

ENERGY AND ITS TRANSFORMATIONS

(Page 73 extra activity)

Watch this video: <https://youtu.be/mcNCXIUfJIY>

- 1) What are the main components of a wind turbine?
- 2) Fill in the blanks:
 - The turning motion is relatively slow compared to what is needed for _____.
 - The gearbox steps up the _____.
- 3) What is the function of the transformer?
- 4) What is a "wind farm"?
- 5) What do we use to send the electricity from "offshore" wind turbines to the "onshore" substation?
- 6) The amount of electricity that can be generated at any moment by a wind farm depends on what three things?
- 7) At what speed do wind turbines:
 - a) Start generating electricity?
 - b) Reach optimal efficiency?