FACT SHEET

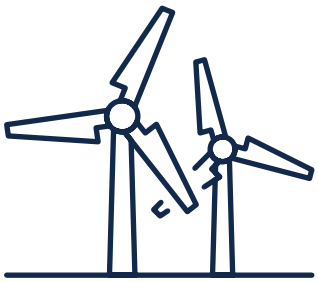
Wind energy

FORTESCUE FUTURE INDUSTRIES

Wind energy is a source of renewable energy where electricity is generated by harnessing the NATURAL POWER OF THE WIND.

What are the uses of wind energy?

Wind energy is used all over the world, primarily for electricity generation both onsite and for transporting to the grid. Wind energy is also used globally to pump water, predominantly in regional areas.



WIND TURBINES

WINDMILLS

At Fortescue Future Industries (FFI) we aim to develop wind energy resources to support the establishment of renewable green energy and green product industries around the world.

We can drive these industries, powering the global economies and creating jobs as we transition away from fossil fuels.

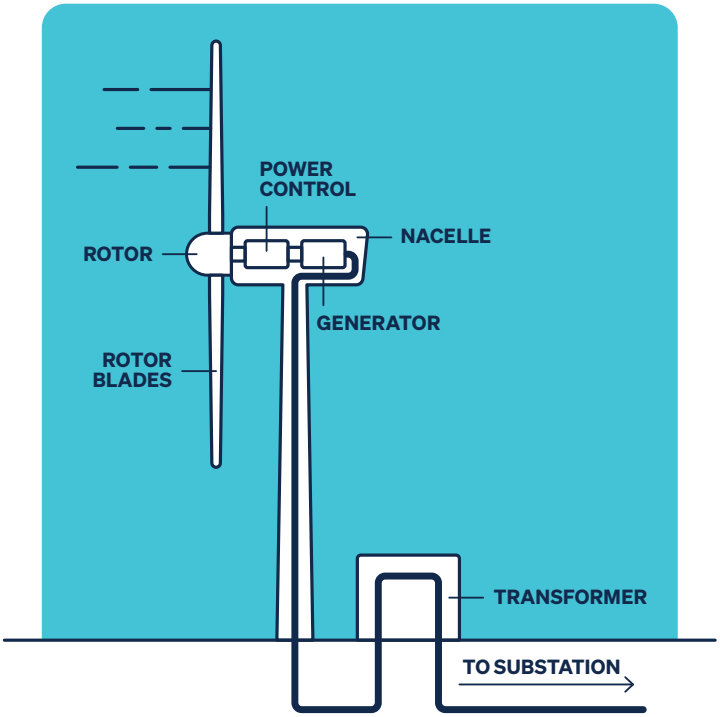
We know there will be many key markets for renewable green hydrogen in the coming decade and by building on our existing supply chain capabilities and market access, we see an exciting opportunity for us to be at the forefront of developing an export market for renewable green hydrogen.

How is wind energy used to make GREEN HYDROGEN and GREEN AMMONIA?

A wind turbine is a tower, topped by an enclosure called a nacelle and a propellorlike rotor. The nacelle houses an electrical generator, power control and other mechanical equipment, connected to the rotor blades.

Wind striking the rotors blades cause it to spin and when wind speeds are high enough, the rotational energy in the rotor is converted to electrical energy in the generator.

This electrical energy is transferred to a transformer and substation where its voltage is increased, allowing it to be sent via transmission to power the processes behind green hydrogen and green ammonia production.



FFI's wind energy infrastructure follows the principal of inherently safe design; ensuring hazards are eliminated wherever possible, reduced through substitution or controlled through engineering solutions.

Designed and manufactured to Australian and International safety standards, wind turbines are made to operate in a range of wind conditions. They can be turned on or off if wind conditions exceed their maximum capacity and they have brake systems that can hold the blades still.

Wind farms are equipped with comprehensive lightning protection systems that transfer voltages and currents safely to the ground, similar to tall buildings.

At FFI, we are taking a global leadership position in the renewable green energy and green products industry by harnessing the world's renewable energy resources, including wind energy, to produce renewable electricity, renewable green hydrogen, green ammonia and other green industrial products.

Our vision is to make renewable green hydrogen the most globally traded seaborne energy commodity in the world.

ffi.com.au