

1. Websites with further resources

<http://2050-calculator-tool.decc.gov.uk/> – This Excel-based 2050 Calculator allows you to explore your pathway in greater depth than the My2050 game.

<http://carboncalculator.direct.gov.uk/index.html> – Calculate your carbon footprint and get hints on reducing your energy bill.

www.cat.org.uk – the Centre for Alternative Technology offers solutions for sustainable living in the UK.

www.decc.gov.uk – the Department of Energy and Climate Change was created in October 2008 to bring together energy policy and climate change mitigation policy. DECC exists to take the lead in tackling these challenges, and reflects the fact that climate change and energy policies are inextricably linked – two thirds of our emissions come from the energy we use. Decisions in one field cannot be made without considering the impacts in the other.

www.energysavingtrust.org.uk – a non-profit organisation set up to address the effects of climate change by encouraging individuals and businesses to use energy effectively.

www.foe.co.uk – an international network of grassroots environmental groups seeking to lobby governments.

www.globaldimension.org.uk – a guide to books, films, posters and web resources which support global, intercultural and environmental understanding for all age groups and subjects. From climate change to poverty, water to fair trade, you can find a huge range of teaching resources and background material.

www.greenpeace.org.uk – UK branch of the international environmental activist network.

www.iied.org – an independent, non-profit organization promoting sustainable patterns of world development through collaborative research, policy studies and networking.

www.ipcc.ch – the Intergovernmental Panel on Climate Change was been established by the United Nations to provide rigorous and balanced scientific information about changes in the world's climate. Its site features detailed reports, diagrams and resources including a comprehensive report on climate change conducted in 2007.

www.metoffice.gov.uk – this site, which is partially Government funded, contains detailed weather and climate change analysis.

www.think-global.org.uk – an education charity that promotes global learning.

www.ukcip.org.uk – a Government funded site looking at the potential environmental and economic impacts of climate change in the UK.

2. Optional extra activities for the whole school

Activities included in this section are ideas to help extend the learning from this lesson to your wider school community.

Poster competition

Students can create posters to raise awareness of the 2050 targets and put them around school. This could be run as a poster competition within a year group, or as a starter activity that leads to a school assembly.

School Assembly

Ask students to prepare a short assembly which tells other students about the 2050 target and invites them to think about how one can help the UK to meet it. You may want to consider getting an expert in from a relevant local organisation to support the students.

Work with your local primary school

Older students can create a short activity to be used in your feeder primary schools. The aim would be to get students to explain what they have learned to younger students and get them involved in the debate.

School debate

Students can organise a series of debates (during a drop down day, for example) to explore the issue of climate change and what the UK should look like in 2050. You can use the role play cards *2a: Supply and demand role play cards* to ensure that teams approach the issue from different perspectives.

Creating a film

If your school has a media lab, you can encourage students to create a film that can be shown at assembly about the impact the 2050 target will have on their lives and the life of their community. This could be a great community project that your school could use to bring it parents and wider members of the local community.

Science fair

Students can be challenged to create their own renewable source of energy and all the entries can be part of a science fair that showcases ideas for creating a smaller carbon footprint either by tackling issues of supply (i.e. designing renewable energies) or issues of demand (i.e. imaging solutions to carbon heavy activities).

Maths day

Students can be asked to look at different aspects of the 2050 Calculator (listed on the DECC websites page). Teachers will be able to set a range of numerical challenges for students about the figures.