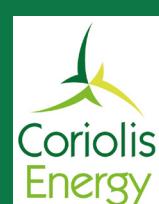


Fferm Wynt
Foel Fach
Wind Farm



ENERGY EXPLORERS

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Renewable energy

Hello!

We are Coriolis Energy and ESB, we build and run renewable energy projects that produce clean, green electricity.

We need electricity for lots of things in our homes, schools, shops and for travel. Electricity powers our lights, TVs, mobile phones, and some cars and buses.



What other things do we need electricity for?
Name as many as you can.

Renewable energy comes from natural sources such as the wind, the sun and the sea. These sources of energy will never run out.



Wales is aiming for 100% of its electricity to be generated from renewable energy sources by 2035 – that's less than 10 years away!



Blades	Sun
Car	Television
Electricity	Tower
Energy	Turbine
Green	Wind

V	T	B	I	E	X	M	F	O	W	S	Y	L	Y	W	G	S
U	E	Z	W	D	E	T	L	W	I	U	N	G	R	H	K	Q
Y	L	F	L	R	U	B	O	I	A	T	R	R	W	O	C	M
U	E	W	S	J	L	H	O	W	D	E	X	Q	E	Z	Y	D
J	V	T	O	B	E	D	F	W	N	L	R	Y	U	H	K	T
D	I	G	F	N	L	K	S	E	N	R	L	C	A	R	O	L
W	S	P	R	M	E	A	X	F	M	W	J	F	W	G	P	J
L	I	S	U	L	C	W	D	W	P	O	K	B	F	R	Y	E
H	O	L	L	R	T	T	W	E	W	V	A	W	H	K	M	U
N	N	H	I	W	R	P	W	Y	S	S	P	I	W	C	I	S
X	H	V	F	S	I	N	E	D	N	B	O	F	I	R	D	M
Q	J	W	V	U	C	N	Y	C	G	R	E	E	N	W	P	J
L	A	Q	O	N	I	K	L	K	W	X	T	W	D	L	W	E
R	D	G	W	B	T	J	B	K	I	A	T	Y	G	W	F	G
H	E	E	R	P	Y	W	O	D	R	S	N	L	W	R	J	K
S	K	U	T	E	E	T	Y	M	Y	H	I	W	N	W	Z	V
L	T	C	S	U	G	W	A	D	W	H	O	W	F	I	Y	N

How we make electricity from the wind



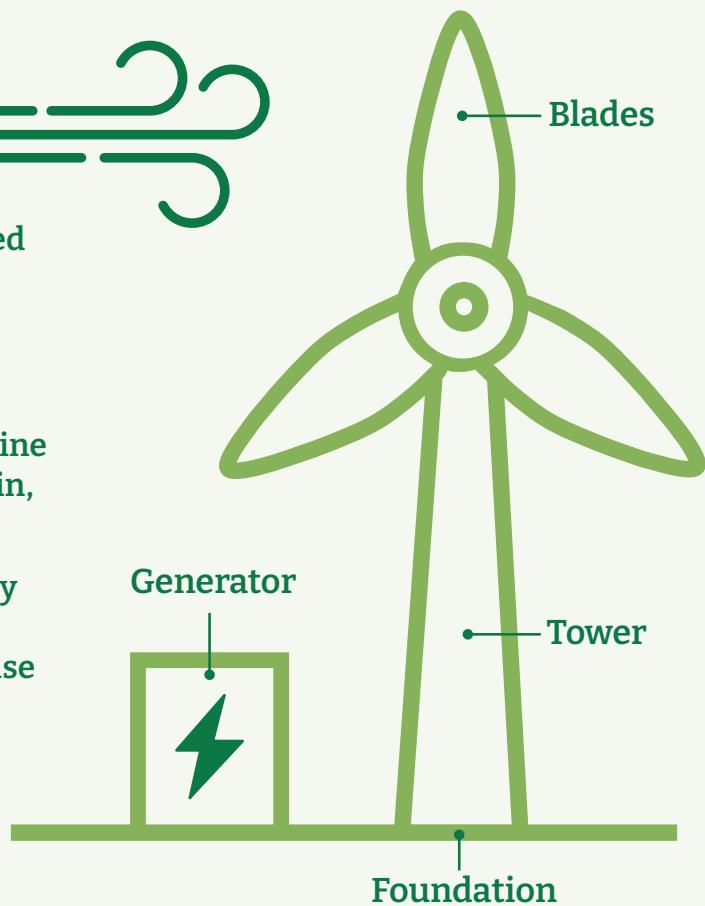
A machine called a wind turbine is used to produce electricity using the wind.

A wind turbine has a tall tower with blades on the top.

When the wind blows it turns the turbine blades, which makes the generator spin, which produces electricity.

Wind turbines have to be built in windy places. The fastest wind speeds are on higher ground, so Wales is ideal because it has lots of hills and mountains!

Wind turbine



Lots of wind turbines together is called a wind farm



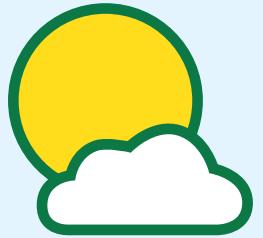
On a separate piece of paper, draw a wind farm. You might want to include wind turbines, trees and animals.

People have been using the wind for thousands of years to sail ships, to turn the blades on a windmill for grinding grain for flour, and to pump water.

Our proposed wind farm site at Foel Fach is a fantastic place to generate electricity because it is high and gets lots of wind. We are proposing 10 turbines, which would generate electricity for around 68,700 homes.

In 1887, electricity was generated using a wind turbine for the very first time.

Climate change



'Climate change' describes changes to Earth's weather and temperatures over a long time. Scientists have shown that man-made climate change is causing the planet to heat up, even in very cold places like the Arctic.

Climate change can be bad for people and wildlife because it causes storms, wildfires, flooding and droughts. Scientists say that 1 in 6 species are at risk from extinction due to climate change.

We use fossil fuels like oil and gas to make electricity, to heat our homes, to power our factories and fuel our cars. When we burn fossil fuels, more gases are released into the atmosphere that make the Earth hold on to more of the heat from the sun. This is the main reason for climate change.

We need to stop using fossil fuels and use electricity from renewable energy instead.



On a separate piece of paper, write a list of things that we could all do to help the planet.



Start your engines – join the dots and then colour in this electric car

