

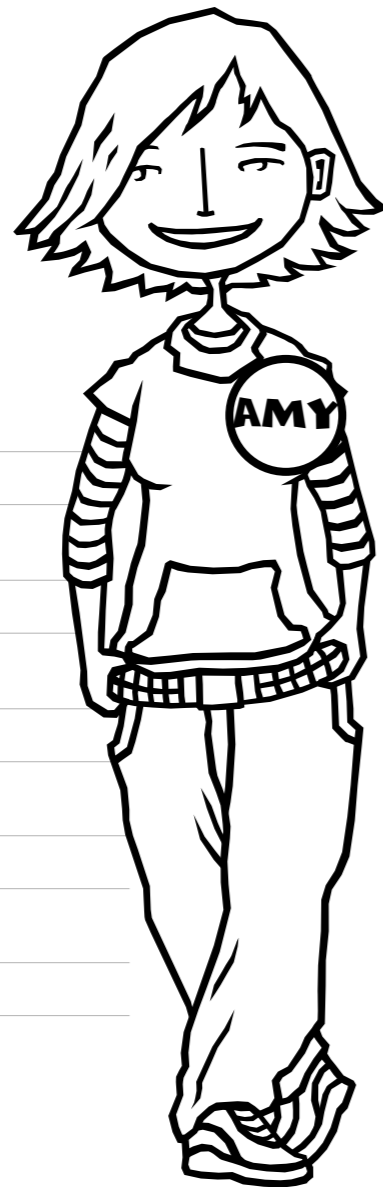
GREEN STUFF

KNOWLEDGE AND UNDERSTANDING:

1. Name a fossil fuel.
2. Who discovered electricity?
3. Name an electrical appliance in the classroom.
4. Name a renewable energy source mentioned in Green Stuff.
5. What could happen to some animals if we waste more energy?

TRUE OR FALSE:

6. In the future, we will have to use more renewable energy sources.
7. An electric shock can kill you.
8. If gas escapes, it can cause an explosion.
9. Coal is a renewable energy source.



GREEN STUFF

PROBLEM SOLVING:

1. A tumble-dryer uses a lot of electricity, what could you do instead of using the tumble-dryer every time you need to dry clothes?
2. Name three ways that you can save energy at home
3. Amy's mum opened the window when Amy complained that she was too hot. What should she have done first.?
4. Why should Amy and Peter walk to school where possible, instead of going by car?
5. What should you do if you can smell gas?



Further help and information can be found on our website: www.sse.com
SSE, Inveralmond House, 200 Dunkeld Road, Perth PH1 3AQ



Written and produced by SSE Energy
DESIGNED BY THINKTASTIC, EDINBURGH

A TEACHERS GUIDE

GREEN STUFF



ABOUT

GREEN STUFF

Thank you for choosing GREENSTUFF to supplement your lesson plans. GREENSTUFF has been designed for children between the ages of 9 and 11 years old and aims to educate pupils about a range of energy facts and issues. The pupils' magazines are designed to be fun, informative and thought-provoking, covering topics such as; the origins of fossil fuels, renewable energy, energy efficiency, safety and climate change. We have worked closely with educational authorities and hope that you will find GREENSTUFF to be highly relevant to your syllabus. One of the key aims of the supplement is for children to become more aware of the impact of their own actions and the difference that they can make to their environment, home and community. We also hope that its young readers will take these messages home and pass this knowledge to their families.

We hope that you and your pupils will find GREEN STUFF to be highly educational and enjoyable.

To order more copies of GREEN STUFF, please phone: **01202 480467**

Alternatively, you could write to: Scottish and Southern Energy plc, The Old Power Station, Bargates, Christchurch, Dorset BH23 1QE

Please specify how many magazines and teachers guides you require.

GREEN STUFF

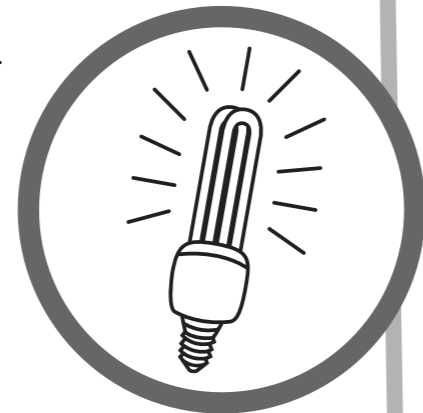
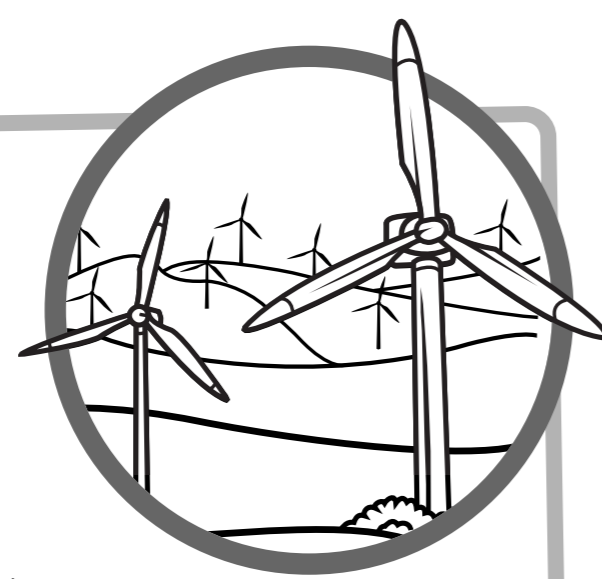
PAGE TO PAGE

