



## THE ENERGY TRILEMMA

When making plans about how we will use energy in the future, there are three main issues we need to think about: **security**, **affordability** and **sustainability**.

**Energy security** refers to the amount of energy available where and when we want it; not just at the flick of a switch, but in the future too.

- How much do we rely on an energy source for our energy needs?
- Do we use our own energy sources or get them from another country?
- Are power stations able to give us energy when we want and need it?
- Is the energy source renewable or non-renewable (will it run out one day)?



### ESSENTIAL READING LINKS

#### SECURITY

The Main Energy Sources:

<https://ourfuture.energy/in-focus/the-main-energy-sources/>

Demanding Electricity:

<https://ourfuture.energy/in-focus/demanding-electricity/>

Surprising Uses of Oil:

<https://ourfuture.energy/bright-idea/surprising-uses-of-oil/>

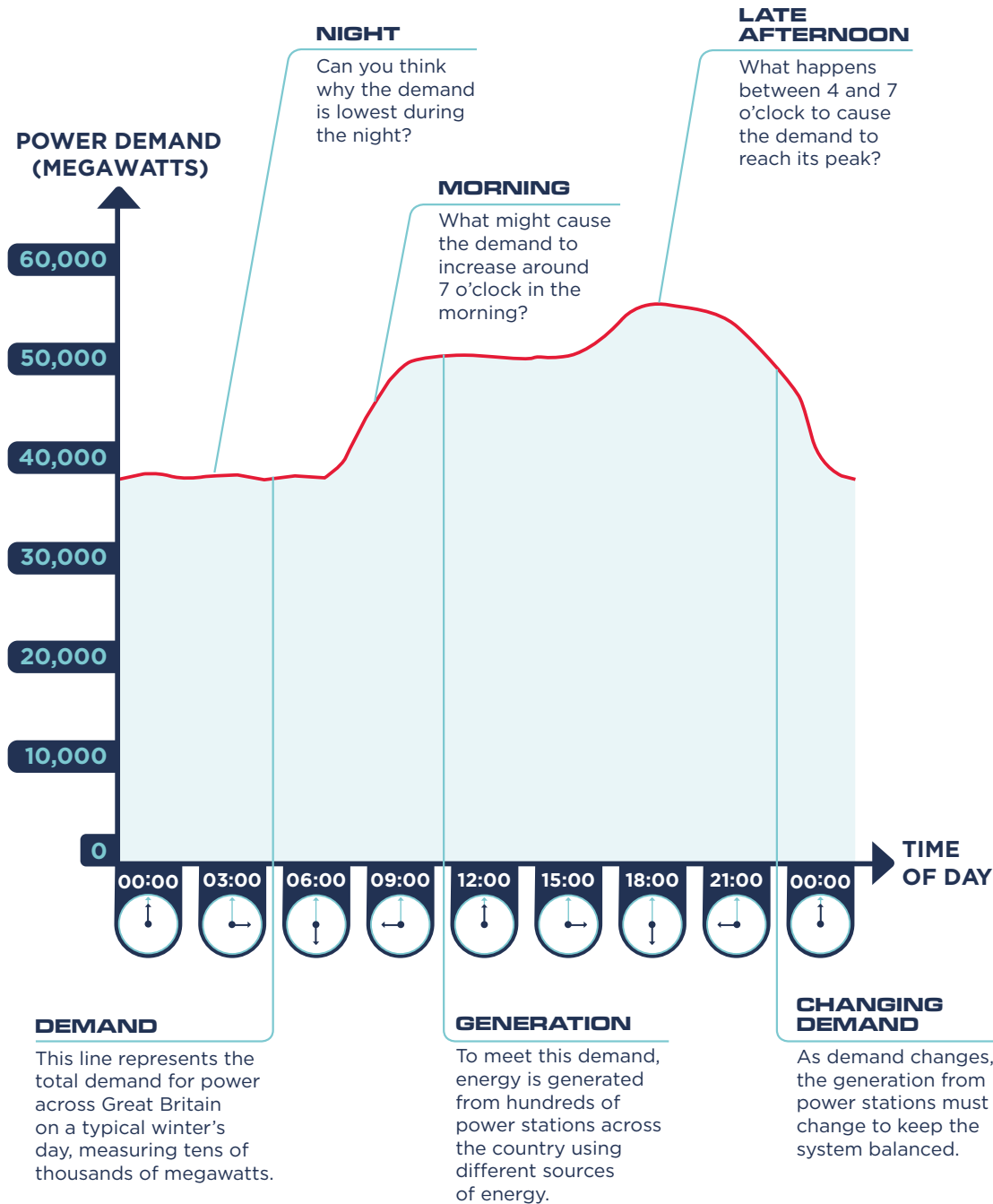
Find the main sources of energy in the word search.

Answers can be upside down, backwards and diagonal so look closely!

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

### ENERGY SOURCES:

BIOMASS	OIL
COAL	SOLAR
GAS	TIDAL
GEOTHERMAL	WAVE
HYDRO	WIND
NUCLEAR	



Can you explain the shape of the graph above?

Hint: Look at the time of day on the horizontal axis.

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