

Re: Low Cost Hydrogen is here to stay

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- *From:* Monkey Clumps <spacebrain71@xxxxxxxxxx>
 - *Date:* Wed, 12 Dec 2007 06:19:10 -0800 (PST)
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On Dec 9, 8:24 am, Willie.Moo...@xxxxxxxxxx wrote:

On Dec 9, 8:20 pm, Eeyore <rabbitsfriendsandrelati...@xxxxxxxxxxxxxx> wrote:

Willie.Moo...@xxxxxxxxxx wrote:

Eeyore wrote:

Willie.Moo...@xxxxxxxxxx wrote:

Eeyore wrote:

How many
tons of
*electrolytically
manufactured*
hydrogen
have you
sold to
date ?

\$24 billion worth. 1/3 of it
will be used to upgrade
lower rank
fuels, 2/3 will be burned
directly.

And when will you deliver these 30 million
tons ?

Re: Low Cost Hydrogen is here to stay

30 billion you mean

No, I meant 30 million tons. As in \$24 bn/ \$800 per ton.

– these are 40 year contracts with first deliveries in 2011.

OK. Good luck with that.

Graham

Thanks, I can feel the love. lol.

William, here are a few engineering type questions regarding your plans:

1. How will airborne contamination, dust, dirt, soot, pollen, etc. that floats around and lands on things outside impact the optical performance of your PV devices? How often will the need to be cleaned or otherwise maintained to achieve desired performance? How will they be cleaned?
2. Since your projects are located in the tropics, it seems likely that in the course of a few decades, one of your sites may be hit by a tropical cyclone. Your description of the PV devices made them sound somewhat lightweight in construction. How do you anticipate they would weather a cyclone?
3. In addition to the creative and proprietary technical aspects of your projects, it would seem to me that there will be a large amount of meat and potatoes engineering to build the type of facility you describe. Is your company doing the detail design of the entire project? Who is going to do the construction?
4. For the electrolyzer, what will be the source of water? How pure does the water need to be and what will you do with the removed contaminants?
5. After the hydrogen is produced does it need to be liquified for use in your coal to high quality hydrocarbon process? How are you going

Re: Low Cost Hydrogen is here to stay

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to deal with the metal embrittlement issues in handling the hydrogen?

6. Where will the PV devices, electrolyzer and coal-to-liquid reactor be designed and built? Is your company designing and supplying all of that equipment?

7. How big is your company? Do you intend to take it public eventually?

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