P1-THE HISTORY OF ELECTRICITY

A brief history of the discovery and early use of electricity. This page contains a warning about the potential danger of electricity. You may wish to elaborate on this or simply draw the pupils' attention to this point. Pupils are then asked to identify electrical appliances in the classroom. This may be done in teams, as a writing exercise, or as a class discussion.

P2-SPOT THE DANGERS

A picture of a home scene with 10 dangers for pupils to circle. This exercise is designed to draw on the pupils' existing knowledge. They are then asked to say why these areas are dangerous and what they can do to prevent risks at home. This exercise may also be carried out as above. Answers can be found on page 4 of this guide.



P3-FOSSIL FUELS

A brief description of fossil fuels and their origins, followed by descriptions of coal, oil and natural gas and their uses. Pupils are then asked to name every day uses for each.

P4-RENEWABLE ENERGY

This is designed to be a reading exercise. Description of renewable energy as a concept and the importance of finding renewable energy solutions. Descriptions of wind power, solar power and hydro power. A key point on this page as well as this identification is the concept that non-renewable energy will run out in the future.

P5 AND 6-AMY'S STORY

A comic story of Amy's daily routine. Amy is not energy efficient and is seen throughout to be wasting energy. Pupils are then asked to write a letter to Amy's parents, giving them energy saving information and describing ways in which they are currently wasting energy.

P7 AND 8-PETER'S STORY

A comic story about Peter, who is energy efficient. Peter's grandma features in the story and you may wish to draw attention to the fact that it is especially important that older people keep warm. You may also wish to take this opportunity to mention other social issues related to energy, such as fuel poverty. It is important that pupils are aware of the message that help is available (details at the back of the magazine) for those struggling to pay their energy bills. Pupils are then asked to write a newspaper article about the ways in which Peter's family are saving energy.

P9-MATCH THE SENTENCES

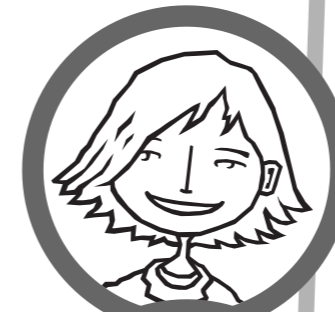
In this exercise, pupils are asked to match the sentences/activities to the pictures of Amy and Peter. Answers, as with all exercises, are at the back of this guide.

P8-HOW MUCH DO YOU REMEMBER?

This is a colouring exercise that is designed to reinforce the categorisation of renewable and non-renewable energy sources.

BACK PAGE-FURTHER HELP AND INFORMATION

This page provides pupils with lists of other points of contact and is designed to send out the message to pupils that help is available for those who want to become more energy efficient and also that, if the pupils are allowed to take Green Stuff home, their families will have access to these phone numbers.



ANSWERS

KNOWLEDGE AND UNDERSTANDING:

1. Coal, oil or gas/natural gas
2. Michael Faraday
3. Various: i.e. Electric lights etc.
4. Wind, solar or hydro/water.
5. They could completely disappear/become extinct.
6. True
7. True
8. True
9. False

PROBLEM SOLVING

1. Hang them inside in a well ventilated room or outside.
2. Various, i.e. not leaving the TV on stand-by, turning off the lights when you leave the room, using energy efficient light bulbs etc.
3. Turned down the heating.
4. One of the following: It is better for the environment, to save money or to save energy.
5. Any of the following: Tell an adult, tell an adult to open the windows or tell an adult to phone the emergency number.

SPOT THE DANGERS

Living Room:

The iron is balanced on the edge of the ironing board.
Clothes are hanging next to the fire.
The ironing board is up against the closed door.

Kitchen:

The curtain is next to the hob.
The oven door is open.

Bedroom:

The cables are running under the carpet.
The light fitting (or faceplate) is hanging off the wall.

The plug socket is overloaded.

Bathroom:

The hairdryer is in the bathroom and plugged in.

THE GREEN STUFF QUIZ

