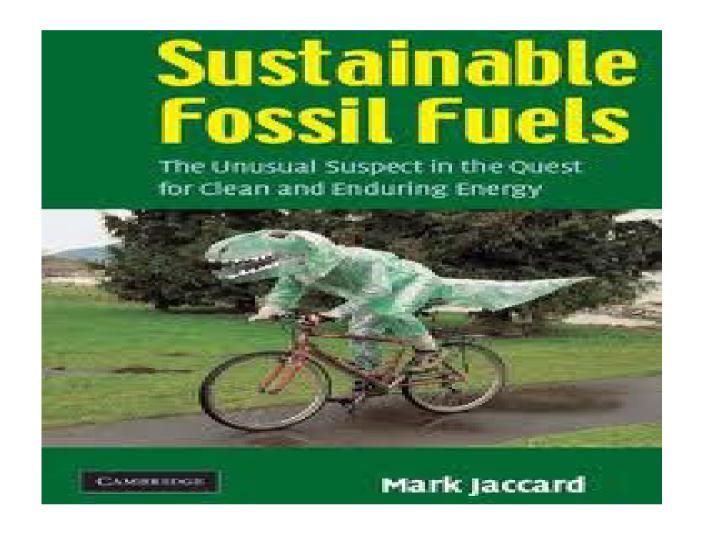
Fossil fuels: Energy from fossilised organic materials



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Coal, oil and gas are called "fossil fuels"

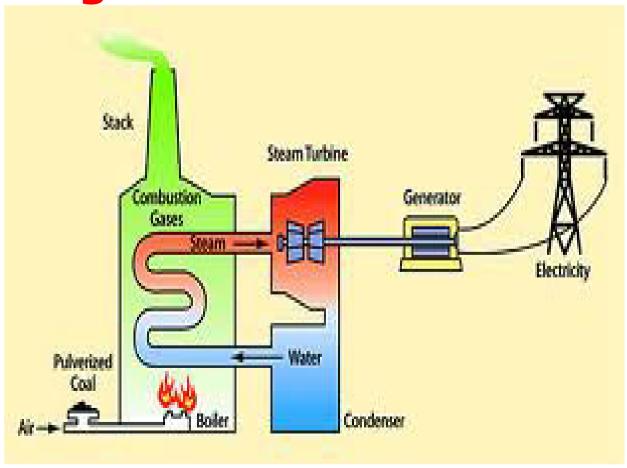
Because they have been formed from the organic remains of prehistoric plants and animals.

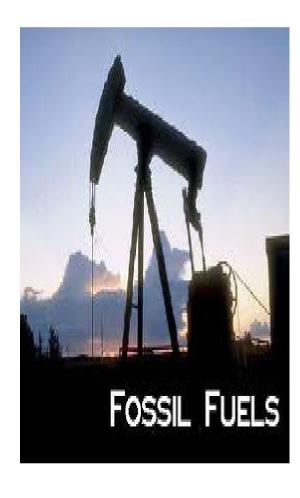


How it works: Coal is crushed to a fine dust and burnt. Oil and gas can be burnt directly.

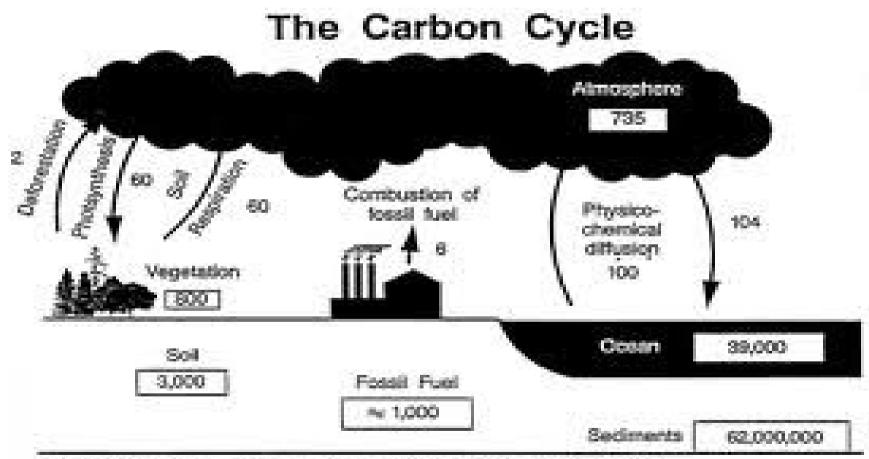


The steam that has passed through the power station's turbines has to be cooled, to condense it back into water before it can be pumped round again





Coal provides around 28% of our energy, and oil provides 40%.



