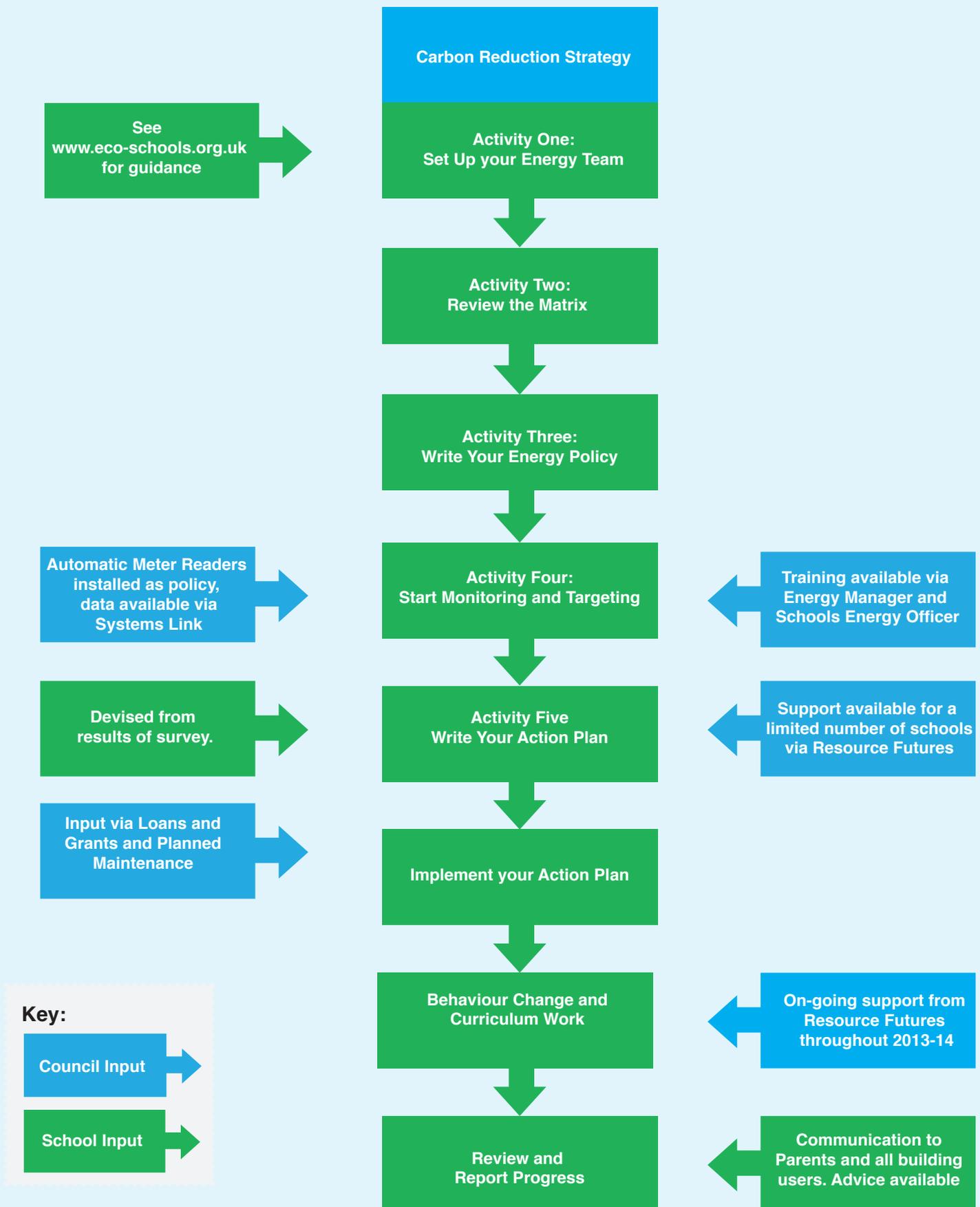
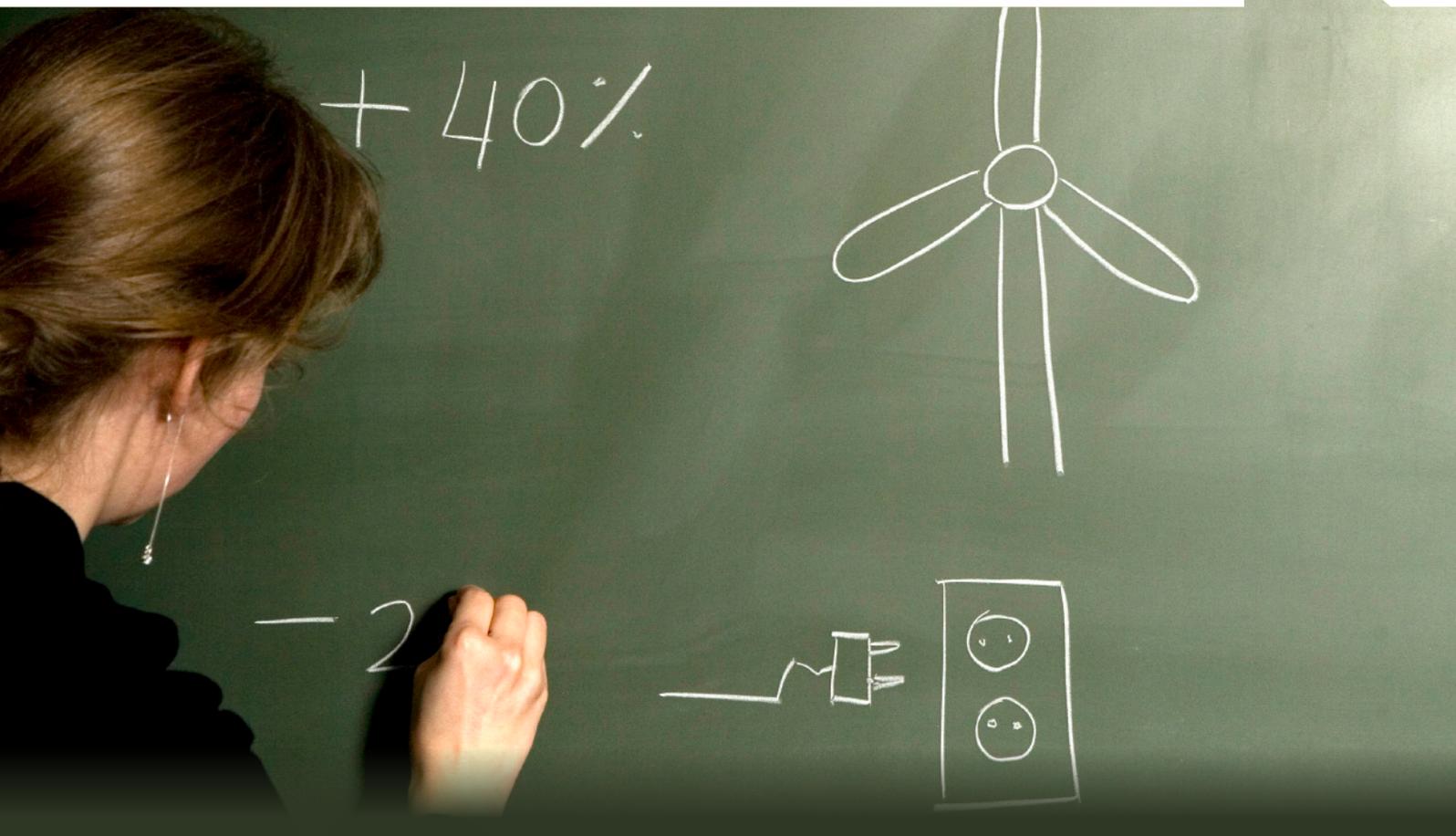


