**Wind, Water, and Solar Power: Can the Intermittency Challenge of Renewables be Overcome?**

Could North America really have a reliable electricity supply when there is no sun or wind, without using fossil fuel generation?

How to do it:

1. Have a fully integrated continental scale grid with high geographic and source type diversity
2. Use conventional hydropower (dams) to fill in gaps
3. Use pumped storage hydropower
4. Use industrial scale batteries (Tesla Australian example)
5. Overbuild solar and wind capacity
6. Use overbuilt generation capacity, when overproducing, to split hydrogen from water.

Hydrogen can later be either combusted or used in fuel cells to make electricity as needed

1. Use distributed smart grid of plugged in electric vehicles to store and release electricity as needed
2. Demand side management
3. Other promising approaches (eg.compressed air, flywheels, hybrid desalination systems and more)
4. Last resort…