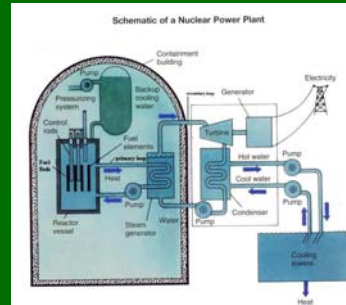


Lecture - Alternative energy strategies



Be sure to revise the digarm constructed in class, showing a chain reaction. Additionally, look over the notes you made during the video on nuclear energy



Sustainability- The ability of a system to survive for a specified finite time.

The applied definition - Long term ecological stability.

In a sustainable society the society is managed to ensure that it minimizes it's impact on the natural system, meeting the needs of the society without depleting natural resources and biological legacies that future generations are entitled to.



A sustainable solution ?

Alternative fuels.

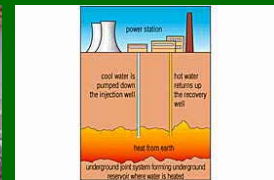
All have pros and cons...



Wind and wave energy



Geothermal energy in California.



Hydroelectric power schemes.



Bio fuels

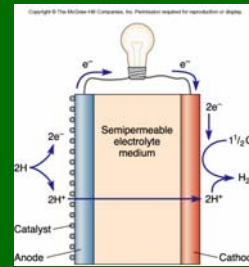


Hydrogen - the Fuel of the future ?

In a fuel cell - gaseous hydrogen and oxygen combine - heat and electricity is generated. The only by product is water.



How the fuel cell works : Electrons are removed from the hydrogen at the anode, producing hydrogen ions (protons) that migrate through the electrolyte medium. At the cathode they are reunited with electrons, to form hydrogen, which then combines with oxygen to form water.....



A cultural shift ? Which is cool ride these days ??



At the end of the day -
Tread lightly
Hopefully we can make
do with the one we have....





A sustainable system ?