

sci.energy: Re: Using nuclear power to make renewables and a hydrogen economy cost effective

## Re: Using nuclear power to make renewables and a hydrogen economy cost effective

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From: charlie2 (*charlie2\_at\_ev1.net*)

Date: 10/31/04

Date: Sat, 30 Oct 2004 19:33:05 -0500

Don Lancaster wrote:

> *charlie2 wrote:*

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>

>>

>> *Again, Dave, I think you're wasting your time here. Ian is probably*

>> *not going to understand that the efficiency is strictly dependent on*

>> *the source and sink temperatures, and has nothing to do with heat*

>> *exchange, unless that heat exchange is actually a heat leak to the*

>> *environment.*

>>

>>>

>>> \*\*\*\*\* DAVE HATUNEN (*hatunen@cox.net*) \*\*\*\*\*

>>> \* *Tucson Arizona, out where the cacti grow* \*

>>> \* *My typos & misspellings are intentional copyright traps* \*

>

> *A more correct statement would be that the BEST POSSIBLE efficiency is*

> *strictly ....*

Agreed. I thought of this, but wasn't quite as forceful in stating it.

>

> *The rest of the efficiency is crucially dependent on heatsink*

> *characteristics.*

> *It is trivially easy to get most of the delta-T drops across the input*

> *and output thermal interfaces, leaving absolutely nothing (and often*

> *LESS) for Carnot to work with.*

>

> *Especially with low delta-T schemes.*

>

> *For instance, it is trivial to build a Peltier cooler with a 20 degree*

> *drop across itself and a 40 degree rise across its heatsinks.*

Can you give me a link that has a good example of the low delta-T schemes?

I'm not familiar with a Peltier cooler, and a picture would help enormously.