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THE POLITICAL SOCIAL AND ENVIRONMENTAL DIMENSIONS OF CLIMATE CHANGE

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ABSTRACT

Climate change impacts the life of every person. However, there is little comprehensive understanding of the direct and indirect effects of climate change on agriculture. Because our food, feed, fibre and fruit are derived from agricultural systems, understanding the effects of changing temperature, precipitation, carbondioxide on plant growth and development is critical. Solar radiation and ozone are changing as part of the climate complex and will affect plant Growth and development understanding the dynamics of plant growth and development with climate will help ensure an adequate agriculture system to meet human needs as the population increases. Climate change first emerged as a political issue in the 1970s. Efforts to mitigate climate change have been prominent on the international politics agenda since the 1990s and are also increasingly addressed at national and local level. As the climate continues to change, millions of poor people face increasing the challenges in terms of extreme events health effects food water and livelihood security migration and forced displacement, loss of cultural identity and other related risks. The issue of climate change is not merely an environmental issue but it involves many other issues in a cascading fashion. Indeed it is a multi dimensional global issue which requires a collective, coordinated and honest action to avert change in earth's climate.

Keywords: Climate Change Education, Carbon Sequestration, Biodiversity, Greenhouse Gas, Environmental Protection.

Introduction

Climate change refers to long-term changes in the Earth's climate, including changes in temperature, precipitation, and other weather patterns, that have been occurring in recent decades and are expected to continue in the future. The main cause of climate change is the increased level of greenhouse gases in the atmosphere, such as carbon dioxide, methane, and nitrous oxide, which trap heat and cause the planet's temperature to rise.

Human activities such as burning fossil fuels, deforestation, and industrial processes have been the primary drivers of this increase in greenhouse gases. The effects of climate change are wide-ranging and can be seen in many parts of the world, including rising sea levels, more frequent and intense weather events like hurricanes and wildfires, and changes in the behavior of plant and animal species.

The impacts of climate change are not limited to the environment, as they also have social and economic implications. For example, changes in climate can affect food production, water resources, and human health, leading to increased poverty, inequality, and displacement of people.

Efforts to address climate change include reducing greenhouse gas emissions through the use of renewable energy, improving energy efficiency, and promoting sustainable land use practices. International agreements such as the Paris Agreement, which aims to limit global warming to well below 2 degrees Celsius above pre-industrial levels, provide a framework for countries to work together to combat climate change.

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Objectives of the Study

The Objective Of this study is to find out:

- The causes of climate change on environment.
- To find out the political, social and environmental dimensions of climate change.
- To promote the energy efficiency and reducing greenhouse gas emissions.

Research Methodology

This study is basically based on secondary data and resources. The data is collected from various resources like articles from journals, websites, newspapers, various reports published by different institutions and organizations.

Review of Literature

Climate change is one of the greatest social and environmental challenge of the twenty first century. In this paper we offered a systematic review of the political social and environmental literature of climate change. There is a strong scientific consensus that anthropogenic climate change is happening and that is impacts can put both ecological and human systems. The literature on the political and social dimensions of climate change is rich and diverse, reflecting the complex nature of the issue itself. As climate change continues to have profound impacts on human societies and ecosystems, understanding these dimensions will be critical for developing effective policies and strategies for mitigating and adapting to its effects.

Political Dimension

Climate change is a complete issue that has many political Dimensions. At its core, climate change is a problem that effects everyone on the planet, and it requires collective action and cooperation to address. However, different countries and political groups often have different perspectives on the issue and this can lead to disagreement and conflict over how to respond.

One of the key political Dimensions of climate change is the role of government in addressing the issue. Many argue that governments need to take a leading role in reducing greenhouse gas emissions and transitioning to a low carbon economy. This can involve implementing policies such as carbon pricing, renewable energy mandates and regulations on emissions from industry and transportation.

Another political dimensions of climate change is issue of global equity and justice. Developing countries often argue that developed countries bear a greater responsibility for addressing climate change, as they have historically been the largest emitters of greenhouse gases. They may also argue that developed countries should provide financial and technological assistance to help Developing countries transition to a low carbon economy and adapt to the impacts of climate. Finally, there is also a political dimensions to the issue of climate denialism. Some politicians and interest groups may deny the scientific consensus on climate change or down play its severity in order to protect the interests of fossil fuel industries or to appeal to certain political constituencies.

