



Unit 8- Energy and its transformation

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How we can classify the energy sources?

Explain why the electricity is the most widely used form of energy.

In the electric power plants is used a turbine-alternator system. Explain these two elements.

Copy the drawing of page 72 about the electrical transportation.

Conventional power plants.

Thermal power plant. **Explain** briefly the performing. Search in a book or in Internet an image that shows the structure and performing of this power plant and **draw** it here.

Combined cycle power plant. **Explain** briefly the performing. Search in a book or in Internet an image that shows the structure and performing of this power plant and **draw** it here. (You can use the diagram of page 74).



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Nuclear power plant. **Explain** briefly the performing. Search in a book or in Internet an image that shows the structure and performing of this power plant and **draw** it here.

Hydroelectric power plant. **Explain** briefly the performing. Search in a book or in Internet an image that shows the structure and performing of this power plant and **draw** it here.



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NON - Conventional power plants.

Explain why it have been developed the non conventional or alternative energy power plants.

Wind farms. **Explain** briefly the performing. Search in a book or in Internet an image that shows the structure and performing of this electric power generation and **draw** it here.

Solar thermal power plant. **Explain** briefly the performing. Search in a book or in Internet an image that shows the structure and performing of this power plant and **draw** it here.



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Solar photovoltaic power plant. **Explain** briefly the performing. Search in a book or in Internet an image that shows the structure and performing of this power plant and **draw** it here.

Biomass thermal power plant. **Explain** briefly the performing. Search in a book or in Internet an image that shows the structure and performing of this power plant and **draw** it here.



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Geothermal power plant. **Explain** briefly the performing. Search in a book or in Internet an image that shows the structure and performing of this power plant and **draw** it here.

Environmental impact

Summarizes the 6 points of page 76 about environmental repercussions.

Explain the waste management generated by the different power plants.

Summarizes the 4 points of page 76 about solutions to reduce the environmental impact.

