

Climate Change: Causes and Consequences

Introduction:

"The Earth is heating up faster than at any point in human history, and the fingerprints of humanity are all over it." Climate change has evolved from distant scientific prediction into a visible and alarming global reality. Around the world, rising temperatures, prolonged droughts, flash floods, intense heatwaves, and rapidly melting glaciers serve as undeniable evidence of human influence on the planet's climate system. Over the past century, human activities such as the burning of fossil fuels, large scale deforestation, rapid industrialization, and urban expansion have released vast amounts of greenhouse gases into the atmosphere, trapping

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heat and disturbing Earth's natural balance. This growing environmental crises threatens ecosystems, economies, and human health, affecting food security, water availability, and biodiversity. In Pakistan, the devastating floods and recurring heatwaves highlight the country's vulnerability to global warming. This essay explores the human negligence driven through fossil fuel use, deforestation, industrialization and waste mis-management that intensified greenhouse gas emissions resulting in severe climatic, environmental and socio-economic consequences.