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CLIMATE CHANGE : CAUSES AND CONSEQUENCES

Introduction

Heading towards tipping points - a worldwide, irreversible tragedy.

Understanding Climate Change

An existential threat; a present reality; shifting temperatures and weather patterns.

Causes of Climate Change

1. Low-impact natural causes

Natural course of Earth's existence; volcanic eruptions; fluctuations in solar radiation; tectonic shifts; orbital changes.

2. High-impact manmade causes

Industrial Revolution; unchecked burning of fossil fuels; Destruction of Carbon Sinks; accumulation of greenhouse gases at unprecedented rate.

3. Human activities as ecological "serial killing"

Transportation; Power generation; Industry and Manufacturing; Agriculture; Infrastructure

Consequences of Climate Change

1. Environmental consequences

Global Warming; Extreme Weathers; Melting glaciers; Oceanic life

2. Ecological consequences

Loss of biodiversity, Habitat destruction, Migration, Extinction risks

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3. Socio-economic Consequences

Natural resources scarcity; Food crisis; Health security; Economic burden

4. Security and conflict

Marginalized communities at risk; Displacement and refugee crises; transboundary tensions.

Mitigation and Adaptation Strategies

1. Climate Financing
2. Climate Justice
3. Decarbonization
4. Energy alternatives
5. Community resilience

Hurdles to Overcome

1. Individual responsibility and awareness

Carbon footprints; reconsidering lifestyle choices

2. Politics of Climate Change

North-South Divide; Lack of seriousness; Urgency delays

Conclusion

This might be our last century and our downfall is inevitable', contends Dr. Ihan Niaz in his work "Downfall: Lessons for Our Final Century." He draws attention to environmental breakdown at crossroads, highlighting our (human species collectively) failure to comprehend the urgency of 'abstract' existential threat, let alone respond appropriately. The impact of climate change on ecosystems, economies, and human lives is already being felt worldwide. From flash floods to earthquakes, forest fires to abnormality in seasonal changes - no person, no nation is invincible to climate catastrophe. Despite shocks felt, the mankind continues on its self-destructive, growth-oriented, extractive mindset unabated resulting ecological disequilibrium. Against this backdrop, technical interventions, including, climate funding, justice, decarbonization, exploring energy alternatives and ensuring community resilience, needs to be complemented by major mindset redirection. In confronting climate change, we confront not only a scientific challenge but a moral imperative to safeguard our planet for future generations.