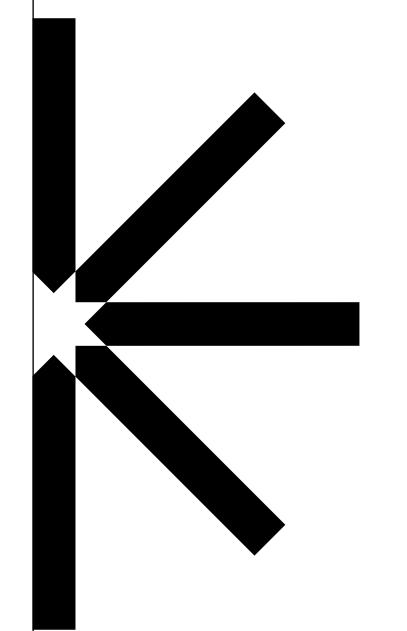


FUSION FOR ALL TEACHERS' PACK

Turning fusion from theory into practice.





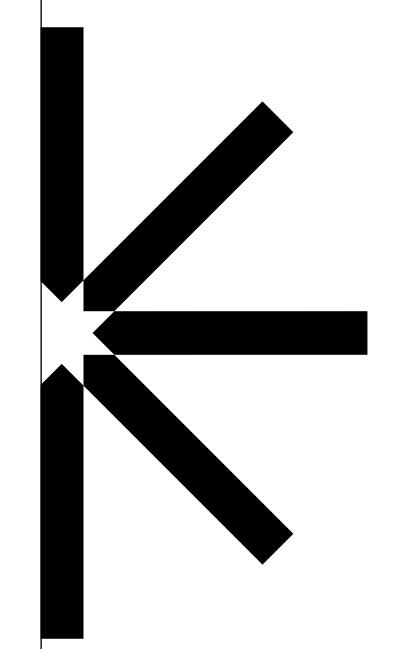
FUSION FOR ALL Activity Instructions

You will also need:

* The "What does a FUSIONeer do?" cards visible to students (printed copies or on laptop/tablet screens in each pair or group)

You may also like:

* The ENERGY OPTIONS cards as printed copies (which have additional information to the energy options slides in this slideshow)



Question 1

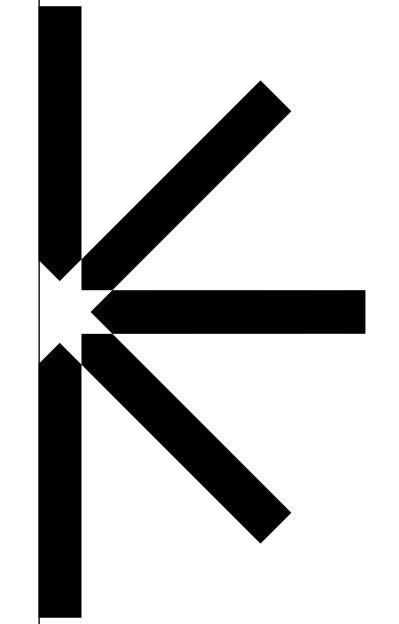
What would you do with an unlimited energy source?

You will also need:

* The "What does a FUSIONeer do?" cards visible to students (printed copies or on laptop/tablet screens in each pair or group)

You may also like:

* The ENERGY OPTIONS cards as printed copies (which have additional information to the energy options slides in this slideshow)



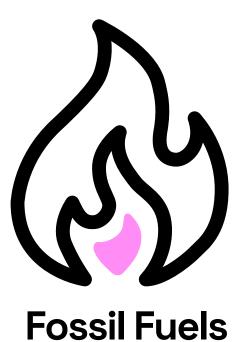
Question 2

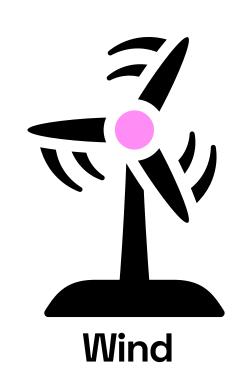
Let's get real.

Do you think there's a realistic way to power your dreams?

