

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

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From: Ian St. John (istjohn_at_noemail.usa)

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Alex Terrell wrote:

> "Ian St. John" <istjohn@noemail.usa> wrote in message
> news:<[ahpgd.22396\\$Qs6.1718730@news20.bellglobal.com](mailto:ahpgd.22396$Qs6.1718730@news20.bellglobal.com)>...
>
>>>
>>> So here's the difference – I see more "green" opportunities for
>>> producing electricity (wind, wave, tidal, photo-voltaic), than I do
>>> for producing hydrogen (bio diesel, thermal processes).
>>
>> So this is all about your limited viewpoint??
>
> No, it's about the view point of lots of individuals who contribute to
> this discussion.

No. It is you that is of the opinion that .. "I see more "green" opportunities for producing electricity " I doubt that all of those other individuals agree with your one sided logic and certainly do not form a support group for your feeble arguments.

> Many individuals seem to know quite a lot. Others,
> like yourself, can't tolerate anyone expressing an opinion which
> doesn't agree with their "one issue crank" point of view.

Obviously, since it is you that has taken a 'dogmatic position', you should look in the mirror if you want to see a crank.

>
> What I've done is try to see what we're disagreeing about. I repeat
> for your benefit: I see more "green" opportunities for producing
> electricity (wind, wave, tidal, photo-voltaic), than I do for producing
> hydrogen (bio diesel, thermal processes). You seem to believe the
> reverse.

No. I see all sorts of opportunities for all sorts of separate systems The biggest problem with alternative energy will be all those separate systems. What happens when you run your vehicle on cellulose ethanol and the only

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pump in the 'one horse' hick town serves biodiesel? Fact is that flexibility in fuel or energy systems will be the key ingredient to a sustainable future unless you want to put all eggs in a different basket, such as hydrogen from coal. Or in the case of your hobbyhorse, electricity.

>
> *Is that correct?*

No.

>>
>>> *Electricity will be*
>>> *cheaper than hydrogen from non fossil sources, and it's much more*
>>> *useful for anything except heating.*
>>
>> *False. Electricity stored in batteries is VERY poor use of fuel and*
>> *highly inefficient. They have ALWAYS failed to make the 'all*
>> *electric car'. Hydrogen give a good balance of quick fueling,*
>> *efficiency and range. Well, so would alcohol, etc but..*
>
> *Firstly, I haven't mentioned batteries at this point.*

False logic. You have to have batteries to store electricity. Super capacitors cannot hold that level of electricity storage.

> *But now you*
> *mention it; Power station fossil fuel to transmission to battery to*
> *motor; comes to a similar efficiency as fossil fuel to internal*
> *combustion engine.*

Probably not. Smoke and mirrors. I would suggest that replacable zinc panels (conversion of electricity to chemical energy) followed by use of zinc/air battery in vehicle would be the most convenient in terms of 'recharging' to use electricity unless you can find a way to reverse a 'sodium borohydride battery' to produce sodium borohydride solutions as an energy medium. Where electricity (probably erratically supplied) is the main output of a green energy source, the use of storage is mandated and conversion to chemical energy suitable to reconversion to electricity is the obvious choice.

>>
>>> *Ideally it would be nice to match demand and supply of both, to*
>>> *minimise conversion one way or the other.*
>>
>> *You may need to produce a certain amount of electricity to fully*
>> *generate the hydrogen (coal to hydrogen conversion with mineral*
>> *sequestration) to get enough 'process heat' to balance the*
>> *thermodynamics.*
>>
> *You're digressing.*

No. The issue was green energy development.

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>>>

>>> *Given this, we would want to do as much as possible with
>>> electricity, rather than hydrogen. Hence the merits of plug-in
>>> hybrids.*

>>

>> *Do you have another tune? You really are kind of boring.*

>>

> *A three year old would find calculus boring. It's way beyond them.*

> *They might say "can we play something else. You really are kind of
> boring"*

I meant in a mindless sort of way. Repeating an assertion without a shred of logic is boring even to the well educated. They look for some intriguing ideas and you come up way short.

.