

# Global Climate Change: Challenges and Preventive Measures

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**Abstract:** *This review essay will demonstrate that global warming-induced climate change is already occurring and requires urgent response. In recent years, notably the last three decades, convincing evidence that Earth's climate is changing fast has collected. Theoretical models replicate the database with increasing success, but they do not prove that the Earth is warming. Global warming is verified by massive observations from numerous sources. The emphasis of study has changed from proving global warming to determining its causes. The precise magnitude of global warming's damage is hard to estimate, but its negative consequences on climate will far exceed its advantages. Human-generated greenhouse gases, especially carbon dioxide, are likely the main driver of well-documented global warming and climate change. Much can be done today to minimize global warming and climate change. Technology is not the main issue; a lack of incentives to apply new technologies more aggressively is.*

**Keywords:** Global Warming, Climate Change, Environmental Impact, Mitigation Strategies.