



PublicService Commission <psc@utah.gov>

Project turbine "Owl 1000 Wind & Water - 4Turbo"

1 message

Ernesto Frassinelli <info@frassinelli.org>

Wed, Jun 22, 2016 at 11:53 AM

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Dear Sirs,

I know your Organization from just a few days, and I completely agree with your great values well expressed in your site, but I have some doubts about your real chance to achieve your energy goals.

I'm absolutely sure that wind energy can play an important role in the future of renewables, but wind power (and solar too), are so unpredictable that a power output, optimized on the real needs of the moment, is extremely difficult to obtain.

The only way, I believe, to balance energy lacks or over-production, is to integrate these sources into a structure of energy storage, mainly based on water, able to manage outputs and converting them primarily into hydroelectric energy.

Be sure that wind (and maybe solar) industry is going, from several years, in a wrong way, simply because very few machines are able to maintain their energy promises, especially in the medium/ long term, and this can be easily verified analyzing the real energy performances of actual horrible and dangerous axial-flux wind turbines, with their inefficient three-blade architecture.

In order to give my personal support to renewables future, I've developed a project able to greatly improve the access of human communities to energies of nature, increasing the efficiency of Wind and Water based machines, but without exceeding a "human scale" with maximum dimensions similar to the OLD WINDMILLS, and according with philosophy of "Decentralized power".

With the aim to realize my vision I designed and partly developed a project of a polyvalent energy system named "Owl 1000 Wind & Water - 4Turbo" (att. Table with the same name) that resume in a single machine what's actually done by four other separately (Wind Turbine, Wind Pump, Electric Pump and Water Turbine) and which can work together or separately.

This system is the top evolution of a series of micro/mini wind turbines, named "Owl" for their noiseless, and also characterized by their efficiency and dependability, born to create energy suitable for domestic and neighbourhood use, even in hostile environments and climates, with a level of maintenance minimized and mainly accessible to users in rural areas.

These wind turbines are designed to produce electricity, water management or both two (3+3 sizes in 2 different architectures), or, in version "Hydro"(only 1 size), able to produce electricity from surface river flows and deep sea flows (att. Brochure Owl 1000 Brochure ...).

Actually it's possible to start the series production, in a very short time, but only with 3 sizes (for electricity and water power), which project we have mostly developed and realized some prototypes, selected potential suppliers and related costs, that I think can also be found in your country (att. Owl WIND Project_Table # 1-4 ...).

Further models require a partial development of the propeller's technology and a general resize of the mechanical architecture.

I trust that your Organization has the will to manage, directly or through your associates, my project, possibly manufactured in your country, even if powered by photovoltaic panels, doing work to hundreds of people, but possibly also be exported and manufactured in all the countries you are trying to help to alleviate the hunger of water and energy.

I hope you can help me and I beg your pardon if I'm not talking with the right person, and if you have any doubt or you need further informations, don't

hesitate to contact me.

Best regards

Ernesto Frassinelli

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P.S. Here enclosed there are some interesting articles about Wind Turbine underperformance (valid both for small and wide size)

<http://www.windontario.ca/>

<http://www.epaw.org/echoes.php?lang=en&article=n479>

<https://windfarmaction.wordpress.com/the-dummies-guide/wind-speed-v-performance/>

3 attachments



Owl 1000 Wind & Water - 4Turbo_01.pdf

544K



Owl 1000_Brochure_ENG_Part-A+B+C+D.pdf

1920K



Owl WIND Project_Table # 1-4_light.pdf

1026K