

ENERGY QUIZ 5

A community on the coast of the Gaspé Peninsula is looking to focus its power supply towards one major type of energy resource. Since it is located on the coast, the community can select a variety of energy resources.

You have been asked by the town council to outline the various types of energy resources from the lithosphere, the atmosphere, and the hydrosphere that could be harnessed.

- Name an energy resource for each sphere.
- Describe one advantage and one disadvantage of using each type of energy resource, from an environmental or technological point of view. You must refer to scientific or technological concepts in your answer.

	Energy Resource	Advantage	Disadvantage
Lithosphere			
Hydrosphere			
Atmosphere			

Answer:

	Energy Resource	Advantage	Disadvantage
Lithosphere	Fossil fuels Oil Natural gas Coal Nuclear energy Geothermal	<ul style="list-style-type: none">• No green house gas, very little produces a lot of energy (nuclear energy)• Renewable, clean (geothermal)	<ul style="list-style-type: none">• Pollution• Greenhouse gases• Nuclear waste• Risk of accident• Underground water needs to be present
Hydrosphere	Hydroelectricity Ocean and wave currents	<ul style="list-style-type: none">• Clean• Uses a renewable resource	<ul style="list-style-type: none">• Flooding of dam areas• Contamination of fish• Very expensive to set up• Still in the prototype stage
Atmosphere	Wind Solar	<ul style="list-style-type: none">• Clean• Uses a renewable resource	<ul style="list-style-type: none">• Requires constant wind• Disrupts migratory patterns• Requires a good amount of sun