Blog week-07

Climate change is a growing concern in today's world as it brings unpredictable weather along with it. It leads to more severe drought, storms, heat waves, rising sea levels, melting glaciers and warming oceans. All of these consequences can harm all life on the plannet including us humans. This has been caused mainly by our use of fossil fuels to produce energy. There are many new innovative ideas to shift our supply of energy to that of a cleaner one.

Iceland is a great example of an innovative switch in energy. Geothermal energy is 66% of iceland's prime energy use as of 2014 [1]. By digging deep into the earth's crust we can extract energy by using the natural heat of our planet. As we dig deeper into the crust the earth is hotter and we can use this heat to create steam to inturn, rotate windmills.

Another innovative idea to combat climate change is solar roadways. A company called *Solar Roadways* has developed a system in which the surface of roads and driveways will be made of solar panels. The panels will stor energy like a traditional solar panel. This energy will be used to light the road lines and signs. The solar panels will also be able to heat when the weather is cold to melt ice and snow off the roads making them safer, solving another problem. These panels will also be able to communicate with autonomous cars wirelessly and keep people safe on the road.

Wind Turbines floating on the ocean is another innovative solution. Scotland government officials have given permission for the UK's largest wind turbine farm to be built off the coast. These turbines will be anchored to the sea bed while moving with the waves of the ocean generating energy. The turbines will also create energy using wind power using the strong ocean breeze.

Reference:
[1] orkustofnun. (unknown). Geothermal. Available: https://nea.is/geothermal/#:~:text=Iceland%20is%20a%20pioneer%20in,geothermal%20energy%20for%20space%20heating.&text=In%202014%2C%20roughly%2085%25%20of,of%20Iceland's%20primary%20energy%20use.. Last accessed 22nd feb 2022.