

Re: Electricity Transmission

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- *From:* dave.walters@xxxxxxxxxxxx
 - *Date:* Sat, 07 Jul 2007 09:43:56 -0700
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On Jul 7, 4:48 am, Cockamamie Khomeini <Khome...@xxxxxxxxxxxxxx> wrote:

Joe Strout wrote:

In article <468e8854\$0\$20554\$4c368...@xxxxxxxxxxxxxx>, Cockamamie Khomeini <Khome...@xxxxxxxxxxxxxx> wrote:

Sugna41 wrote:

Is it possible to transmit electricity on a large scale without transmission lines? As an example, from a dam in northern Canada to say New York city? I undersatnd there is such a thing developed as a wireless battery charger.

Actually that is what radio is. You need to transmit 100.000 watts to get one quarter watt fifty miles. Not very efficient.

Radio's not designed for power transmission; for one (major) thing, the transmission is omnidirectional.

Wrong. Microwave radio is line of sight with similar power losses. They use parabolic reflectors to concentrate the beam but it still scatters all over the troposphere.

However, wireless power transmission (WPT) is quite feasible, even over thousands of km, provided you have a direct line-of-sight of course. Do a search for "wireless power transmission" and you'll find quite a few

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results.

It's been studied pretty extensively as one part of space solar power, since of course it's the only practical way to get the electricity down to the ground. It works fine, though the longer your transmission distance, the bigger your transmitter needs to be to keep a tight beam.

Best,
– Joe

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Cockamamie Khomeini

Leader of the known (Islamic) world.

Looks, it's not going to happen so give it up. Over short distances microwave transmission can broadcast some power but losses are amazing. Environmentally, I've seen what happens to birds when one lands next to a microwave transmitter in the 50kw range. Poof! Not gonna happen.

D.

david

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