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I don't imagine you're aware that the Ministry of Defence at the end of last year updated a paper called "[Global Strategic Trends out to 2040](#)". On page 93 it mentions that the development of commercially available cold fusion reactors could result in the rapid economic marginalisation of oil-rich states.

Now whilst I'm sure that Venezuela ten years hence is of no concern to the enquiry, you may not know that large companies are working on cold fusion, for example Mitsubishi Heavy Industries, Cyclone Power Technologies, NASA, and a new and specifically formed one called Industrial Heat, which has substantial investment backing. Although refreshingly, as it's not hugely expensive technology (to wit: the 13 year old Preston schoolboy just the other day), it seems to be the smaller companies such as Brillouin Energy and Lattice Energy who are ahead of the field. As a point of interest, when Brillouin called in patent lawyers to help draft their applications and showed them what they were doing, to a man the lawyers said 'don't bother to pay us, please can we have some shares instead?'.

Cold fusion is going to be a complete game-changer, as it generates large amounts of excess heat by fusion of nickel and hydrogen or deuterium atoms in a lattice and is totally pollution free. Brillouin describe coal-fired power stations as the 'low hanging fruit' as they're simple to convert; they have a contract to convert a stranded asset coal-power station to CF later this year. So unless somebody else pulls a rabbit out of the hat in the meantime, this will probably be the first practical application of CF and then we will see the floodgates open once the technology is shown to work.

In addition, there is a race to be first to market with domestic boilers, which are awaiting certification in the US. These will be smaller and cheaper than conventional boilers, emission free and will heat your house at very low cost.

So I would suggest that windfarm developers would be better off pursuing cold fusion licences (indeed, I gather that Vattenfall is in fact doing so) rather than annoying and disrupting the local populace and wasting resources on inefficient and obsolete technology. And who knows, perhaps the Mr Fusion generator on Doc Brown's DeLorean in *Back to the Future* will not be far removed from reality !

Developments and test results on CF are being announced almost weekly, so I would be happy to keep you appraised of these until the end of the enquiry if you wish.

Here are the URLs of some websites should you wish to look at this further:

Oilprice.com July 2013:

<http://oilprice.com/Alternative-Energy/Nuclear-Power/Is-Cold-Fusion-Entering-the-Final-Stages.html>

Forbes magazine January 2014

<http://www.forbes.com/sites/jeffmcmahon/2014/01/04/doe-mentions-technology-behind-the-home-nuclear-reactor-in-funding-opportunity/>

Wired UK magazine January 2014:

<http://www.wired.co.uk/news/archive/2014-01/15/cold-fusion-moves-into-mainstream>

E-cat World April 2014:

<http://www.e-catworld.com/2014/04/01/an-open-letter-to-the-ippc-cold-fusion-is-fossil-fuel-alternative/>