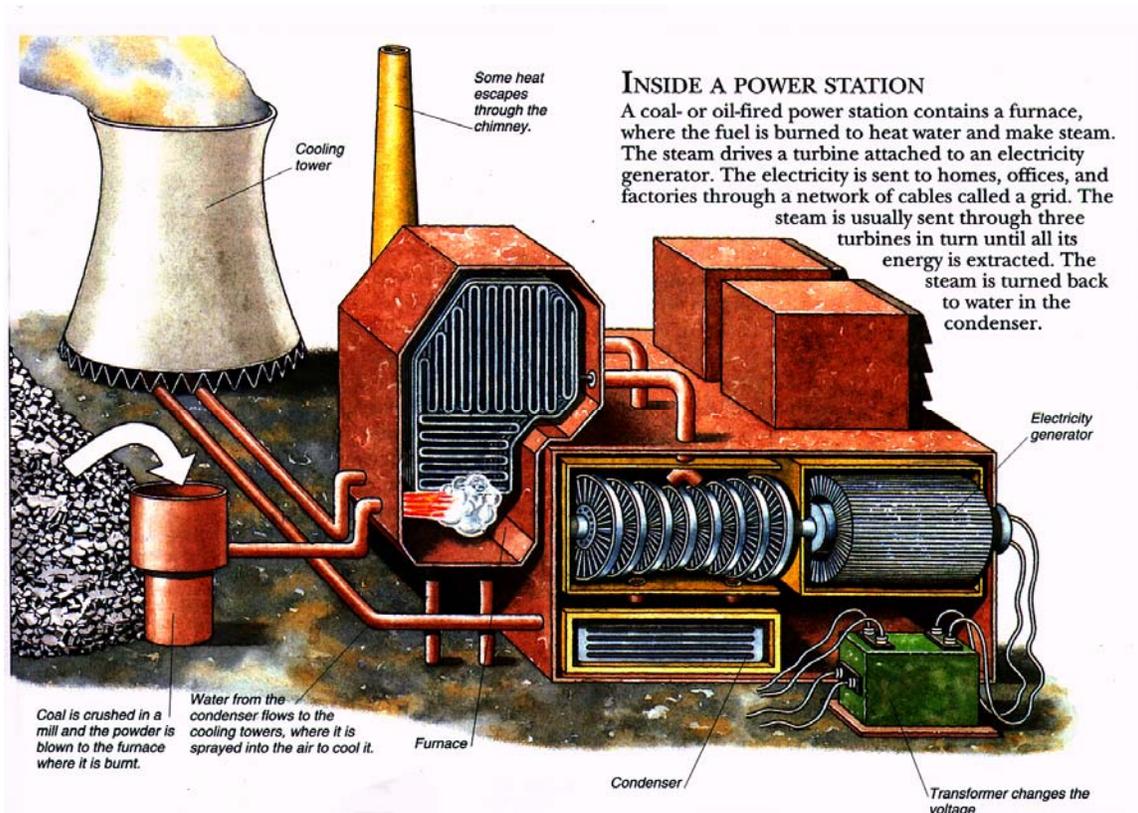


Some Facts about "THE GRID"

The term grid refers to the assimilated infrastructure of the US including power plants, connected thru transmission lines to distribution systems (your local utility) and other power plants. On paper, it is possible to transmit power from Washington State to California. However, in reality, this is not easily accomplished due to transmission losses which may be up to 75%, carrier charges and routing issues. This means that the transfer of power occurs mainly in computers, which is how ENRON was able to manipulate the market a few years ago.

The majority of grid electrical power comes from coal fired plants, also known as "base loading" plants located through out coal producing states such as Wyoming, West Virginia, etc. These plants burn coal, contribute to 50% of greenhouse gasses, mercury pollution and provide 79% of your electricity. See diagram below.



If you want to make a difference in global warming, cleaner air or anything environmentally related, **these** are the main target. Yes, China, Russia and other countries also pollute using dirty coal technologies, but the USA alone contributes to 50% of emissions with less than 10% of the worlds population. Your grid tied system without batteries will have no effect on these giants because, due to overall efficiency requirements, they **MUST** run 24 hours a day at full power potential, ready to take up all loads up to their maximum output. Since grid tied systems using solar panels (without batteries) only have output during the day-that leaves your home requiring power from the grid almost 18 hours a day. No amount of solar panels can change this scenario. Batteries are an important part of your energy reduction scenario. New battery technologies such as AGM sealed maintenance-free cells are 96% efficient, and have virtually unlimited life cycle in a grid tied system. Remember, the grid cannot store power but you can.