

## Introduction

Firstly, I have chosen this question because it affects us globally. When the hydrocarbon crude oil, which is a non renewable fossil fuel (and cannot be used again in our lifetime), is under combustion, it gives off emissions such as CO<sub>2</sub> which is a green house gas. These gases then form a cloud that traps the sun's rays from reflecting back into space, so they bounce back onto earth, shaping almost a zigzag formation. This means that the sun's rays are repeatedly hitting earth, causing the temperature to rise, this is called global warming. Through global warming scientists have calculated that after the next 20 years the global temperature will rise by 2 degrees, not much but after the next 100 years it would be 10 degrees, a major change. Signs of global warming can already be seen through the melting ice caps in the Arctic which are causing the polar bears to evolve or become extinct (evolution) due to human factors once again. Also the increasing amount of forest fires around the equator suggests that our climate is definitely changing.

It also affects me personally because it affects my environment in which I live in for without crude oil we could not be able to produce petrol, which my car uses for fuel so I would not have a car, most power stations could not provide energy for they use crude oil to generate electricity, heating etc, plastic is also made from crude oil through polymerisation which we use daily for food packaging etc. Without crude oil my life would change dramatically, but if we keep using it our global climate will also change, there has to be another solution Renewable sources are sources of energy that can be renewed or replenished within a short space of time (e.g. the wind can be used for energy by the use of a fan shaped mechanism in which the wind blows around turning the fan = powering the turbine which generates the energy known as wind energy: There are many different types of renewable sources but the main sources naturally occur (e.g. the sun's rays which is known as solar energy). Although there are some doubts that renewable energy cannot provide the amount of energy we need, it is far too expensive, it cannot compare with the use of crude oil.

In summary of my arguments, I believe that although crude oil does provide us with the energy to live our luxurious life in which we lead, we are using too much crude on a daily basis which is indefinitely changing the global climate through global warming and it is creating an accumulating number of plastics which are not biodegradable (cannot naturally decay for over 1000 years). It also harms animal's habitats through the extraction processes and can cause a major leak into the oceans when being transported. All these arguments for the argument clearly overpower the arguments against, stating that crude oil should not be used and that a new source of energy must be introduced to preserve our planet from further damage. But to summarise on whether renewable sources should replace crude oil is another matter for there are other ways such as nuclear power, but the process of building, running, dismantling is hard and the unreliable radiant gases given off have to be trapped beneath the ground for 1000s of years, taking up much of our needed land. So in conclusion though renewable are quite expensive and do rely on the environment around them, they can provide us with the energy we need with no harmful emissions given off and are very reliable, renewable sources seem to be the most logical answer.

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