

Physics Revision: Energy Resources

Key Knowledge

Definitions:
 Energy resources

Renewable

Non-renewable

Name the renewable energy resources:

Name the non-renewable energy resources:

Which resources are not reliable?

Which resources contribute to global climate change through releasing CO₂?

Which resources are used for
 - transport?
 - heating?
 - electricity generation?

Mastery Matrix Points

Describe the main energy resources on Earth
Define renewable and non-renewable resources
Describe how energy resources are used
Compare and contrast energy resources in terms of reliability, cost, political, social and environmental factors
Explain patterns and trends in the use of energy resources

Understanding and Explaining

1. Explain how these energy resources can be used to produce electricity (e.g. turns turbine or burnt) and give the advantages and disadvantages.

Resource	How is this used to make electricity?	Advantages	Disadvantages
fossil fuels (coal, oil and gas)			
nuclear fuel			
Biofuel			
Wind			
The tides			
hydro-electricity			
Geothermal			
the Sun			
water waves			

2. Explain how the use of energy resources has changed over time.