.

As A Brucci's Vice President of Technology Assessment it is one of my responsibilities to insure that technologies used in proposed projects are consistent with the corporate mission and goals.

A Brucci's published mission is:

**Guided by the Principles of Capitalism.
Guaranteed by the Wisdom of the Constitution.
Protected by the Strength of the Military.
Our mission is to demonstrate, via a sequential series of initiatives,
that private business can increase the level of employment,
decrease the dependance on foreign energy,
stabilize local economies and still make a profit
without undue hardship on the environment.**

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Draft Responses to Comments

**A Brucci acknowledges that without the dedication and sacrifice of the men and women of the military and their families we could not accomplish our mission.
We salute them all, past, present and future**

The first of these initiatives is to establish a five acre organic hydroponic nursery to be staffed by veterans who are having difficulty transitioning from military to civilian life.

Hydroponics is extremely environmentally friendly in that it does not deplete any minerals or nutrients from the soil and consumes only 10% of the water normally needed for agricultural irrigation.

What it does consume is energy. Our consulting engineers have determined that such a nursery will need a 3mW energy supply. This energy is needed to cool the nursery in the summer, warm it in the winter, pump water from the well to the nursery and filter and circulate the water within the confines of the nursery as well as supply the energy needs to house the veterans who will be living on the property.

The cost of energy, in the form of electricity, is high and will only increase in the future. If we were to generate our own electricity then we can greatly stabilize future production costs and help keep the cost of our product low and predictable. Since A Brucci is blessed with an abundant supply of the renewable energy resources SUN and WIND it is a match made in heaven. There is also the added benefit that any energy excess can be delivered to the Sunrise Power Line which is less than one mile from our property. This excess will help reduce our dependency on foreign oil and/or the burning of fossil fuels.

My analysis has determined that harnessing the SUN should only be done when other renewable resources are either not available or not practical (such as large wind turbines in the middle of housing tracts). 3mW of solar power would require about 18 acres of land to be covered with solar panels. 18 acres is an awful lot of habitat to disturb for only 3mW. A little publicized drawback of solar panels is the use of water to clean off any dust or air pollutants which accumulates on them over time. I found this out the hard way. Within 3 months of installing solar panels on my roof I noticed a drop of daily energy generation even though the days were getting longer and daily energy generation should have gone up. When I climbed on the roof I found that the panels were covered with dust blown onto them from the nearby mountains. I live in Los Angeles and I am sure the air pollution added to the problem. Because of my age and less than optimal health I had an automatic panel washer installed. After experimentation I found that I needed at least 100 gallons of water to clean the 635 square feet of panels. Fortunately I was able to collect the wash water and use it to water trees and plants in my yard. Unless a more effective way of cleaning the panels is used installing an automatic washer would be very expensive and I extrapolate that it would take about 123,000 gallons of water to clean 18 acres of panels each time they are cleaned. Several workers with a bucket of water and a squeegee would use less water but think of what they are doing to the habitat beneath their feet.

R-1
Cont.

Draft Responses to Comments

My analysis of wind has led to a different conclusion. I have determined that wind turbines are the most environmentally benign method, available to A Brucci, of generating energy. There is a great deal of information on the internet about Horizontal Axis Turbines. Unfortunately most of it references 30 year old technology, obvious lack of proper maintenance, engineering destruction tests presented as “dangerous designs” or is anecdotal in nature. This makes it very difficult to determine “THE TRUTH”. My research has uncovered two of the biggest concerns with wind turbines: noise and bird kill. While progress in the design of Horizontal Axis Turbines continues to reduce these problems, I have found that Vertical Axis Turbines while less efficient, appear to have solved them.

We are currently looking for a VAT vendor.

Now the new wind ordinance comes into play.

You are proposing to limit our energy production to 50kW. This is only 1.6% of our needs for the first initiative. We have identified seven more that we would like to do. It would not be worth the effort to put in only 1.6% of what we would need. Not only would we have to rethink the first initiative but all others as well. Not generating our own energy when it’s there for the using is unsound business practice. Setting an absolute limit has no apparent reason and would appear to be an abuse of power. If you say we can generate what we need would bring a shout of “THANK YOU” from us and many more besides.

Dennis Sandstrom, Vice President



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Cont.



R-2

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Response to Comment Letter R

**A Brucci LLC
Dennis Sandstrom**

- R-1** This comment does not raise significant environmental issues for which a response is required. Nonetheless, the County appreciates this information establishing the commenter as a stakeholder for the proposed project.
- R-2** This comment does not raise significant environmental issues for which a response is required, but recommends that the County expand the provisions for small wind turbines. It should be noted that the proposed ordinance does not limit wind energy production to 50kW. Turbine projects generating over 50kW would be allowed under the provisions for large turbines. The proposed ordinance would expand opportunities for wind energy projects when compared to the existing Zoning Ordinance provisions for wind turbines. See also response to comment C2.

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