



Original Article

Climate Change Mitigation and Adaptation Strategies

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Manuscript ID:

IBMIRJ -2025-020815

Submitted: 10 July 2025

Revised: 20 July 2025

Accepted: 10 Aug 2025

Published: 31 Aug 2025

ISSN: [3065-7857](https://doi.org/10.5281/zenodo.17129410)

Volume-2

Issue-8

Pp. 55-56

Aug 2025

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Quick Response Code:



Web: <https://ibrj.us>



DOI: 10.5281/zenodo.17129410

DOI Link:

<https://doi.org/10.5281/zenodo.17129410>



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Abstract

The environmental factors are active in the surrounding like sunlight, wind, precipitation and humidity are dynamic factors in the weather. these factors affect the environment on the earth as well as all living thing, since the creation of the earth there have been continuous processes in earth atmosphere and weather. by observing the continuous changes in the climatic elements. the element which can provide the need of man and they use of large scale.

Environmental issues are a growing concern in today's world all the countries including India are facing excessive environmental issues. The conclusions drawn after studying the Environmental issues. Climate factor is of utmost importance in the study of the environment. the factors affected like air temperature, air pressure and visibility. Climate changing factors affected living organism & earth surface. With the developed of human beings, number of human activities increased. Various natural and manmade changes in air, water, and soil. the harmful elements to mix with the atmosphere changes in natural environment. Natural cycle disorder. Due to the increase, various type of particulate and air borne pollutants were mixed into the atmosphere. due to this the air quality in the earth atmosphere deteriorated. Its adverse effects in environment. It is being seen in human as well as all living creatures made by environmental degradation pollution. For climate change to occur different factor are responsible. for ex. Due to the industrial revolution many industries started in the world. In these industries increases temperature and pollution. different type of chemical element is use in industries; pollutant factor created. this polluted air had an adverse effect on the climate. the greenhouse gases affected the temperature and climate. Similarly, due to deforestation and desertification increase the temperature so, rainfall density is low. climate change is imbalances in precipitation on earth, temperature increases. It has created many challenges like melting of glaciers, rising sea level, increases in environmental disasters, outbreak of new diseases, increases incidence of skin diseases, adverse effects on living organisms. If we study the different gases in the atmosphere, we realize that the level of carbon dioxide gas continuously increases day by day.

Keyword: Issues, degradable, deforestation, desertification, resources, adaptation, mitigation.

Introduction

Climate change refers to long term shifts in temperatures and weather patterns. Climate change affects everyone, but the most vulnerable population, who have contributed the least to the problem, are often the hardest hit. Addressing climate change is crucial for protecting our environment, health, and future generation. Cutting down forests reduces the number of trees that can absorb carbon dioxide, increasing the amount of this greenhouse gas in the atmosphere. Certain industrial activities release greenhouse gases, including methane and nitrous oxide, which contribute to global warming. Factors that increase the temperature of the earth industry and transportation cause air pollution.

The earth average surface temperature has increased, leading to more frequent and severe heat waves. Increased temperature contributes to more intense and unpredictable weather pattern, including hurricanes, floods, and drought. Melting ice cap and glaciers, along with the thermal expansion of sea water, are causing sea level to rise, threatening coastal communities. Many species are struggling to adapt to the rapid changes in their habitats, leading to a decline in biodiversity. Climate change can exacerbate health issues, such as respiratory problem due to increased air pollution, and the spread of diseases as warmer temperatures expand the range of disease carrying insects.

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How to cite this article:

Kotkar, K. A. (2025). Climate Change Mitigation and Adaptation Strategies. *Insight Bulletin: A Multidisciplinary Interlink International Research Journal*, 2(8), 55–56. <https://doi.org/10.5281/zenodo.17129410>

There are various factors responsible for climate change. These climate changes create adverse environmental impact on man and environment. It is very important to study the climate change in detail the understanding climate change has evolved significantly over the countries with key milestones the progress of scientific knowledge.

What is climate Adaptation and Mitigation –

Climate change is a natural phenomenon. This phenomenon has been happening since the creation of the earth. But due to industrial revolution, this has changed a lot. Due to the industrial revolution, various toxic gases were freely released into the atmosphere. Due to this, a big problem like pollution started to arise and due to this, many phenomena like climate change have to be faced by human beings. different factors contribute to climate change. In the various industries running in the industrial estate, chemical agents are used, the chemical agents polluted the environment. Due to these harmful gases, families are facing climate change. If the discharged pollutants do not rise to high altitudes, they remain in the lower atmosphere and thus increase the level of pollution in the lower wells.

The greenhouse effect is largely responsible for the increase in temperature on earth because carbon dioxide and other greenhouse gases released due to urbanization, industrialization and other causes accumulate in the lower layer of the atmosphere, causing the temperature to rise and its effect on climate change and living organism. Due to population growth, the problem of deforestation is being faced on a large scale. This increases the amount of heat absorbed by the surface. the surface due to gravity absorption resulting in an increase in temperature. Also, due to desertification there has been a decrease in rainfall. Due to greenhouse effect and various pollutants, the ozone layer in India is getting depleted.

Due to this, the ultraviolet rays from the sun reach the earth, causing many diseases. Many people are suffering from diseases like cancer. It also appears that climate change is causing seasonal changes in melting of ice sheets, due to increased precipitation. Rainfall seems to be decreasing day by day. The effects of climate change on wind system are also change.

Adaptation and mitigation are important strategies to address the global challenges of climate change adaptation involved action to prepare for and adjust to both the current effect of climate change and predicted impacts it includes implementation resilient learns strategies and practices that reduce vulnerability and enhance the capacity to deal with climate related risks. on the other hand, mitigation involves efforts to reduce greenhouse gas emissions it includes action like transferring to clean energy sources improving energy efficiency and promoting sustainable practises.

Adaptation and Mitigation Related Concepts-

1. Carbon sequestration
2. Ocean carbon sequestration
3. Geological carbon sequestration

Conclusion:

Today, the environmental issues grow up. Many climatical element are change and exploded pollutant factor, climate change is causing a large scale of degradable in the ecosystem, so many environmental problems are being faced human. If we to stop the changes in the environment issues to aware human banging.

Acknowledgment

The author sincerely expresses gratitude to the institution and colleagues for their valuable guidance, encouragement, and support throughout the completion of this research. Special thanks are extended to the respondents and community members whose participation made this study possible.

The author also acknowledges the contributions of scholars and researchers whose works have provided the theoretical foundation for this paper. Finally, heartfelt appreciation goes to family and well-wishers for their constant motivation, patience, and encouragement during this academic journey.

Financial support and sponsorship: Nil

Conflicts of interest

The authors declare that there are no conflicts of interest regarding the publication of this paper.

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