Greenhouse Gases

Greenhouse gases are gases responsible for trapping infrared radiation (like the glass on the greenhouse - can think of this as a blanket)

- water vapour (H₂O) not visible as a vapour
 - responsible for 70% of the green house effect
 - largest contribution to the <u>NATURAL GREENHOUSE</u>
 EFFECT
- carbon dioxide (CO₂)
- methane (CH₄) called natural gas
- nitrous oxide (NO₂)

<u>Carbon Dioxide</u> is produced by:

- cellular respiration (happens in all living things)
- all combustion of hydrocarbons (includes wood, grass, <u>FOSSIL</u>
 FUELS (OIL, GAS, NATURAL GAS, DEISEL FUEL)
- most of the extra carbon dioxide present in our atmosphere now is due to burning fossil fuel (transportation, home heating, industrial processes)

Efficiency per molecule = 1

Methane is produced by:

- decaying living matter
- farts
- released by melting permafrost

Efficiency per molecule = 25

Nitrous Oxides are produced by:

- car exhaust
- any time there is a hot flame source Efficiency per molecule = 230