Green STEM Project:
Energy Generation and Environmental Effects

Type	Lesson plans and resources with links into Out of School/Science club activities
Purpose	To provide students with a thorough understanding of the issues relating to generating electricity, and how different methods affect the environment.
Description	• 6 activities that investigate the pros and cons of different methods of power generation. All lesson plans, resources, power points and worksheets will be provided.
Cross-Curricular links:	• Literacy – letter writing, designing posters. • Numeracy – data handling. • ICT – recording data. • Geography – water cycle, environmental affects • D&T – designing a model power station. • PSHE – sustainable development.
Keystage	• KS3 7I – Energy resources • KS 4 – P1a – 4 – Generating electricity • KS2/KS3 transition activity
Breakdown of hours[1]	1. Conventional fossil fuelled power stations and nuclear power. 2. Heating and cooling the Earth 3. Melting ice and sea level change 4. Wind power 5. Water power 6. Solar power and geothermal
Links to other materials	• QCA KS3 POS. • QCA KS4 POS.

If you would like more information regarding this project, please contact Klaus Selke on 01482 372677 or klaus@heta.co.uk.

[1] Guideline only, can be varied within the total time