Abstract: The increase in global temperature observed in the last half century is one of the greatest threats to life on Earth. Most scientific papers link this increase to human activity, especially the burning of fossil fuels and the generation of huge amounts of CO_2. In the paper, based on the basic laws of thermodynamics and chemical engineering, author discusses that one of the most important factors causing changes of global temperature is the increase in heat flux coming from the Sun and generated by humans. This in turn leads to an increase in the concentration of water vapour in the atmosphere and explains the warming effect.