How do we generate electricity?

To produce electricity, a generator needs a source of energy to spin the magnets near the copper wire. The part that spins/turns is called a turbine

A source of energy that gets used up is called a non-renewable energy source.

- Fossil fuels = coal , oil and natural gas
  Burning these heats water and the steam turns the turbine.

- Nuclear fuel = uranium fission = break apart
  Splitting uranium creates heat and the steam turns the turbine.

Non-Renewable and Renewable Energy Sources

Non-Renewable Energy Source -- Thermal (Heat) Generation

Type	Interesting Points	Advantage (+)	Disadvantage (-)
Using Fossil Fuels			
Using Nuclear Fission			

A source of energy that can be replaced in a short time is called a renewable energy source. We'll look at:

1. Hydro-electric
2. Wind
3. Photovoltaic
4. Biomass
5. Geothermal

Renewable Energy Source

Type	Interesting Points	Advantage	Disadvantage
Hydro-electric (falling water)			
Wind			
Photovoltaic (solar panels)			
Biomass			
Geothermal			
