

Strategies for a Low-Carbon Electricity Grid With Full Use of Nuclear, Wind and Solar Capacity to Minimize  
Total Costs

The whole premise of this report is a farce. The report shows all data assuming a deregulated market where the fossil fuel powered electric facilities are replaced by nuclear, wind, and solar plants. The paper then goes on to say that these technologies will not survive without government subsidies because of revenue collapse by replacing existing plants with non-carbon based plants. The authors go on to discuss many ways in which non-carbon based technologies can compete with fossil fuel plants on the world economy. Many of these ways seem appealing at first, but upon some simple thought the reader can easily deduce that fossil fuel plants can probably use the same methods to make their product even more economical. The difference is that if fossil fuel plants take on some of these tactics their curve will smear only to the left, becoming a better option than the technologies these authors propose.

I believe that nuclear electric production can compete with fossil fuel production in an open market. That being said there needs to be some major deregulations in the nuclear field to allow for this competition to occur. Subsidizing nuclear artificially lowers cost of electricity but that money comes from the consumer all the same, so while they won't be paying the cost directly, they're still paying it indirectly. Removing a lot of unnecessary regulations from the sale of uranium fuel, the processing of fuel, the reprocessing of fuel, the commissioning of Gen IV reactors, and a whole lot of other ridiculous policy that harms the nuclear industry will allow 'green' electricity to compete on an *open* market. Until this happens though, nuclear power will not be able to compete with fossil fuels any time soon, and solar and wind will never be able to compete because they are just really bad technologies. Therefore the answer to making nuclear economically viable is less regulation, not more regulation and subsidies.