

## Definitions and “non-debatables” – Energy

climate change

Drastic climate change on a worldwide scale with abnormal temperatures (highs & lows) and extreme weather events (hurricanes, droughts, etc.).  
We don't use the term global warming anymore because it's more than just increased temperatures

greenhouse effect & gases

Effect – greenhouse gases in the atmosphere trap the sun's rays and heat the Earth.  
Greenhouse gases/emissions – carbon dioxide (CO<sub>2</sub>) and methane

What's happening?  
Why?

Climate change is happening due to greenhouse gas emissions.

What's the response?

Reduce emissions through taxes and “cap and trade” and by alternative energy.  
Geo-engineering – cooling the planet or capturing CO<sub>2</sub>

peak oil

There's a point (the peak) where the demand of oil will exceed the supply. What's debated is when it will happen.

fossil fuels

Fuel that is non-renewable, the remains of fossilized dinosaur and plant remains.

Non-renewable fuels - Oil, natural gas, coal.

alternative energy

Renewable energy sources, things that can replace fossil fuels.

Examples – geothermal, solar, wind, hydroelectric, wave/tidal/ocean, biomass, nuclear, hydrogen