

Your climate your life -Teachers notes

Tomorrow's Energy

Ready Renewables

Learning objectives:

- To review the uses of energy and the need for reliable energy supplies
- To explore renewable and non-renewable energy sources
- To develop understanding of sustainable development

	Activity	Learning	Resources
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<p>Starter</p>	<p>Energy sources</p> <p>What are the alternative sources of energy?</p>	<p>These images can be enlarged individually for discussion on an interactive whiteboard. The descriptions for the images are:</p> <ol style="list-style-type: none"> 1. Solar Photo Voltaic cells on a roof at the Eden Project in Cornwall, England. They produce around 19Kw of electricity. 2. Wind farm at Carland Cross, 400Kw wind turbines 3. Claerwen dam, Elen valley, Wales 4. Sizewell B, Nuclear power station, Suffolk 5. A Mercedes car with biodiesel in Daimler Chrysler factory in Pune, India 6. Artist's impression of commercial tidal energy system from Marine turbines. It will commence during August 2007 in Northern Ireland's Strangford Lough. At 1.2MW capacity, SeaGen will be the world's largest ever tidal current device and will generate clean and sustainable electricity for approximately 1000 homes. <p>http://www.marineturbines.com</p>	<p>Slide show of images</p>
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<p>Main Activity</p>	<p>Pros and Cons</p> <p>Analyse the different types of energy</p>	<p>Analyse the different types of energy The energy sources each have a short report which can be downloaded and printed out to be done in pairs or groups. Further research can be undertaken with the web links and current news stories can also be included.</p> <p>See http://www.geographyinthenews.rgs.org/</p> <p>Once the advantages and disadvantages have been analysed, groups can feedback to the rest of the class and be prepared to answer questions. They will also need to take notes for the plenary.</p>	<p>Download energy reports</p> <p>Websites indicated</p>
<p>Plenary</p>	<p>Future fuel</p> <p>Write a review</p>	<p>This follows on from the research activity where students write a review based on their research and think about which energy options will be most likely in the future.</p>	