19CH101 – ENGINEERING CHEMISTRY
Unit-4 FUELS AND COMBUSTION

CARBON EMISSION

It is defined as the release of carbon into the atmosphere. Since green house gas emission are often calculated as carbon dioxide equivalents, they are reffered to as " carbon emission"

SOURCE

Burning of fossil fuels like coal , oil and natural gas are primary source due to the following activities

1. Transportation
2. Electricity production
3. Industry
4. Agriculture
5. Land use and Forestry
6. Commercial and residential

REDUCTION OF CARBON EMISSION

Carbon emission can be reduced by reducing green house gas emission. It canbedone by following ways

1. In industry, green house gas can be reduced by many ways
   1. Including energy efficiency
   2. Fuel switching
   3. Combined heat and power
   4. Use of renewable energy

2. Avoid use of HFC's in refrigeration, air conditioning and foam blowing

CARBON FOOT PRINT

It is the total amount of green house gases (including CO2 and CH4) that are generated (emitted) by our direct and indirect activities.

SOURCE

1. Climate change
2. Natural process like volcanos.
3. Industrial activities
4. Green house gases from human activities
5. Heating and cooling in homes and business

CONTROLLING CARBON FOOTPRINT

1. Calculate your carbon foot print
2. Drive less
3. Switch to electric car
4. Travel smart
5. Switch to renewable resources
6. Consider solar panels
7. Make your home more efficient
8. Get energy efficient appliances
9. Unplug electric appliances when not in use
10. Eat less meat