

English translation

Do you know the different ways of producing electricity?

Nuclear power plants: Uranium atoms are split inside a **reactor** using the **fission** process. This produces **heat**, which is used to **heat water** that passes through a **steam generator**. The steam then drives a **turbine**, which is connected to a **generator** that produces an **electric current**.

Thermal power plants: **Heat** is released from the **combustion of coal, gas or, less often, fuel oil**, which generates **steam**. This drives a **turbine**, which is connected to a **generator** that produces electricity.

Biomass power plants: Heat from the **combustion of organic matter from plants and animals**, or "**biomass**", is used to produce electricity.

Hydropower plants: Energy from **falling water** in a network of pipes drives **turbines** connected to a **generator**.

Tidal power plants: A **dam** fitted with **turbines** in a bay or estuary is used to generate energy from the **ebb and flow of the tide**.

Wind turbines: They transform kinetic energy from the wind into electricity using a rotor connected to their blades.

Tidal turbines: Similar to wind turbines, tidal turbines **capture energy from currents** to produce electricity.

Solar panels: They convert energy from **sunlight** into electricity using a semi-conductor that, when light shines on it, displaces electrons and therefore produces power.