



Heating water with wind turbine

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Permaculture is a gestalt ... a study of the whole. Not just how to produce more and better food, but how human life on the planet affects and is affected by the surrounding environment. Bill Kearns

"the qualities of these bacteria, like the heat of the sun, electricity, or the qualities of metals, are part of the storehouse of knowledge of all men. They are manifestations of the laws of nature, free to all men and reserved exclusively to none." SCOTUS, Funk Bros. Seed Co. v. Kale Inoculant Co.

Michael Shumate wrote: Failing that, I'd like someone's ideas on converting a transmission into a heat generator. What say ye?

r john wrote: In the UK the larger wind turbines 7MW are moving away from direct generator connection due to the size of the gearbox needed. Instead hydraulics are being used which as a byproduct produces usable heat for other processes.

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r john wrote: Don't have inside knowledge on the 7MW turbine but with any large hydraulic system you always have some kind of oil cooler or heat exchanger. Technology for turning hot thermal oil into steam is what I use in power generation. Applying the same technology to a hydraulic wind turbine would only require a steam hydraulic oil pump as the existing power train would be utilised for power generation.

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r john wrote:I cannot believe this attitude I know the US is very wasteful when it comes to energy but heat recovery systems are pretty standard in UK. As for more expensive hydraulic fluid or improved seals and more frequent fluid replacement that is just rubbish. We even have an oil cooled rather than water cooled engine so that we can recover the waste heat in a useable manner rather than just cooling to the atmosphere. It might only be an extra 1 or 2% generated but on a 500kw machine every little helps.

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