

RENEWABLE ENERGY



1. Definition

Renewable energy sources mean sources that are practically inexhaustible in a human life time or that renew themselves relatively quickly. This distinguishes them from fossil energy sources that are finite or regenerate throughout millions of years. They include biofuels, geothermal energy, hydropower, ocean energy, solar and wind energy, with the sun being the most crucial energy source.



2. The most interesting companies operating in the sector



Stockholm-based startup **Tibber** has created an app that acts as an energy company and advisor for homeowners. The app works as an intelligent assistant that can buy, control, and save energy.



WEMAG AG is a regional energy supplier with a focus on the region of Mecklenburg and West Prignitz. Its sales activities focus on the supply of electricity and gas to private, commercial and branch customers.



EnergieKontor is a German company specialized in the development and management of wind farms and solar parks. EnergieKontor also develops new technologies and methods to improve efficiency and reliability of wind power facilities.



BioGasol is a combined biotechnology and engineering company in the field of renewable energy. BioGasol has developed breakthrough technologies for the sustainable production of bioethanol based on lignocellulosic biomasses. BioGasol ApS is a Danish company founded in January 2006 as a spin-out from The Technical University of Denmark, DTU.



WePower is a blockchain-based green energy financing and trading platform. It helps renewable energy producers to raise capital by issuing their own energy tokens.

3. Interesting facts



#1 **Hydropower** is the most popular and worldwide-used renewable power source. The most common method of hydropower generation involves the construction of dams on rivers and releasing water from the reservoir to drive turbines.



#2 Just one wind turbine can generate enough electricity to power **1,400** homes.

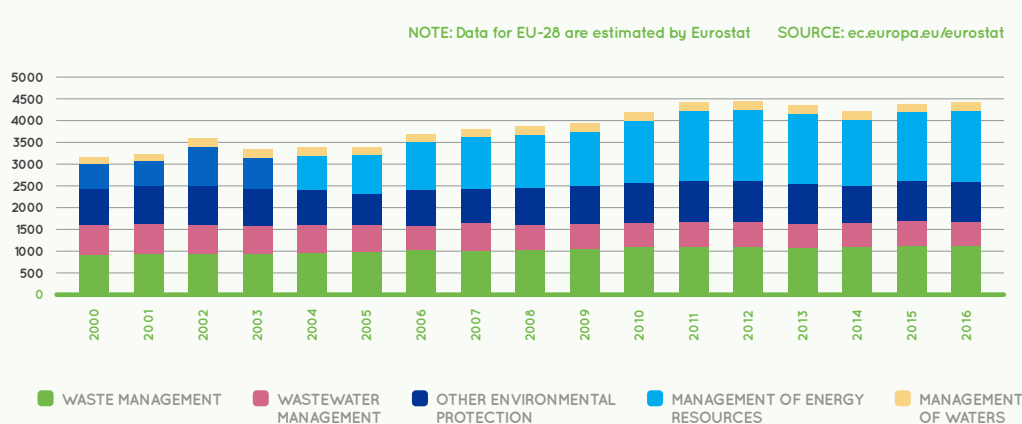


#3 Renewable energy creates **5 times more jobs** than fossil fuels.

4. How many jobs are in the area

Employment in the environmental economy

Employment by domain, EU-28, 2000-16
(THOUSAND FULL-TIME EQUIVALENTS)



Almost **one million** new full-time equivalent jobs have been created in the EU-27 between 2000 and 2017 through renewables and energy-efficiency measures.

5. Future

Renewable energy sources are projected to account for more than half of global electricity production by 2035.

According to the **WWF**, the whole world could get all the power it needs from renewable resources by 2050, ending our reliance on fossil fuels and other depleting resources – but only if the right political, financial and societal decisions are made, and quickly.

