



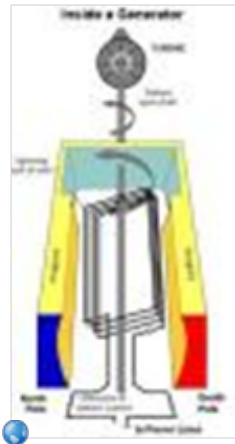
Electricity and Magnetism	
<p>Electricity</p> 	<ul style="list-style-type: none">• Flow of electric power or charge• Made of positive and negative charges
<p>Magnetism</p>	<ul style="list-style-type: none">• Attract or push away near by objects• Have a north pole and a south pole

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<p>Electromagnets</p> 	<ul style="list-style-type: none">• A wire in an electric circuit is wrapped around an iron core• The magnetic force ends when the electric current stops flowing
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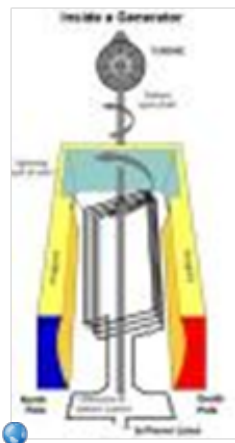
Electric generators



- Uses mechanical energy to produce an electric current
- 3 types
 - AC generator- current alternates
 - DC generator- direct current
 - Turbine- made up of blades that turn by wind, water, or steam

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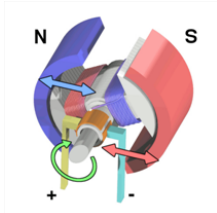
How they work?



- A generator contains coils of wire that are stationary, and rotating magnets are rotated by turbines
- Turbines are huge wheels that rotate when pushed by water, wind, or steam
- Converts mechanical energy into electrical energy

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Electric motors



- Converts electrical energy into mechanical energy

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How they work?



- It contains an electromagnet that rotates between the poles of a magnet.
- The coil of the electromagnet is connected to a battery or other source of electric current.
- When an electric current flows through the wire in the electromagnet, a magnetic field is produced in the coil.
- Like poles of the magnets repel and unlike poles of the magnets attract.
- This causes the coil to rotate changing electrical energy to mechanical energy.

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