

# Climate Change and Global Warming

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## THE IMPACT OF VARIOUS ENERGY SOURCES ON GLOBAL CLIMATE CHANGE

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**T**he report represents the data on the impact of various energy sources on indicators that effect global climate change: greenhouse gas emissions and the carbon footprint for the creation and operation of power plants using various fuels (coal, gas), nuclear, wind, solar and hydroelectric power stations. The advantages of using atomic energy are shown. It is environmental like along with solar and wind energy. It is nuclear and thermonuclear reactions to the sun and within the core of the earth, and, as a consequence, solar radiation, are primary environmental-like resources. Quantitative indicators of the mass of sources use of a complete carbon footprint, as well as data on abiotic depletion of resources, the potential of global warming for various types of gas fuel, coal, nuclear, hydro, solar and wind energy are given for the first time. The advantages of a combination of gas generation with nuclear at the prospect of using gas hydrates, as well as RES and atomic energy are shown.

### Biography

Vladimir A Grachev started his career in 1960s as an Engineer at Compressor Plant and later, he held a Chair at the Penza State Polytechnical Institute. In 1990, he was elected as a Deputy Chairman of the Committee on Higher Education and Training at the Supreme Council of the Russian Federation. He was the Chief of the Federation Council's Committee on Science, Culture, Education, Health and Ecology. In 1999-2007, he was elected as a deputy of the State Duma, the Chairman of the Committee on Ecology. Now he has been the Adviser to the Director General of Rosatom. His main Research area is Physico-Chemical Technological Bases of Non-Organic Materials. He is an Honorary member of the PACE, Chairman of the Public Council under Rostekhnadzor, member of the Commission for UNESCO, President of Vernadsky Non-governmental Ecological Foundation

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