

GREENHOUSE EFFECT (GLOBAL WARMING)

- Greenhouse gases
- Water vapours 36 - 70%
Highest contribution
- Carbon dioxide 9 - 26% Second highest contribution maximum effect on global warming
- Methane 4 - 9%
- Ozone 3 - 7% Ozone layer is beneficial as it cuts down UV transmission
- Chlorofluorocarbons (CFCs) a non-natural gas depletes ozone layer

- These gases absorb the energy reflected from Earth's surface, while being transparent to incoming solar radiation

- They act as a blanket, trapping & preserving heat in the atmosphere & maintaining a cons

tant temperature in the atmosphere • So, when there is an increase in greenhouse gases in the atmosphere, trapping of heat occurs which results in global rise in temperature (Global Warming)

- Increase in Greenhouse gases results due to increase use of

- Fossil fuel (oil, gasoline, coal), Nitrogenous fertilizers, Coal mining,

Organic matter

- Land filling, expansion of Rice paddies & burning of biomass

GLOBAL WARMING

- Global warming is the increase of Earth's surface temperature due to effect of Greenhouse gases such as Carbon dioxide emission from burning fossil fuels or from deforestation, which trap heat that would otherwise escape from earth
- Global Warming may result in • increase of about 3°C in the average global surface temperature by the year 2030
- Melting of Glaciers
- Rise in sea level of 0.3 meters by

2050

- Submerging the coastal areas
- Increase in occurrence of extreme climatic events such as cyclones & draughts *

Alter the distribution of rainfall.
Warming induces a decline in soil moisture that impairs grain production

PREVENTION OF GLOBAL WARMING.

Kyoto protocol - .

* Sets standards to decrease Greenhouse gases globally (by 18%)

* 16th Feb. 2005

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- * Target's reduction in 187 countries •
- * Carbon dioxide
- * Methane
- * Nitrous oxide
- * Sulphur-hexafluoride (SF_6) •
- * Perfluorocarbons (PFC) •
- * Chloro-Floro-Carbons (CFC) •
- * Paris protocol - to decrease CO_2 emission or other harmful gases
- * Heat Island - Phenomenon that makes cities warmer than surrounding rural