

USE OF HYDROCARBON FUELS AND CLIMATE CHANGE

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Abstract: The contribution of combustion of hydrocarbon fuels to the CO₂ content in the atmosphere and the impact of this factor on climate change are analyzed. The reasons for considering CO₂ as the main greenhouse gas are discussed. An assessment of the CO₂ balance in the atmosphere and the contribution of CO₂ emissions to the environment when using hydrocarbons as energy sources has been carried out and a comparison with other sources of CO₂ emissions and stocks has been carried out. The influence of carbon dioxide on the Earth’s climate is discussed starting with the seminal work of Arrhenius.

Keywords: hydrocarbon combustion; CO₂ emissions; climate change

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Table Caption

The amount of carbon on Earth in various media and forms [7]

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