Energy Management Process





Communication, Behaviour Change and tying it in with the Curriculum

An effective energy management system needs to be communicated to all parties regularly.

This should include:

- ➔ teachers
- ➔ facilities staff
- ➔ kitchen staff
- ➔ pupils
- ➔ parents
- ➔ cleaners
- ➔ any groups who hire or use the buildings outside of school hours

Engaging all your building users is absolutely essential, and at the same time you should make it clear that there is Senior Management Team commitment to following the Action Plan.

Visual, high level support gives a clear message to your school community. Everyone must know your objective and be in agreement. If you use contractors for preparing food on site or cleaning the school, make sure energy efficiency behaviour and equipment is written into their contract.

This part of the process can really capture imaginations. Regular slots in staff meetings, assemblies, a dedicated notice board or section of the school newsletter and permanent agenda item for Governors meetings can be a structured way to report progress and spread the word. To save time, use existing communication streams.

Is your eco team planning to take part in a high profile energy efficiency campaign involving the whole school?

These campaigns can help communicate and engage staff and pupils. Examples of campaigns you may wish to join are:

- ➔ Eco Schools and the POD's switch off fortnight in November – (<http://www.jointhepod.org/campaigns/switch-off-fortnight/>)
- ➔ Climate Week in March (<http://www.climateweek.com/>)
- ➔ World Environment Day in June (<http://www.unep.org/wed/>).

