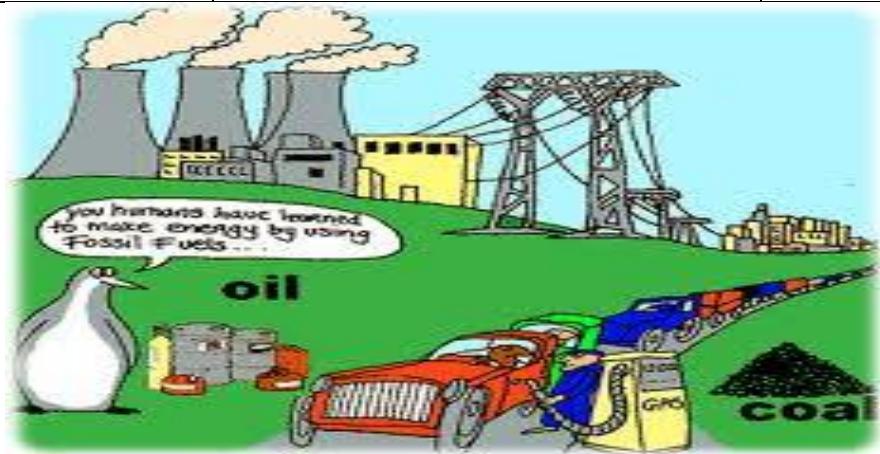


## Types of energy

	<b>Explanation</b>	<b>Positive and negative</b>
<b>Fossil fuels</b> <b>Lithosphere</b>	<ul style="list-style-type: none"> <li>result from the transformation of organic matter to inorganic matter</li> <li>includes coal, natural gas and oil which are compressed over millions of years and formed fossil fuels</li> </ul>	-when fossil fuels are burned they produce CO <sub>2</sub> and CH <sub>4</sub> which are main contributors to global warming



	<b>Explanation</b>	<b>Positive and negative</b>
<b>Uranium</b> <b>Lithosphere</b>	<ul style="list-style-type: none"> <li>natural occurring element in the earth's crust.</li> <li>splitting the nucleus allows a huge output of energy</li> </ul>	<ul style="list-style-type: none"> <li>waste material and equipment remains radioactive for hundreds of years. It is buried underground.</li> <li>risk of accidents is a constant concern (radioactivity)</li> <li>one handful provides as much energy as 70 tonnes of coal</li> </ul>



	<b>Explanation</b>	<b>Positive and negative</b>
<b>Geo thermal</b> <b>Lithosphere</b>	<ul style="list-style-type: none"> <li>from the internal heat of the Earth</li> <li>a fluid is circulated deep underground, heated, and then returns to surface</li> </ul>	<ul style="list-style-type: none"> <li>-used mostly in volcanic regions of world</li> <li>-very expensive to install for individual homes</li> <li>- no green gases emitted</li> </ul>

**Geothermal Energy for the Home**



	<b>Explanation</b>	<b>Positive and negative</b>
<b>Hydraulic</b> <b>Hydrosphere</b>	<ul style="list-style-type: none"> <li>-derived from moving water</li> </ul>	<ul style="list-style-type: none"> <li>-renewable</li> <li>-no greenhouse gases emitted</li> <li>-severe damage to ecosystems</li> </ul>

