

# Re: The new fur trade

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- *From:* Dori <[zalmoxis@xxxxxxxxxx](mailto:zalmoxis@xxxxxxxxxx)>
  - *Date:* Mon, 14 Nov 2005 07:32:58 -0500
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John H wrote:

Eventually, clean and safe helium-3 based fusion reactors could replace fission plants, but the time frame is certainly decades, if not more, at our present rate of research."

How can scientists be sure it is possible until they have done it?

John

"JoeSP" <[olegp@xxxxxxxxxx](mailto:olegp@xxxxxxxxxx)> wrote in message [news:k1Rdf.195632\\$ir4.32297@xxxxxxxxxxxxxx](mailto:news:k1Rdf.195632$ir4.32297@xxxxxxxxxxxxxx)

One of the cleanest known sources of energy is from a fusion reactor powered by Helium-3. The only by-product is pure, clean water, that could make tea.

The problem is that it doesn't exist on earth in any significant amounts. The moon however, is loaded with it.

Too expensive you say? One metric tonne can produce about 4 billion US dollars worth of electricity. One loaded shuttle (25 tonnes) can bring back enough Helium-3 to power the entire electrical needs of the US for a year.

Another idea: Produce the energy on the moon, and beam it back to earth with microwaves. Sounds like a paying proposition to me.

Once we get set up on the moon, and eventually deplete it's reserves, the other planets have much more vast quantities of Helium-3 to exploit.

## Re: The new fur trade

The future is energy, and it's name is Helium-3.

<http://www.ottawasun.com/Money/2005/11/11/1301778-sun.html>

Scientists can be sure its possible as scientists research and prove possibility theoretically. Empirical proof is not exactly necessary... but is usually required by laws in order to assure safety.

"Produce the energy on the moon, and beam it back to earth

>>with

>>microwaves"

You do realize that most of the uW will be blocked by the atmosphere.. and if you have a high enough level, you will do nothing more but fry the living creatures on this dear earth. Cosmic rays have a lotta energy that can be collected but not used.. since its distant. But in the future, sollar arrays in orbit are probably going to exist.. very plausible solution to our sustainability issue.

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