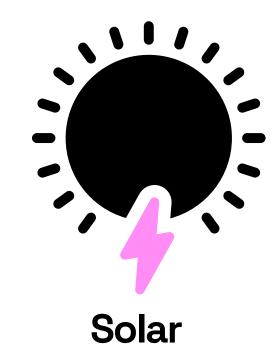
Let's take a look at some real-life energy options...

Energy Options

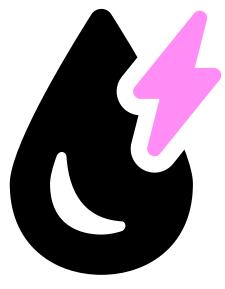








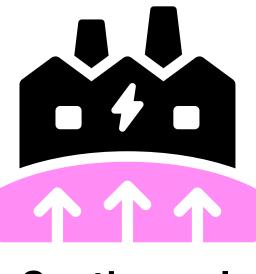
There are many technologies that can be used a source of energy to power our lives. Which would you choose?



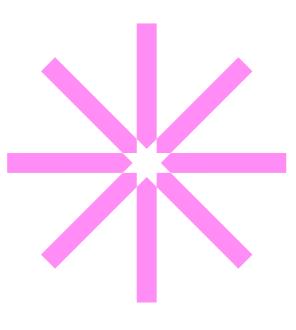




Nuclear



Geothermal

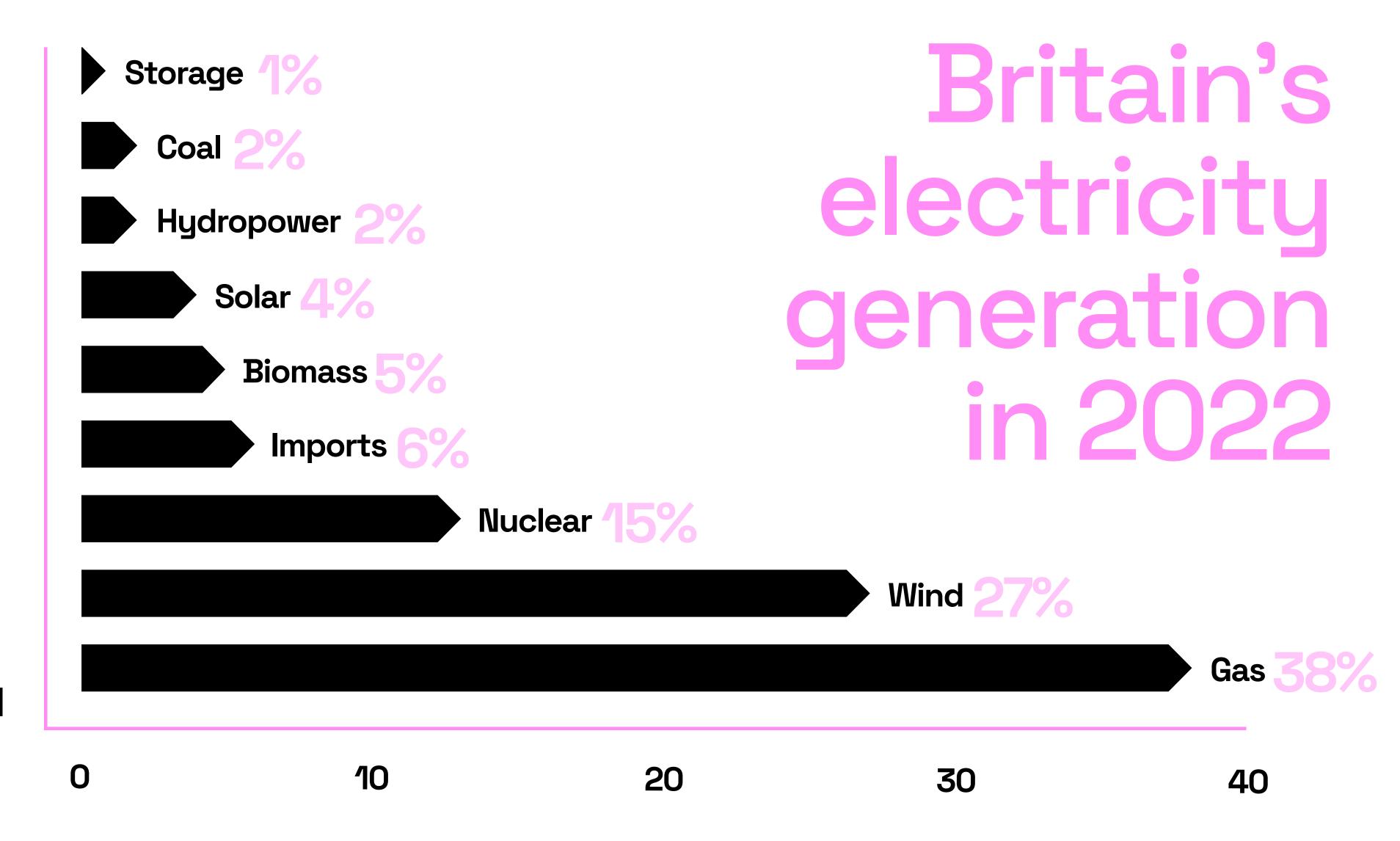


Fusion

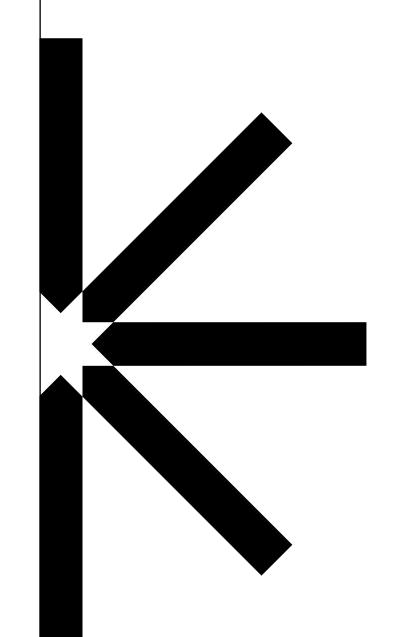
Are all these sources renewable?

Do they release greenhouse gases (GHG) like CO₂?

Do they produce other harmful waste?



Fossil Fuels	GHG emissions: Renewable: Harmful waste:	High to very high Non-renewable Particulates*, oil spills	Hydropower	GHG emissions: Renewable: Harmful waste:	Very low Renewable None
	GHG emissions:	Very low		GHG emissions:	Very low
	Renewable:	Renewable		Renewable:	Non-renewable
Wind	Harmful waste:	None	Nuclear	Harmful waste:	Needs careful disposal
	GHG emissions:	Medium to high		GHG emissions:	Low
	Renewable:	Renewable		Renewable:	Renewable
