**How you see your life in 2050**

* By 2050 climate change will no longer be up for debate.
* The air that we breathe will be mostly polluted,
* Earth would be warmer, ***Clean water*** might be a scarcity,
* We might find ourselves with ***new emerging diseases***, affecting human health
* Climate change will bring excess rain, flooding, forest fires, and droughts.
* Needless to say the agriculture sector will be the most affected with these extreme weather patterns. ***Food production will be inadequate*** to feed the growing global population.
* The global waste, will increase by at least 50% as the urbanization and population rises.

**To reduce the extent of these permanent changes with our climate we need to start acting now.**

1. First by regulating the industrial waste, with proper measures and protocols.
2. Large-scale installation of renewable sources such as ***Solar, Wind, Hydro Power***. Including biofuels such as ***Biogas, CNG, Green Hydrogen*** as a potential source of energy for the future.
3. Planning out strategies to incorporate these renewable resources. According to the geography of the area.

-- For example I saw an experiment involving IIT Students and teachers using Biomass collected from residential areas as a substitute to generate the energy needs of a village.

1. One big step towards meeting the energy needs is to generate solar energy from the current 67.82 GW (as of 31 May 2023) to ***280 GW of solar energy by 2030***. This step also includes innovation in the distribution system to reduce power loss.
2. ***Increasing the ground water table***. I'm glad to say that the government has already taken step towards this initiative. Central Government has used its Jal Shakti Abhiyan-I to incentivize the revival of traditional water harvesting structures by States, encouraging rainwater harvesting to increase availability of utilizable water in urban and industrial areas.

-- A great example of this is the Rain Water Harvesting Challenges within villages the state of Maharashtra. Revival of Bavadi’s or traditional water collection wells in Rajasthan and other states.

1. ***Afforestation*** will also play a major role in controlling climate change. Increasing forest cover will help in restoring the degraded forest area in the country.
2. India has also put forward an ambitious target of being ***Carbon Neutral by the year 2070***.
3. Sustainable Lifestyle practices. Such as using Electric, CNG, Ethanol based vehicles.
4. Having good public transport infrastructure. Incentivizing people to use public transport as much as possible as oppose to the private vehicles.
5. ***Reducing Food and Clothing waste*** will also be a major factor in reducing the greenhouse emissions.

All these practices will bring about a substantial change in reducing the carbon emissions and Turing the tide of climate change for a healthy and better tomorrow.