

## GLOBAL WARMING AND ITS EFFECT IN CLIMATE CHANGING

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**Abstract:** *Global warming is one of the most pressing issues facing humanity today. It refers to the long-term increase in Earth's average surface temperature due to human activities, primarily the burning of fossil fuels and deforestation. This article presents an overview of the causes, effects, solutions, and future directions regarding global warming.*

**Key words:** *Greenhouse Gas Emissions, Deforestation, Industrial Processes, Extreme Weather Events, Renewable Energy*

### INTRODUCTION

The primary cause of global warming is the burning of fossil fuels for energy, deforestation, and industrial processes. As more greenhouse gases accumulate in the atmosphere, they trap heat from the sun, leading to a gradual rise in temperatures. This warming effect has far-reaching consequences, including extreme weather events, melting ice caps, and disrupted habitats.

This phenomenon poses significant threats to our environment, affecting climate patterns, sea levels, and ecosystems worldwide.

Human activities are responsible for the bulk of greenhouse gas emissions, particularly carbon dioxide (CO<sub>2</sub>) and methane (CH<sub>4</sub>). The combustion of fossil fuels for energy, transportation, and industrial processes releases vast amounts of these gases into the atmosphere, trapping heat. Trees absorb CO<sub>2</sub>, and when forests are cleared for agriculture or urban development, this carbon-storing capability is lost. Moreover, the burning of trees during deforestation contributes additional CO<sub>2</sub> emissions.

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Certain industries release greenhouse gases through chemical reactions or inefficient practices that escape regulation. Examples include cement manufacturing and waste management practices.

**Rising Sea Levels:** The increase in global temperatures causes polar ice sheets to melt and ocean water to expand, leading to rising sea levels that threaten coastal communities and ecosystems.

Global warming is linked to an increase in the frequency and severity of extreme weather, including hurricanes, droughts, and heatwaves, causing economic and social instability.

Altered habitats and changing climates are causing many species to struggle for survival, leading to a loss of biodiversity and disrupted ecosystems.

To combat global warming, a combination of policy, technology, and individual action is necessary: Transitioning from fossil fuels to renewable energy sources, such as solar, wind, and hydroelectric power, can significantly reduce greenhouse gas emissions.

**Energy Efficiency:** Improving energy efficiency in homes, businesses, and transportation can lead to substantial reductions in energy consumption and emissions.

Planting trees and protecting existing forests can help absorb CO<sub>2</sub> from the atmosphere, mitigating the effects of climate change.

Addressing global warming necessitates coordinated global action and ongoing research:

**International Agreements:** Agreements like the Paris Accord aim to unite countries in efforts to limit temperature rise and reduce emissions collectively. Continued commitment to these frameworks is essential.

**Technological Innovation:** Innovative technologies, such as carbon capture and storage (CCS) and advancements in electric vehicles, hold promise for reducing emissions and aiding the transition to a low-carbon economy.

**Public Awareness and Education:** Raising awareness around global warming and its impacts encourages individuals and communities to adopt sustainable practices, participate in advocacy, and influence policy changes.

**Conclusion:** Global warming poses a significant threat to the planet and requires immediate and sustained action. By understanding its causes and effects and implementing viable solutions, we can work towards a more sustainable and resilient future. It is imperative that individuals, communities, governments, and organizations come together to combat this global challenge.

Addressing global warming requires global cooperation and commitment to reduce greenhouse gas emissions, transition to renewable energy sources, and implement sustainable practices. Understanding the science behind global



warming is crucial for developing effective strategies to mitigate its impacts and protect our planet for future generations.

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