

Whether electricity is generated by water or wind

What is wind energy & how does it work?

Wind energy is renewable and harnesses the energy generated by wind through the use of wind turbines that convert it into electricity. Wind, technically, is a byproduct of differences in temperature and is generated from the uneven heating of the atmosphere, mountains, valleys, and the revolution of the planets around the sun.

How does water make electricity?

To create electricity, water is channeled through tunnels in the dam. The power of the water causes turbines to turn. The turbines make generators move. Generators are machines that produce electricity. Hydroelectric energy is made by moving water. Hydro comes from the Greek word for water.

What is hydroelectric power?

Hydroelectric power is a form of renewable energy in which electricity is produced from generators driven by turbines that convert the potential energy of moving water into mechanical energy. Hydroelectric power plants usually are located in dams that impound rivers, though tidal action is used in some coastal areas.

How is hydroelectric energy made?

Hydroelectric energy is made by moving water. Hydro comes from the Greek word for water. Hydroelectric energy has been in use for thousands of years. Ancient Romans built turbines, which are wheels turned by flowing water. Roman turbines were not used for electricity, but for grinding grains to make flour and breads.

How do generating stations produce electricity?

Generating stations, also known as power plants, produce electrical power by using different sources of energy to produce steam to turn turbines. Steam is produced by heating water using energy sources such as fossil fuels, nuclear reactions, or renewable sources such as solar or wind power.

Why is wind energy a source of value?

In addition to being a renewable energy, the production of wind electricity is a source of value: the production cost of the MWh on land is competitive (France: 70 to 80 EUR/MWh depending on the wind field), which makes it essential to contribute to an efficient and less and less carbon intensive electricity mix. Cover image.

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