NorthSeaLink Energy Education Centre

GCSE One Mark Questions



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North Sea Link is co-financed by the European Union's Connecting Europe Facility.



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GCSE Higher Mark Questions

Q23.

Coal is a non-renewable energy resource. Identify two other non-renewable energy resources. [2 marks] (Any two) Nuclear, Oil, Natural Gas.



Q24.

The National Grid ensures that fossil fuel power stations in the UK only produce about 33% of the total electricity they could produce when operating at a maximum output. **Suggest two reasons why. [2 marks]**

•conserves fuel reserves

(Any two)

•spare capacity to compensate for unreliable renewable resources

•provides spare capacity in case of power station emergency shutdown

•to not make unnecessary environmental impact (pollution etc)

Give two points. You should also show that you have given reasons to explain why.



Q25.

The UK produces most of its electricity from fossil fuels.

Many people in the UK leave their televisions in 'stand by' mode when not in use, instead of switching them off. It is better for the environment if people switch off their televisions, instead of leaving them in 'stand by' mode.

Explain why. [3 marks]

TVs in standby use electricity [1]. Generating electricity (from fossil fuels) produces CO2 [1]. CO2

contributes to global warming [1].

Breaking the answer down into stages can help make sure that enough scientific points have been

included.



