

Green House Effect and Global Warming

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INTRODUCTION

There are certain greenhouse gases in our atmosphere like carbon dioxide, water vapour, methane which absorb and emit radiation within the infrared range. The absorbed energy warms the atmosphere and the surface of the Earth. This process maintains the Earth's temperature at around 33 degrees Celsius warmer than it would otherwise be, allowing life on Earth to exist.

This is called Green House effect which ultimately increased the temperature of earth surface, and is causing global warming. This is the issue of global concern in today's fast competitive world.

GREENHOUSES GASES AND CONCERNTRATION

The concentration of greenhouse gases is increasing day by day due to human's greed and unsustainable use of the natural resources. The humans are recklessly exploiting land for agriculture, housing and other selfish needs and using burning fossils fuels for electricity, fuel, and combustion and heat generation. However, even the fossil fuels are limited in nature and are depleting vast like other resources. This leads to increase in carbon emissions and greenhouse gases like methane, nitrous oxide, chlorofluorocarbons (CFCS) which gets trapped and reflected back to earth, causes global warming. The temperature of earth's surface increase, the water level of sea surface increase as glaciers melt down to water, which ultimately disrupts the eco-system.

GLOBAL WARMING AND ITS ILL EFFECTS

Global warming is a pressing issue of today and it is disrupting life. The increased temperature causes increased water level because of melting of glaciers from north and South Pole which leads to destruction of habitat for the wildlife which resides there. They are displaced off their habitat, face severe scarcity of food, and are unable to adapt to any changes. The fluctuations in temperature kill the aquatic life as well and this disrupts the food chain. The warmer oceans contain less oxygen which can prove disastrous for ocean life. This also leads to extreme weather conditions like droughts, forest fires, cyclones and storms. Ozone depletion is yet another effect of global warming. The ozone layer protects us from harmful UV rays but due to excessive use of chlorofluorocarbons, the gases found in refrigerants which reduce ozone's UV rays absorption capability. There is change in precipitation pattern, weather patterns, temperature and other natural systems. Humans find difficulty in breathing as pollution worsens giving away to various respiratory health diseases and disorders. It also displaces people from their native lands due to calamities like floods and other climatic change disasters.

TOWARDS CHANGE

- Less use of air conditioners, refrigerators, LPG operated vehicles and other devices that cause pollution and release gases which add to earth's temperature.
- Using electric vehicles and eco-friendly products which doesn't harm environment.
- Using organic farming and switching to methods like crop rotation, to save land and make it less exploited by not using harmful chemicals and fertilizers that degrade the quality of land.
- Stopping burning fossil fuels and switching to non-conventional and renewable sources of energy like solar and hydroelectricity which have immense potential.