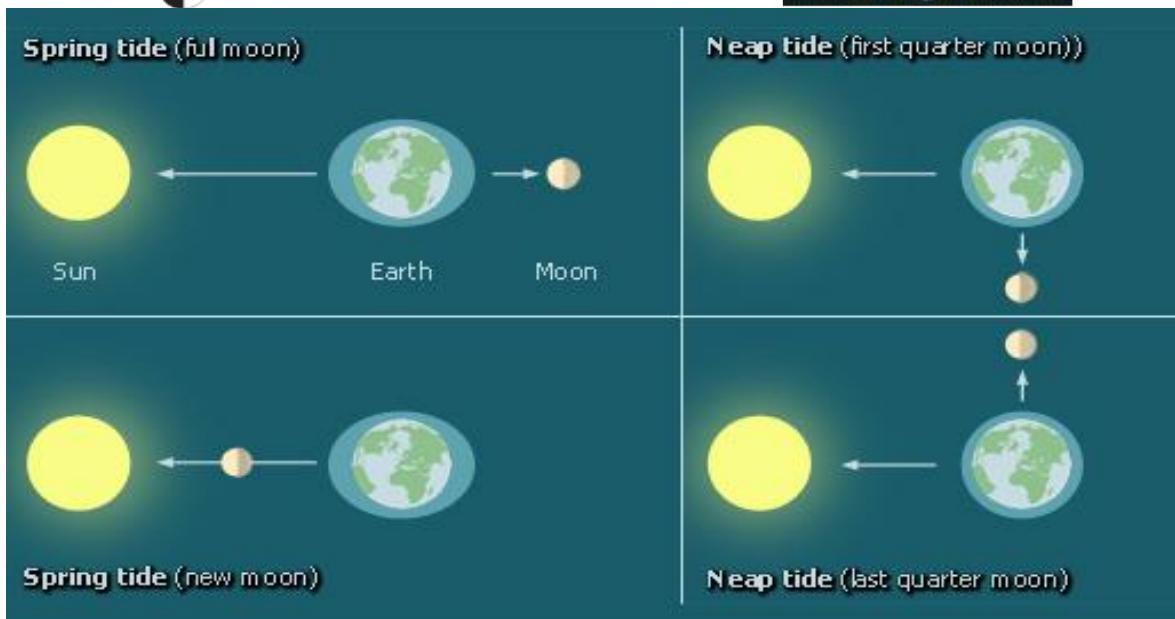
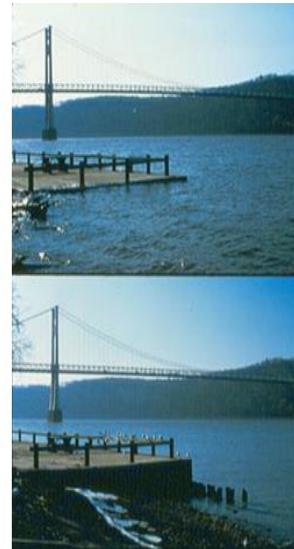
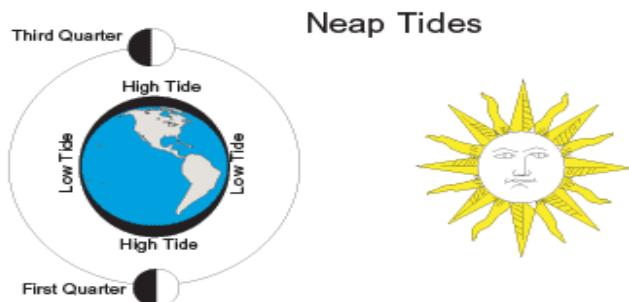
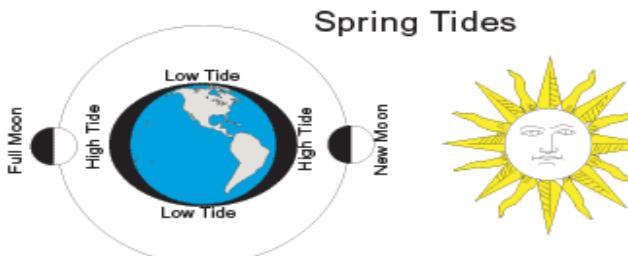


	<b>Explanation</b>	<b>Positive and negative</b>
<b>Tidal</b> <b>energy</b> <b>Hydrosphere</b>	<ul style="list-style-type: none"> <li>-energy obtained from the flow of ocean tides</li> <li>-works like a hydro electric plant</li> </ul>	<ul style="list-style-type: none"> <li>-no emissions</li> <li>-renewable</li> <li>-not always available and energy can't be stored</li> </ul>



## Tides

- High and low tides are the change in sea level due to the attraction to the moon, sun and the rotation of the earth.
- There are 2 high tides and 2 low tides each day.
- When closest to the moon, water is pulled toward it creating a high tide.
- When furthest from the moon, Earth is pulled more toward the moon than water which also creates a high tide.
- When the earth, moon and sun are aligned Spring tides are created which are the highest tides.
- When they are not aligned, high tides are called Neap Tides.



	<b>Explanation</b>	<b>Positive and negative</b>
<b>Wind and Solar energy</b>	-energy that can be drawn from the wind -as blades turn, they activate an electric generator -energy that comes from the sun in the form of radiation	-no emissions -renewable -can ruin landscape -wind not always available and can't be stored, but sun's energy can be stored -often used in combination with another type of energy power
<b>Atmosphere</b>		

