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Perspective

Journal of Climate Change and Pollution

Choking Skies: The Twin Crisis of Climate Change and Pollution

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Received: September 05, 2025; **Manuscript No:** JCCC-25-7450; **Editor Assigned:** September 08, 2025; **PreQc No:** JCCC-25-7450 (PQ); **Reviewed:** September 09, 2025; **Revised:** September 25, 2025; **Manuscript No:** JCCC-25-7450 (R); **Published:** November 06, 2025.

Citation: Jane V (2025) Choking Skies: The Twin Crisis of Climate Change and Pollution. J. Clim. Change Pollut. Vol.1 Iss.1, November (2025), pp:13-14.

ABSTRACT

In the 21st century, the phenomenon of climate change, along with its environmental repercussions, poses the greatest crisis the world has ever had to face. In large part caused by the phenomenon of climate change, pollution continues to cause further climate change. This study examines the causative factors of, the consequences resulted from, and attempts to alleviate the dual problem of pollution coupled with climate change and the need for worldwide collaboration to find sustainable solutions.

Keywords: Climate change, Air pollution, Greenhouse gases, Global warming, Sustainability, Environment

INTRODUCTION

Environmental challenges issue from increasing average temperatures and declining air quality. These two challenges can be treated separately and then together. Individually, climate change and air pollution might be analyzed separately. However, air pollution emission and climate change are interwoven. When air pollution from greenhouse gas emissions is added to the atmosphere, climate change accelerates. Simultaneously, climate change aggravates the air pollution problem by creating conditions for wildfires, severe heat episodes, and extreme weather. Intensification of the issues at hand is called the climate-pollution nexus and forms the basis of this interwoven approach. The problem requires solutions.

DESCRIPTION

The Link Between Pollution and Climate Change

Pollution caused by gases like carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O) is responsible for worsening global warming. Greenhouse gases like these trap heat in the atmosphere, resulting in global warming. Air pollutants like black carbon and tropospheric ozone heat the atmosphere even more and endanger humans' health. But climate change also impacts pollution. For instance, higher temperatures increase the formation of tropospheric ozone, a harmful air pollutant. In the same way, climate change-induced prolonged droughts and wildfires release huge quantities of smoke and particulates that seriously impact the air quality of far-off places.

Impacts on Health and the Environment

The consequences of worsening climate change and air pollution are very serious. The World Health Organization (WHO) estimates that air pollution a factor in about 7 million deaths each year. Polluted air also causes many problems such as respiratory diseases, heart problems, and diseases of the mind. Climate change also threatens food and water security, lowers biodiversity and affects climate inequalities. Damaging rain as a result of \ pollution damage ecosystems, particularly forests and waters. The marine environment and coral reefs are also at risk from acid rain and used of the water. Millions of people are also at risk from heat waves and floods. Extreme weather (hurricanes) also destroys people from their homes.

Mitigation and Policy Measures

Addressing this dual crisis simultaneously will take new technologies, new policies, and new individual behaviors. The shift from fossil fuel to renewable sources of energy, specifically solar, wind, and hydroelectric, will reduce greenhouse gas and air pollution. Governments need to set stronger emission limits for industries and vehicles, implement energy efficiency, and support sustainable infrastructure. Globally, Agreements such as the Paris Climate Accord seek to limit the rise in temperature, while inequities stay and polluting technologies are used. The reduction of local pollution through urban green spaces, public transport improvements, and waste management are all positive. Lastly, public information campaigns motivate consumers to make responsible choices.

CONCLUSION

Addressing Climate Change and Pollution, One Stride at a Time The intertwined issues of climate change and pollution can only be resolved with a unified approach. They require scientific research, international cooperation, and political willpower. The world can clear a path towards a safer and more sustainable future if we tackle the root cause of both crises, which is the unsustainable industrialization and consumption. The sky that is choked with heat and smog can once again be renewed.

CONFLICT OF INTEREST

There is no perceived conflict of interest that needs to be disclosed as far as the author is concerned regarding the publication of this article.

ACKNOWLEDGEMENTS

Thanks to all of the environmental researchers, campaigners, and organizations around the world who continue to educate and advocate on the need to attain sustainability.