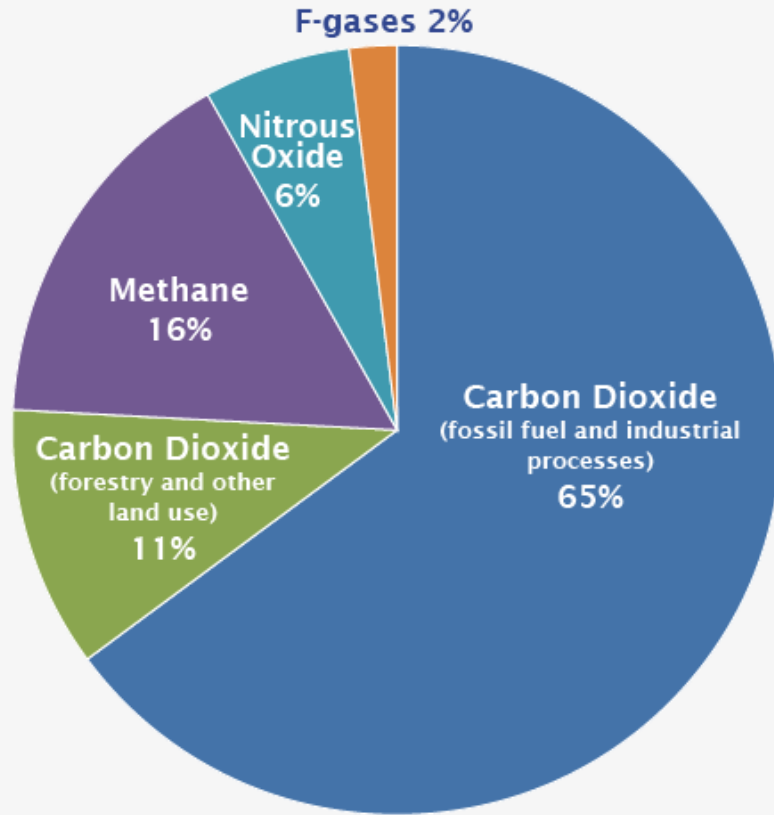


# Greenhouse gases

Global Greenhouse Gas Emissions by Gas



**Task** – Write a sentence about each gas.

**Carbon dioxide ( $\text{CO}_2$ ):** Fossil fuel use is the primary source of  $\text{CO}_2$ .  $\text{CO}_2$  can also be emitted from direct human-induced impacts on forestry and other land use, such as through deforestation, land clearing for agriculture, and degradation of soils. Likewise, land can also remove  $\text{CO}_2$  from the atmosphere through reforestation, improvement of soils, and other activities.

**Methane ( $\text{CH}_4$ ):** Agricultural activities, waste management, energy use, and biomass burning all contribute to  $\text{CH}_4$  emissions.

**Nitrous oxide ( $\text{N}_2\text{O}$ ):** Agricultural activities, such as fertilizer use, are the primary source of  $\text{N}_2\text{O}$  emissions. Fossil fuel combustion also generates  $\text{N}_2\text{O}$ .

**Fluorinated gases (F-gases):** Industrial processes, refrigeration, and the use of a variety of consumer products contribute to emissions of F-gases, which include hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride ( $\text{SF}_6$ ).