

What is an energy source?

We could call any type of energy that can be made to do useful work an energy source. But in this context energy sources refer to the ways that we store energy for use in society.

Society's need for energy is huge and so the sources must provide for millions of people all at once.

Energy sources

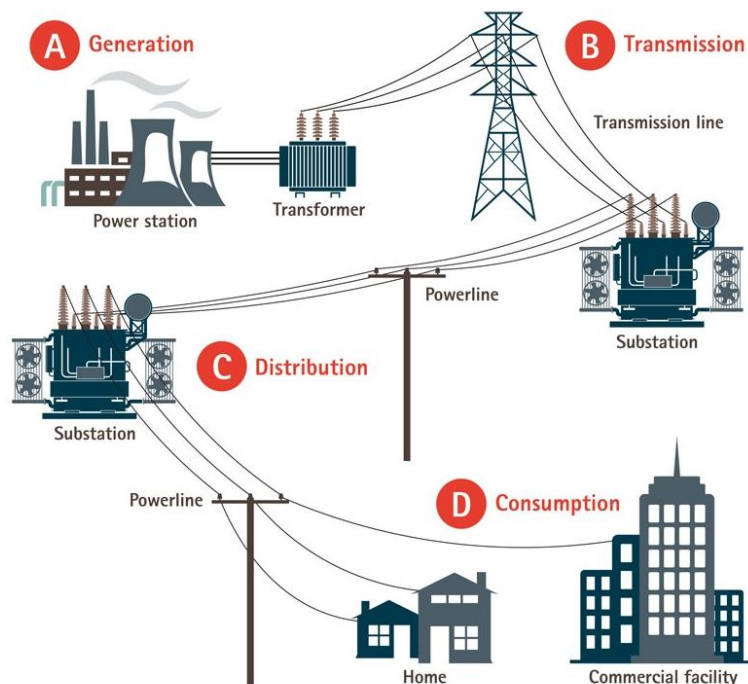
The following is a list of the most common sources of energy in society:

- Fossil fuels (coal, oil and gas)
- Hydroelectric
- Wind farms (aeolian)
- Photovoltaic
- Tidal
- Geothermal
- Nuclear

Not all countries use all forms of energy source, and there are some others. All of these energy sources are used to generate electrical energy.

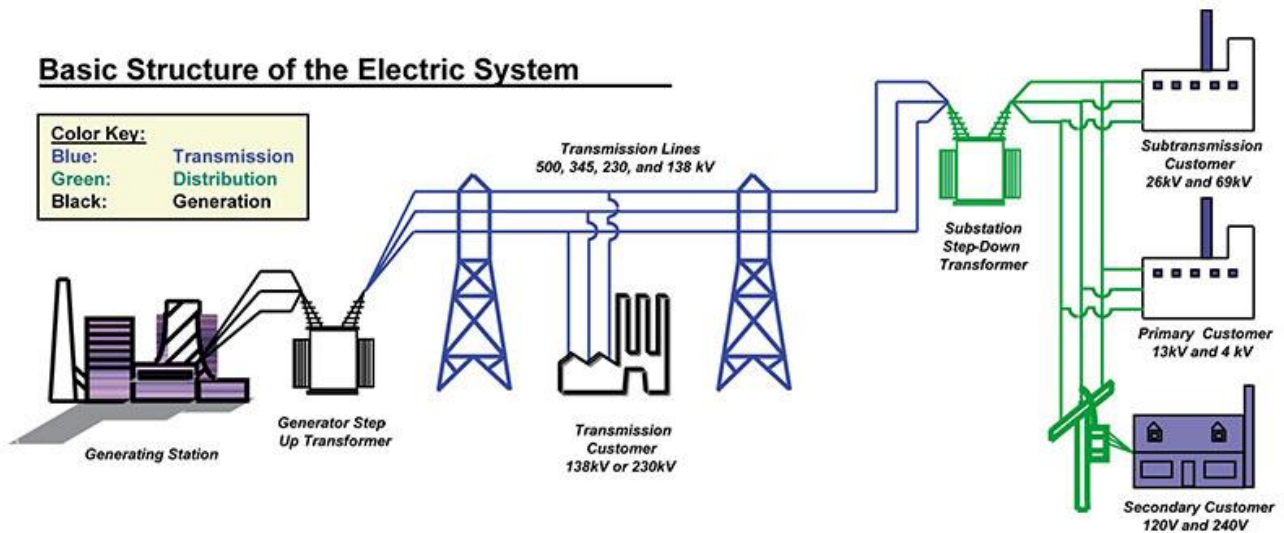
The energy grid

Energy needs to be distributed all over the country and the best way of doing this is as electrical energy. A network of cables covers the country as the electrical energy is channeled from the main energy source to our homes and factories.



Transmission

The cables that carry high voltage electricity around the country have to be good conductors and strong. They are made of a steel core surrounded by aluminium, which is low density and a good conductor.



Classwork task

Working in pairs, you are to choose a type of energy source and prepare a Powerpoint Presentation with **5 slides**.

Slide 1: Present your chosen energy supply with statistics of how much of Spain's energy is generated from this source. (you will have to research this)

Slide 2: Explain how the electrical energy is transformed from the source.

Slide 3: Explain any disadvantages of your energy source.

Slide 4: Explain any advantages of your energy source.

Slide 5: Summarise the benefits and disadvantages of using your energy source.