Major reservoirs and fluxes - of the global carbon cycle Reservoirs are in Gtc. Fluxes in Gtc yr.



Burning coal produces sulphur dioxide, an acidic gas that contributes to the formation of acid rain. This can be largely avoided using "flue gas desulphurisation" to clean up the gases before they are released into

the atmosphere.



Crude oil (called "petroleum")
is easier to get out of the ground than
coal, as it can flow along pipes. This
also makes it cheaper to transport.



Natural gas provides around 20% of the world's consumption of energy, and as well as being burnt in power stations, is used by many people to heat their homes.



Advantages

-Very large amounts of electricity



- -Transporting oil and gas to the power stations is easy.
- -Gas-fired power stations are very efficient.

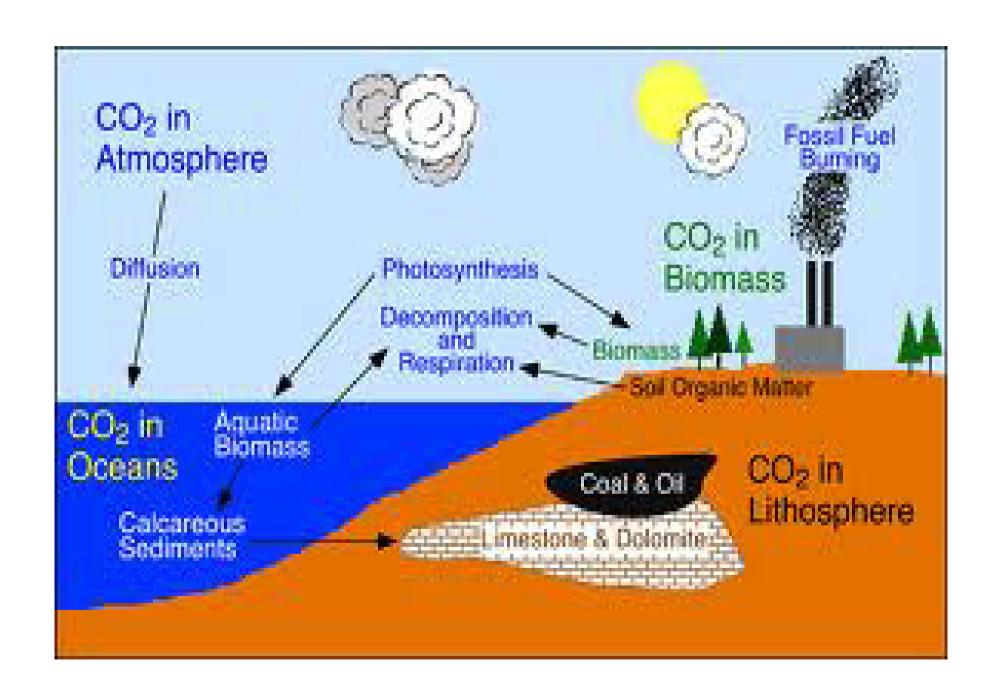


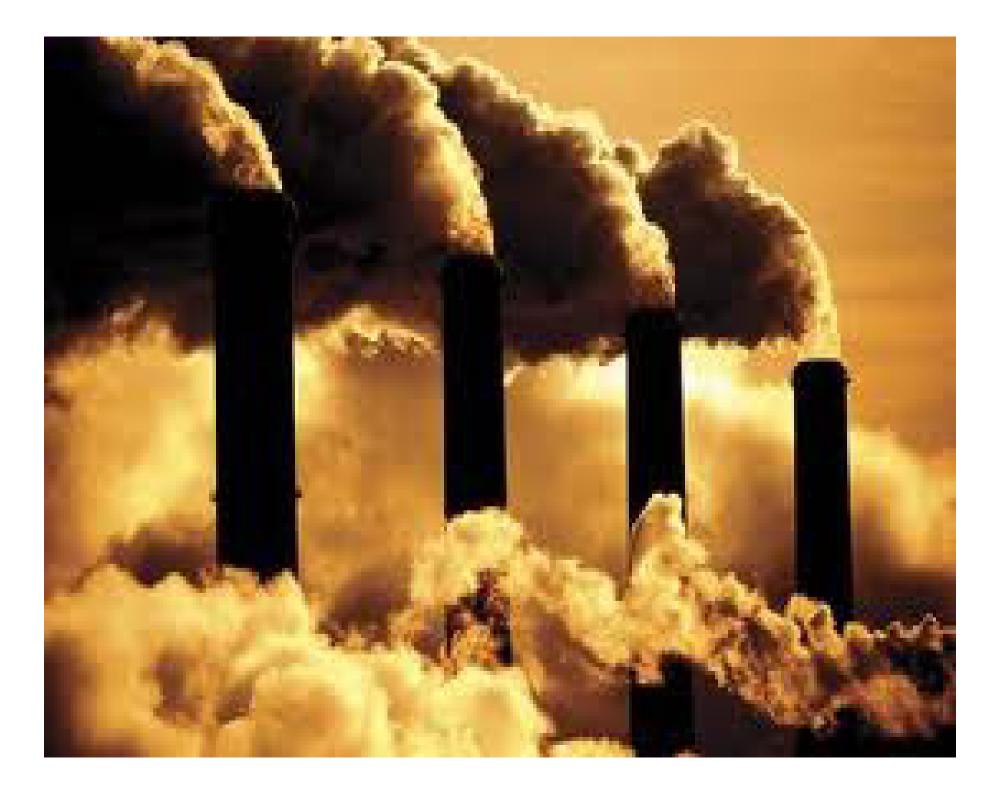
Disadvantages

Pollution:

 Burning any fossil fuel produces carbon dioxide







Mining coal can be difficult and





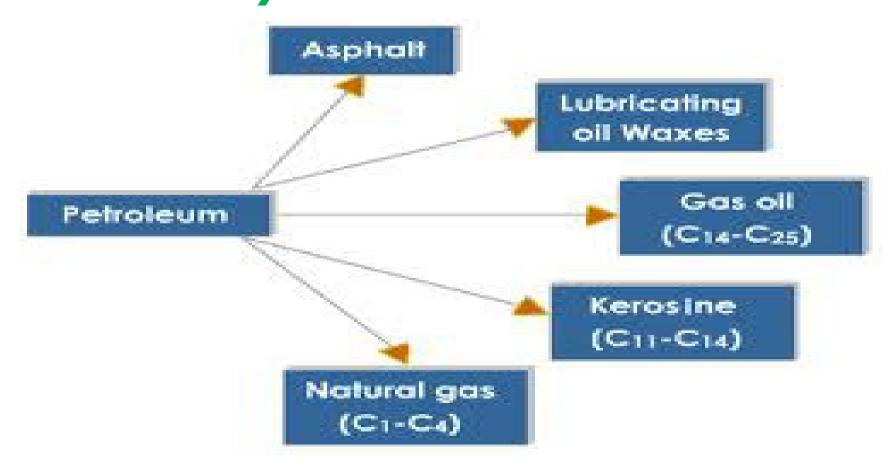
Workers emerging from a coal mine. Obanbad, Other State, India, 1965 - Galatin Silver Print, 19 SB X 23 102 inches Photographs by Sabastilio Salpado/Amazanas Images

 Fossil fuels are not a renewable energy resource.

Once we've burned them all, there isn't any more!!

Once we've burned them all, there isn't any more

because more coal seams and oil fields will be formed if we wait for many millions of years!!!!



