Fuels and the global environment **Overview**

Introduction
This topic provides many opportunities for independent research and for the application of Ideas about Science, so it could well be extended beyond the minimum of eight or nine hours needed to cover the main points.

Where it fits
Global warming and Climate change are topics which link together the earlier topics on Using Fuels and Electricity Supply with Radiation. They provide opportunities to use almost all the Ideas about Science.

Available resources on the climate*prediction*.net site

- Resources and ideas linked to the film *The Day after Tomorrow*:
  http://www.climateprediction.net/schools/DayAfterTomorrow_main.php
  http://www.climateprediction.net/schools/docs/DayAfterTomorrow_lessonplan.rtf

- Powerpoint slideshow with questions on 'Why is carbon dioxide so important?'
  http://www.climateprediction.net/schools/docs/correlation_causation.pdf
  http://www.climateprediction.net/schools/docs/correlation_causation_teachersnotes.pdf

- An introduction to modelling the Earth's energy balance, with a simple Excel model:
  http://www.climateprediction.net/schools/docs/climatemodel_instructions.pdf
  http://www.climateprediction.net/schools/docs/climate_model_worksheet.xls
  http://www.climateprediction.net/schools/docs/climate_model_paper.pdf
  http://www.climateprediction.net/schools/docs/climate_model_teachersnotes.pdf
- How to join the climate*prediction*.net research project:
  http://www.climateprediction.net/schools/schools_join.php

- An analysis of recent results from climate*prediction*.net:
  http://www.climateprediction.net/schools/docs/SPU_cpdn_results.pdf

- The results of modelling different economic and social scenarios and their impact on carbon dioxide emissions and climate:
  http://www.climateprediction.net/schools/emissions_development.php

- A role-play or debate on the action to be taken to develop a sustainable energy policy: http://www.climateprediction.net/schools/docs/energy_summit.pdf