Biomass	Harmful waste:	Particulates	Geothermal	Harmful waste:	Very little
	GHG emissions:	Low		GHG emissions:	Very low
	Renewable:	Renewable		Renewable:	Renewable
Solar	Harmful waste:	None	Fusion	Harmful waste:	Very little



MAIN ACTIVITY Your part in the energy sector.

What skills and qualities do you have?

Are 40u...

initiative finding

fearless

determined optimistic detail-oriented observant

dedicated

approachable

lateral-thinking

enthusiastic

inventive

collaborative

creative adaptable

practical

friendly

cooperative

communicative

improving

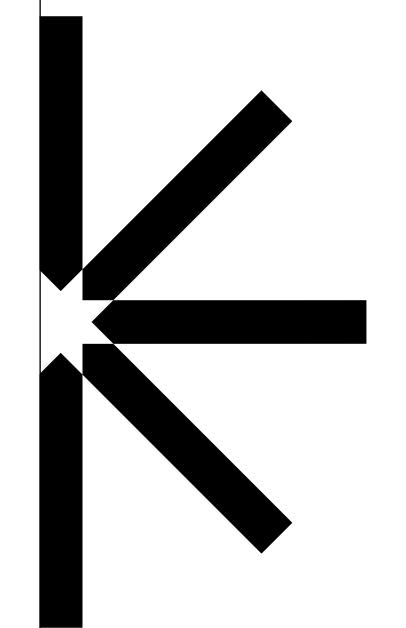
resilient

specialist

problem-solving

people-focused





MAIN ACTIVITY Your part in the energy sector.

* Read through the cards entitled "What does a FUSIONeer do?".

These people all have jobs linked to fusion – a promising energy source for the future.

* Choose one profile in particular.

Try and find someone whose skills and personal qualities sound a bit like you.

What skills do you have in common with the profile you picked?