

Get Energised Trail

For upper primary pupils

Visit *Energise* on Level 5 of the Science and Technology galleries. This trail will help you explore the gallery and discover more about electricity in Scotland.

Name: _____

Can you complete the table?

| Type | Renewable or Non-renewable source? | Source of the energy used | Related item in the Energise gallery | Advantage | Disadvantage |
|--------------------|------------------------------------|--------------------------------|--------------------------------------|--|--|
| 1. Solar | Renewable | The Sun | Solar panel | Solar panels are generally found on the roofs of existing buildings and this reduces the impact on the local environment | Houses need batteries to store electricity generated during the day so that the house can be powered once it is dark outside |
| 2. Wind | Renewable | Wind | Wind turbine blade | It doesn't cost much to maintain and repair wind turbines once they are installed | The amount of electricity available can depend on the season or the weather. For example, it is windier in autumn and winter |
| 3. Oil | Non-renewable | Oil removed from the North Sea | Pieces from an oil rig | Once extracted from locations such as the North Sea, there is a large network to distribute it, so oil is easily available | When used, gases are released that have a negative impact on the earth's atmosphere |

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For each of the three items, draw an object from the Energise gallery that links to the type of source of electricity.

There is an example of solar panels.

1. Solar

There is the tip of a wind turbine blade.

2. Wind

There are examples of equipment from oil rigs.

3. Oil