





BAKIR Elyes DUCRUIX maxime LAMPLE Bastien MASSAOUDI Aymane WATRIN Camille

LTTA2 - Serbia





Renewable energy

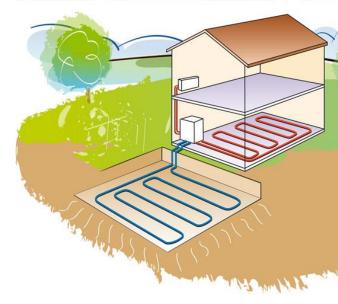
naturally occurring, inexhaustible source of energy from rain, biomass, wind, sun, and geothermal heat.



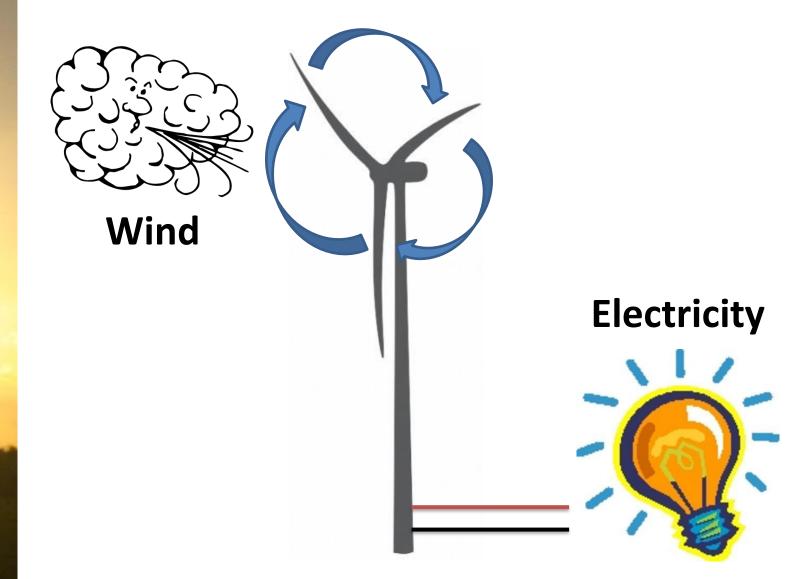




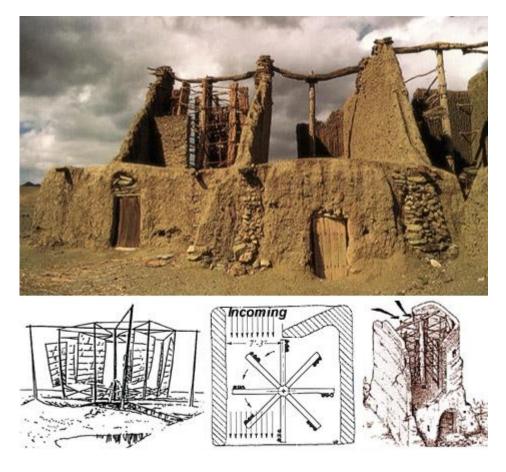








For thousands of years man has used the energy from the wind



Persia, 500 AD

Transform grain to flour





France, 1200

Water pumping







France, 1890s

Producing electricity



France, 1930s

Producing electricity

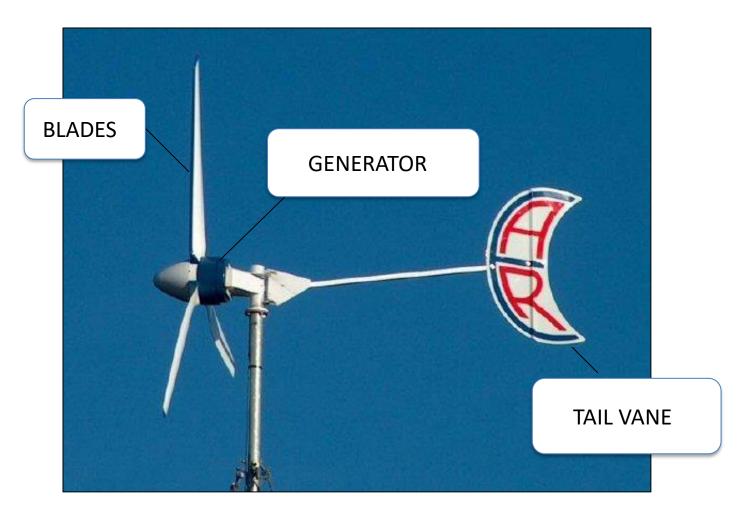


France, 1960s

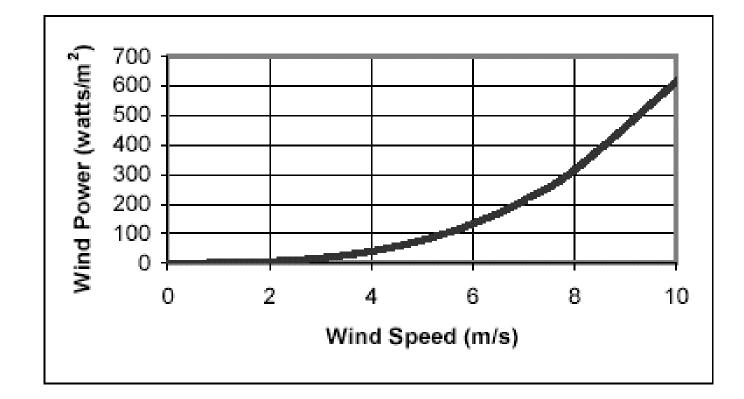
France produced 4% of its electricity with wind power in 2016



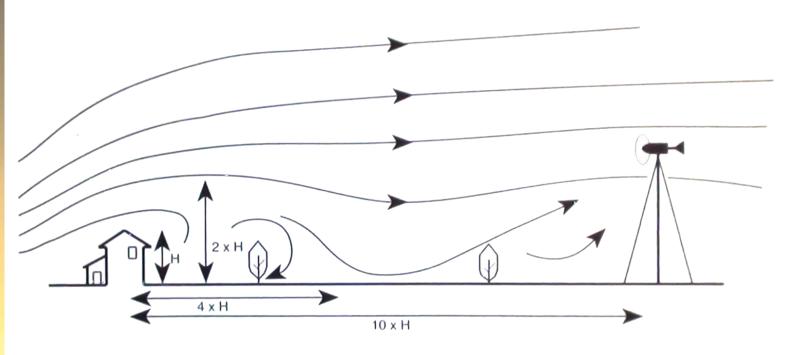
Small wind turbine



Small changes in wind speed make big changes in energy produced



Tower height



Small changes in wind speed, make big changes in the energy produced.

93% more energy in the wind at 5m/s than at 4 m/s

7,2% of mondial energy in 2022

QUIZ

- 1. What is the primary source of energy used by wind turbines to generate electricity ?
- a) Sun
- b) Wind
- c) Water
- d) Biomass

• 2. Where are wind farms typically located to maximize electricity production ?

- a) Desert areas
- b) Deep valleys
- c) Coastal areas and hills
- d) Dense forest

• 3. What is the main environmental impact of wind energy compared to fossils fuels ?

- a) Greenhouse gas emissions
- b) Air pollution
- c) Deforastation
- d) Low environmental impact

Answers

- 1: b) Wind
- 2: c) Coastal areas and hills
- 3: d) Low environmental impact