North Sea Link

Energy Education Centre

Answer Sheet

Renewable or Non-Renewable

Some sources of energy are renewable and some are not. Non-renewable sources are not environmentally friendly and are more difficult to replace, which means we may eventually run out of them.

Put an R for renewable or an N for non-renewable under each of the energy sources below:

Hydropower

R

Solar power

R

Nuclear power

N

Coal power

N

Wind energy

R

Oil

N

Interconnector

R

Tidal energy

R

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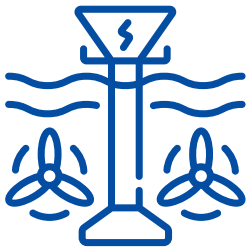
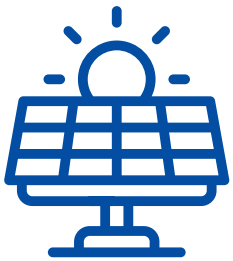
Answer Sheet



Tidal energy

Advantage:
Great if you live on an island.
No carbon dioxide released.

Disadvantage:
High set-up costs.
Can impact wildlife.



Solar power

Advantage:
Suitable for individual houses.
Can be used in remote locations.

Disadvantage:
High set-up costs.
Needs a south-facing roof to work best.

Hydropower

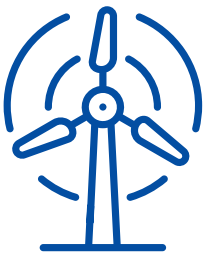
Advantage:
No pollution. Generates electricity quickly.

Disadvantage:
Large amounts of land required. Some of the energy generated is used to pump water back to the reservoir.

Interconnector

Advantage:
Allows shared use of renewable energy. Enables countries to maximise the use of their natural resources.

Disadvantage:
High set-up costs.



Wind power

Advantage:
Very few costs.

Disadvantage:
Requires wind.
Can be noisy and classed as an eyesore.

Biomass

Advantage:
Cheap and readily available.

Disadvantage:
Contributes to global warming gases in the environment.

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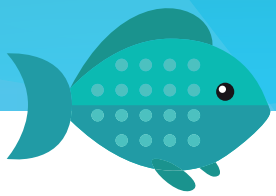

Word Search

You can go up, down, forwards, backwards or diagonally in this word search.

Why not time yourself to see how long it takes you to find all of the words?

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

NORTHSEALINK
INTERCONNECTOR
BLYTH
KVILLDAL
ELECTRICITY
TURBINE
WIND
SOLAR
TIDAL
BIOMASS
OIL
ENERGY
SUSTAINABLE
COAL
HYDROPOWER
GENERATOR
RENEWABLE
NUCLEAR

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Worksheet

Interconnector Key Facts

North Sea Link will connect the electricity systems of the UK and Norway via high voltage subsea cables.

In the boxes below, tick the correct answer.

The NSL Interconnector can supply enough electricity to power

- ○ **1.2 million** UK homes
- ○ **1.3 million** UK homes
- ● **1.4 million** UK homes

The NSL Interconnector is

- ● **720KM** long
- ○ **730KM** long
- ○ **740KM** long

The NSL Interconnector will be operational in

- ● **2021**
- ○ **2022**
- ○ **2023**

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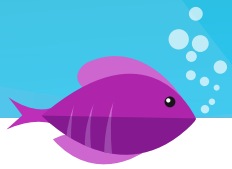
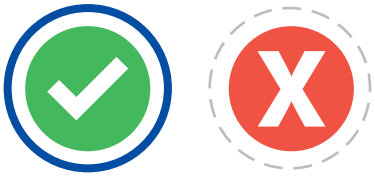
Worksheet



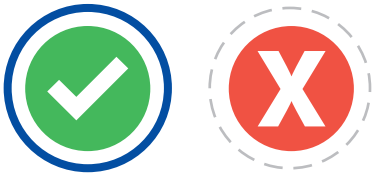
True or False

Climate change means warmer summers and wetter winters

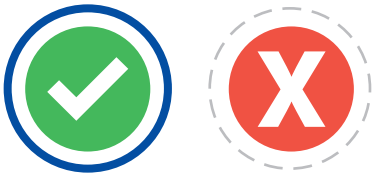


America emits the most C02 worldwide

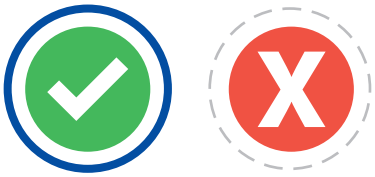
It takes 100 years for C02 in the atmosphere to disperse



Wind energy is one of the fastest growing energy sources in the world



20% of global energy is generated by hydro power



CH4 (methane) is not a greenhouse gas

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