You will also need to revisit energy issues on a regular basis to ensure that changes made are sustained over time.

Activities for Your Eco Team

- ➔ Display AMR data in a pupil friendly format e.g., on the Eco-Schools noticeboard.
- ➔ Conduct assemblies to share your plans and motivate pupils and teachers to adopt energy efficient behaviours. Set a target that everybody can work towards together (e.g., a 10% reduction in electricity use / a 50% reduction in lights left on in empty rooms.)
- ➔ Consider who else needs to be involved and how best to communicate with them e.g., cleaners, leaders of breakfast / after-school clubs, sports coaches, mid-day meal supervisors, office staff.
- ➔ Design posters and signs to stick around the school.
- ➔ Consider other ways of spreading the message e.g., composing a rap / making videos; using existing communications systems such as school newsletters.

Reporting and Reviewing

The most important part of communication is to make sure you report back to your school users on your and their progress. It is motivating to know that actions are making a difference.

Ensure that reasons are given for any progress or no progress and report back along with new information and ways to reduce.

Re-inforce messages as to why this is important, and how much everyone is doing in your school and other schools.

Ensure you review your action plan annually as your pupils leave and new pupils join. Ensure you review the targets set in the action plan and re-assess latest energy data.



Curriculum integration

While many of the tasks above can be carried out by the Eco Committee, there are many advantages of delegating them to classes of pupils as part of their curriculum work. As well as involving more pupils and teachers in raising awareness of energy issues, curriculum integration is likely to lead to more long-lasting change, as activities are revisited year after year. There are excellent opportunities for learning about energy issues through science, geography and PSHE/citizenship. The real life energy monitoring data is ideal for use in maths and ICT.

Further Resources

The Pod:

EDF Energy's programme for greener schools, which is closely linked with Eco-Schools. A wide range of downloadable resources and campaign packs to support energy work for primary and secondary pupils, including: Goodbye Standby, Switch On To Switching Off, The Heat is On, The Big School Warm Up, The Energy Mix and The Big Energy Show. They also run 'Switch Off Fortnight' each year in November.
www.jointhepod.org

PowerDown:

PowerDown is an award-winning multimedia resource produced by Action Aid, focusing on climate change and how it is already affecting young people around the world. The free downloadable pack aims to support teaching in geography, citizenship and science, and includes a video 'Be Part of the Solution' which is useful for introducing KS2+ pupils to the causes, impacts and solutions to climate change.
www.jointhepod.org

The science museum:

www.sciencemuseum.org.uk
Simple animations and games including:
How coal was formed: www.sciencemuseum.org.uk/energy/site/EIzInfoGr4.asp
How oil and gas were formed:
www.sciencemuseum.org.uk/energy/site/EIzInfoGr12.asp

Defra climate change film:

A two minute film designed to illustrate why climate change is happening, what it will mean and also to inspire people to be part of the solution.
www.youtube.com/watch?v=VsTGsjboO60

Green TV:

A wide range of 'green' videos on a variety of themes including energy and climate change, produced by organisations such as WWF, Friends of the Earth, Oxfam:
<http://green.tv/>

The Carbon Dioxide Game:

A fun, active game for helping KS2 and lower KS3 pupils visualize how human activities enhance the natural greenhouse effect.

Operation Climate Control:

www.operationclimatecontrol.co.uk/content
An online game for Key Stage 4 students learning about climate change for their GCSEs. The game concentrates on the impacts of climate change, and what can be done about it.
www.greenteacher.com/articles/Carbon%20Dioxide%20Game.pdf

Also:

Centre for Alternative Technology – Order Workshop activity booklets or book a visit to the Centre for Alternative Technology. Relevant to Science, Technology and Geography, with particular regard for energy (Suitable for KS1 to sixth form)

Tesco Greener Living - Recycling activities for children to do at home with an adult but can be applied to classroom activities (Suitable for KS1- 3)

Generation Green - Education site from British Gas with its own award system which can lead to prizes for the school. Resources cover a wide range of sustainability issues, with particular emphasis on saving energy.

The Carbon Detectives - This site provides an online carbon footprint calculator for schools suitable for KS2 & KS3.

Think Energy - Online resources suitable for KS2 to sixth form

Teach Climate Change - A tool allowing teachers to select the most appropriate resource for their needs by key stage (KS1 to KS4), subject and climate change category; at present the site contains 359 teaching resources.

