



# A Green-Powered Canada

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## Worksheet

<b>Energy source</b> wave energy source	
<b>Type of resource (circle one)</b> <span style="border: 1px solid purple; border-radius: 50%; padding: 2px;">Renewable</span> Non-renewable	
<b>Definition</b> wave energy is capturing the energy made from the oceans surface waves.	
<b>Benefits</b> It's green energy and friendly to the environment It is predictable. As our weather can be forecast, it's possible to calculate the amount of energy waves will produce in advance.	<b>Drawbacks</b> Weak Performance in Rough Weather The Costs of Production only good in some locations
<p><b>How is this energy source being used in Canada?</b> One place in Canada that uses a lot of wave and tidal energy is Newbrunswick and Nova Scotia, at the Bay of Fundy. As you can see here are some pictures. I actually took these pictures when I went there with my family. The first picture was taken in the morning and the next was only a few hours later. It was amazing to see that the tide had gone up and down so fast. In the first picture the tide was so low that we were walking on the ocean floor and in the next on the tide had risen 16 meters, which is 52 Feet!! This shows how people living nearby can harness the powers of these waves. They can use wave technology like I talked about before such as Beuys and water columns to use the waves to their full advantage.</p> <p><b>What role could this energy source have in the future?</b> this could play a big role in the future for many reasons. the first is that it is very easy to use and i t is a renewable energy source. because it is renewable, more people will want to use it over fossil fuels.</p>	
<p><b>Provide two reliable sources for people who would like to learn more about this energy source:</b></p> <p><a href="https://www.science.org.au/curious/technology-future/ocean-power">https://www.science.org.au/curious/technology-future/ocean-power</a> Backoffice-CMS. (n.d.). <i>Oscillating bodies</i>. OES   Ocean Energy Systems - an IEA Technology Collaboration Programme. <a href="https://www.ocean-energy-systems.org/what-is-ocean-energy/waves/oscillating-bodies/">https://www.ocean-energy-systems.org/what-is-ocean-energy/waves/oscillating-bodies/</a></p>	

