

**Shenot, John PSC**

**From:** Jeffrey J Weber [jweber2340@aol.com]  
**Sent:** Monday, June 01, 2009 9:29 PM  
**To:** Shenot, John PSC  
**Cc:** jweber2340@aol.com

Public Service Commission of Wisconsin  
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John,

Please forward my comments for public review and the PSC board.

First of all I would like to give some background. Bringing in the first commercial wind turbine to Wisconsin in 2000. (Vestas V-15) At that time I acquired a contract with Alliant Energy as a commercial energy producer for up to 1 MW of power. Afterwards I added another V-15, 20kw experimental and a 3kw experimental. I also want to note that I install, maintain, update, service, test, and add new equipment. My training as come from actual wind farm operators such as Windland, Oak Creek Energy, and others. My experience help me land a consultant job for a nearby 54MW wind farm for 2 years. I ask when you review comments from individuals, engineers, consultants, reps, ect. that it be made clear if these people actually own and operate turbines. My opinion, it's easy to spend other peoples money. But, if it's so great, why don't they own or invest in them??

The home I live in along with my 6400 sq ft warehouse \ shop is heated with electric using no fossil fuel. I'm 100% green selling off the excess power to Alliant Energy.

In Regards to ARTs. I feel it's a very good proposal. However, it does contain flaws. One is turbine efficiency. In the last 2 years turbines technology has really improved. To put in in simple terms, the generator size is smaller with the rotor size larger. (or longer turbine blades increasing swept area with generator size remaining the same or smaller). What this does is raise the efficiency of the turbine. Some turbines are simply not designed to be installed in Wisconsin. This includes some Mega Class Models of turbines. All wind farms work with turbine manufacture and model to wind efficiency from what i see around 36 - 38% (High wind models, medium wind and low wind models)

I do not want to discuss turbine manufactures, but I do know that I can save Mr. taxpayer, purchaser up to \$150,000 on turbine equipment designed for low wind at around the 100,000kwh (yearly) output range. In simple terms, ARTs should be restricted to at least a 28% plus turbine to average wind speed (calculation of average wind speed to generator output and size ) This suggestion is based on above a 20kw generator size and assuming net billing will remain for 20kw and under. Efficiency does also relate to small turbines but the cost tends to be higher per kw output.

Another point I want to make is the unfairness in the current pay. WE energies volunteers Net Billing of a selected number of customers up to 100kw (not sure if this current) Alliant Currently pays me about 3.5 cents per kwh night time and 8.5 kwh daytime. All utilities should be on the same pay big or small. The small utilities need green portfolio to comply with State Federal Regulation in regards to Green Energy just like the large utilities. ARTs should be the same for all.

ARTs compliance and regulation. It's seems like everybody is now an consultant, engineer, what-ever in the wind business. There should be Focus on Energy regulation \ monitoring. (Such as a list of recommended consultants, engineers, ect. )

Last comment. The state really needs to support dealer \ installers \ service businesses who maintain the

equipment. ARPs does no good on equipment sold when there is nobody to service it. Consultants have a role but I feel full service installers should be required to sell, install, and service the turbine, to qualify for any funding including ARPs. Self installers, should not qualify for ARPs funding unless they work under a full service installer's supervision and responsibility. Qualified Installers core business should be green energy.

My company along with others who are full time with huge investments (or want to expand) will never be successful if everyone is now selling turbines or consulting installation without intention to service the unit for 20plus years. (This includes local stocked parts that can be obtained quickly, not in a month) Again, Focus on Energy really does a good job working with qualifying and tracking installers.

Food for thought would be required 5 year maintenance agreements by a qualified service provider. This is very important to keeping the units running. This could be a requirement for all funded turbine installs.

These are my honest views and I would encourage anyone who reads this to give the PSC their view to help them make well informed decisions to promote green energy.

Go Green!

Jeff

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## Shenot, John PSC

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**From:** Jeffrey J Weber [jweber2340@aol.com]  
**Sent:** Wednesday, June 03, 2009 7:29 AM  
**To:** Shenot, John PSC  
**Subject:** Public comments ARTs

John,

Please include one more comment in regards to ARTs.

Again, ARTs I feel is a good program. ARTs payment calculations should give a higher rate of return for hybrid Wind \ Solar systems.

Adding and combining Solar with Wind equipment (Hybrid) increases the efficiency of the system. (my opinion)

Regards.

Jeff

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