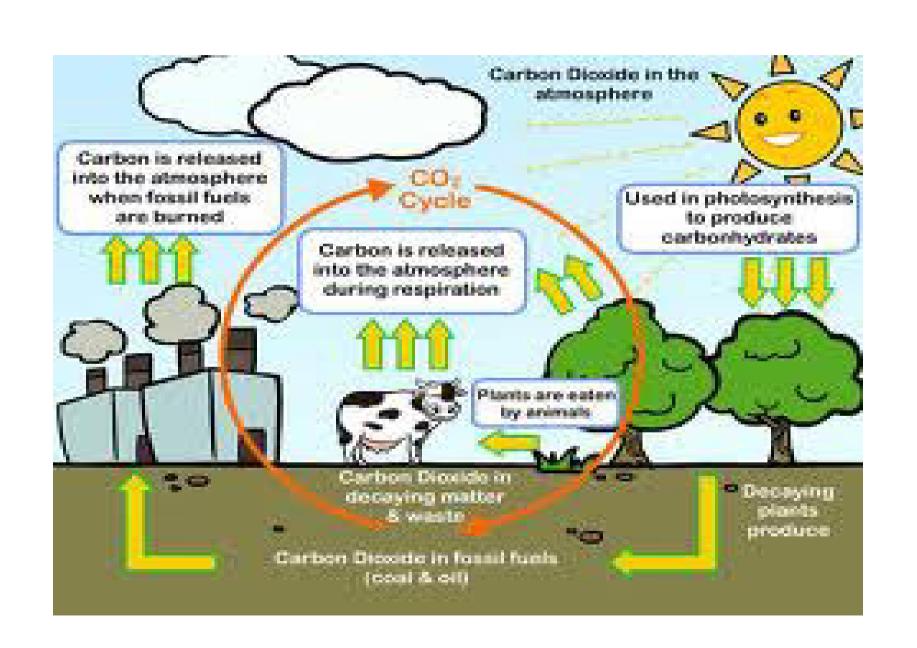
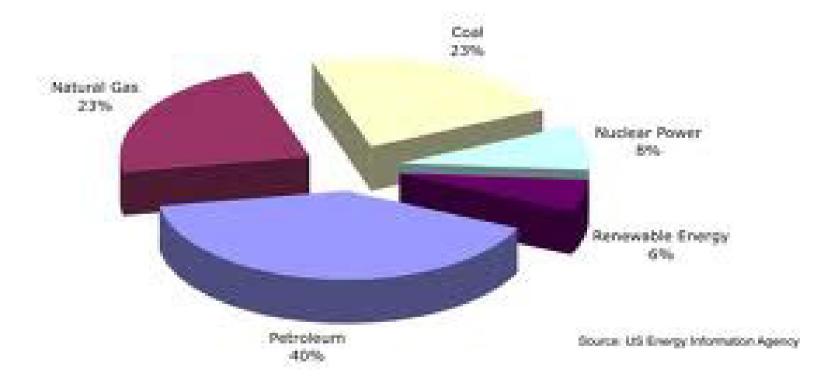
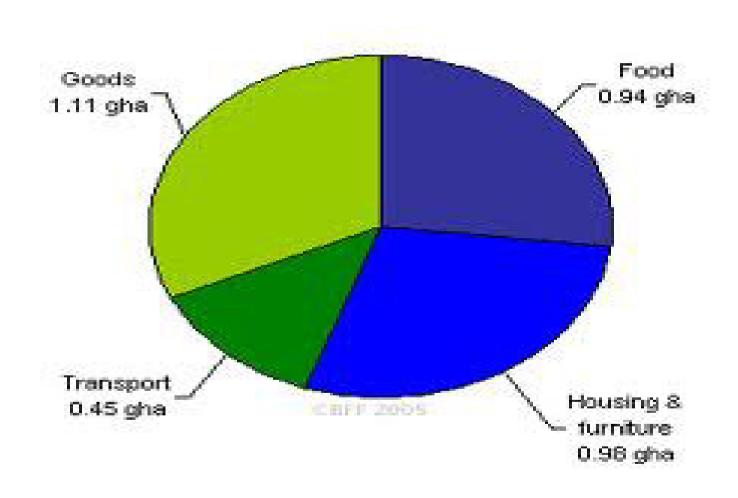


Figure 1: 86% of US Energy Consumption Is Fossil Fuels

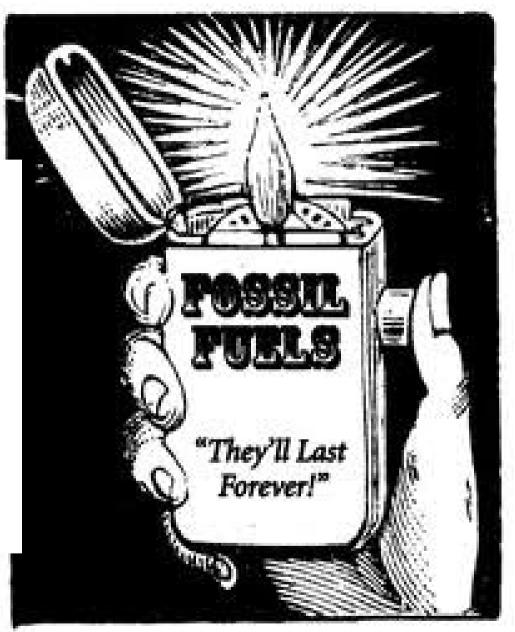


Fossil fuels are used in:



The end!!





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