Overall, the political dimensions of climate change are complex and multifaceted. Addressing this issue will require a coordinated effort from governments, civil society, and the private sector, as well as a commitment to global cooperation and equity.

Social Dimensions of Climate Change

Climate change has significant social dimensions that affect different communities and individuals in various ways. These social dimensions are primarily driven by the unequal distribution of the effects of climate change, which often fall disproportionately on marginalized communities, especially in low- and middle-income countries.

- **Environmental Justice:** Climate change exacerbates environmental injustices by disproportionately impacting vulnerable communities such as indigenous peoples, low-income neighbourhoods, and communities of color. These groups often experience higher rates of exposure to environmental hazards, such as air pollution and extreme weather events.
- **Human Health:** Climate change affects human health in numerous ways, including through the spread of diseases, heat waves, and natural disasters. These health impacts are not distributed equally, with marginalized communities being at higher risk of exposure and adverse health outcomes.

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- Migration: Climate change can lead to forced migration as communities are displaced by environmental disasters such as floods, hurricanes, and droughts. This can exacerbate existing social inequalities, leading to increased poverty, food insecurity, and conflict.
- **Gender:** Climate change also has gender dimensions, with women often bearing a disproportionate burden of its effects. For example, women are more likely to be responsible for food and water collection, and they may have limited access to these resources in the context of climate change.
- Economic and Social Disruptions: Climate change can also lead to significant economic and social disruptions, especially in low-income countries, where many livelihoods are dependent on natural resources. This can lead to increased poverty and food insecurity, exacerbating social inequalities.

Addressing these social dimensions of climate change requires a comprehensive approach that takes into account the diverse needs of affected communities and individuals. This can include measures such as promoting equitable access to resources, supporting community-based adaptation strategies, and integrating climate resilience into social policies and programs.

The Environmental Impacts

Climate change is a complex global phenomenon that affects various environmental dimensions, including:

- **Temperature:** Climate change is causing global temperatures to rise, resulting in extreme heat waves and increased frequency of high-temperature events. Rising temperatures can also cause melting of glaciers and ice sheets, which contributes to rising sea levels.
- **Precipitation:** Climate change is causing changes in precipitation patterns, resulting in more intense rainfall in some regions and droughts in others. This can lead to flooding, landslides, and crop failures, which can have a significant impact on the environment and human societies.
- **Oceans:** Climate change is causing changes in the chemistry of the oceans, such as ocean acidification, which can have devastating impacts on marine ecosystems. Rising sea temperatures also result in the death of coral reefs, which are home to a significant amount of marine biodiversity.
- **Biodiversity:** Climate change is causing changes in the distribution and abundance of species, leading to the loss of biodiversity. As the climate changes, some species will be unable to adapt to the new conditions, and their populations will decline or go extinct.
- **Natural Disasters:** Climate change is also exacerbating the frequency and intensity of natural disasters, such as hurricanes, typhoons, and wildfires. This can result in loss of life, damage to property, and displacement of people from their homes.

All these environmental dimensions are interconnected and have far-reaching impacts on the planet's ecosystems, human societies, and economies. Addressing climate change requires a comprehensive and coordinated effort to mitigate its impacts and adapt to the changes already underway.

Conclusion

Climate change is a significant and pressing global issue that is causing widespread impacts on the natural world and human societies. The scientific consensus is that the Earth's climate is warming rapidly due to human activities, primarily the emission of greenhouse gases like carbon dioxide and methane from the burning of fossil fuels, deforestation, and other land-use changes. The consequences of climate change include rising sea levels, more frequent and intense extreme weather events such as heatwaves, droughts, floods, hurricanes, and wildfires, the loss of biodiversity, and the spread of infectious diseases. These impacts are already being felt around the world and are expected to worsen in the coming decades.

To mitigate and adapt to climate change, it is essential to reduce greenhouse gas emissions and transition to a low-carbon economy, as well as to invest in sustainable infrastructure and practices that enhance resilience to climate impacts. Climate change is a complex and multifaceted challenge that requires global cooperation and action, involving governments, businesses, and individuals alike. In conclusion, addressing climate change is one of the most pressing issues facing humanity, and urgent action is needed to mitigate its impacts and ensure a sustainable future for the planet and all its inhabitants.

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