

THE THREAT OF GLOBAL WARMING and WAYS TO COUNTER IT

OUTLINE

1. INTRODUCTION

1.1 HOOK STATEMENT By polluting the oceans, not mitigating CO₂ emissions and destroying our biodiversity, we are killing our planet. Let us face it, there is no planet B." — Emmanuel Macron, President of France.

1.2 General Statement

1.3 THESIS STATEMENT: It poses serious threats to the environment, economy of a nation, disrupt ecosystem and human survival and we must cope up with these threats by promoting use of renewable energy sources, reducing the pollution of cities, implementing climate change agreements, manufacturing genetically engineered crops and by initiating global reforestation campaigns.

MAINBODY

- 2.1 Meaning of global warming
- 2.2 Assessing current status of global warming in world.

3- How has global warming becoming threat to the environment?

3.1- Threat of global warming to environment

3.1.1- Rise in the Earth temperatures
WMO confirms 2024 as the hottest year of the history -

3.1.2- Melting of glaciers and rise in sea level.

- WMO has witnessed the largest three year loss of glaciers mass on record from 2022-24.
- Loss of glacier in Southeastern Alaska in 2025.

3.1.3- Droughts and floods

- Flood of 2022 and 2025 in Pakistan

- Pakistan has witnessed recent droughts in 2018 and 2019.

3.2- Threats of global warming to economy

3.2.1- Damage to GDP

According to World Economic Forum Climate crisis costs the world 12% in GDP for every 1°C temperature rise.

3.2.2- Spending on rebuilding
Study estimates that damage caused by extreme weather costs \$16m an hour.

3.3- Threats of global warming to animals

3.3.1- Destruction of environmental habitats due to the migration of animals.

The migration of Indian fish to the Antarctic ocean.

3.4- Threats of global warming to human beings

3.4.1- Loss of livelihood.

3.4.2- Destruction of homes and displacement.

According to report issued by Al-Jazeera, over four million people in Punjab only were

affected displaced due to
2025 flood in Paterson.

3.4.3- Spread of disease -

Nervous diseases like diarrhoea,
malaria, dengue and cholera
etc. spread due to flood

4- Ways to counter global warming

- 4.1 By promoting the use of renewable energy resources
- 4.2 By reducing the production of GHGs-
- 4.3 By producing genetically engineered crops-
- 4.4 By implementing climate change agreements in its true spirit-
- 4.5 By initiating global reforestation campaign.
- 4.6 By controlling population explosion.
- 4.7 By effective use of social media for promotion of Green Earth

5 Conclusion

Thesis restated

By polluting the oceans, not mitigating CO₂ emissions and destroying our biodiversity, we are killing our planet. Let us face it, there is no planet B." — Emmanuel Macron, President of France. Global warming is a reminder of the interconnectedness of human actions and natural systems. If not addressed collectively, it will reshape weather patterns, disrupt food chains and leave future generations to bear the burden of inaction. Global warming has emerged as one of the greatest challenges facing humanity in the 21st century. Its consequences are not confined to a single nation or region but are being felt across the globe. It poses serious threats to the environment, economy of a nation, disrupt ecosystem and human survival and we must cope up with these threats by promoting use of renewable energy sources, reducing the production of GHG, implementing climate change agreements, manufacturing genetically

engineered crops and by initiating global reforestation campaign.

Global warming is a gradual increase in the earth's temperature generally due to the greenhouse effect caused by increased level of carbon dioxide, CFCs and other other pollutants. According to the inter-governmental Panel on Climate Change (IPCC) report, the rise in the Earth's overall temperature, global warming is so high that it might reach 1.5° degrees Celsius by 2050. The temperature has been increasing since the industrial revolution. As a result, there occurs a rise in sea level due to the melting of glaciers, and on analysing critically, none of its effect is useful for living things because of the rise in the number of disasters, like the floods. However, Scientists have declared that the main cause of global warming remains the emission of greenhouse gases (GHGs) - the direct result of the industrial revolution. Thus, the rise in the

temperature of the world is called global warming.

Currently, the menace of global warming has become a great concern for living things, taking them to the brink of destruction.

Moreover, it has, nowadays, started to express itself in multiple forms, such as the rise in number of diseases and natural disasters that need to be minimized in

all circumstances. According to the World Research Institute (WRI), the temperature of the Earth has currently risen by 1.1 degrees Celsius since the industrial revolution. Therefore, a

number of countries have adopted certain measures, like the ten billion tree programme by

Pakistan, The UK, France, Norway are some of the countries that have legally committed to reach net zero emissions by 2050, to minimize the impacts of global warming.

Global warming has threatened the Earth multi-dimensionally. Moreover, some of them are of great concern to human beings, and the first and foremost threat in this context is to the environment. Global warming is constantly rising the Earth's temperature. The World Meteorological Organization confirms that 2024 was the warmest year of the history. Due to the rise in temperature, the glaciers are melting and sea level is rising constantly. According to WMO, 2022-24 witnessed the largest three year loss of glaciers mass on record. In many regions, what used to be called glaciers "eternal ice" will not survive the 21st century, according to the reports from the WMO. In 2025, a retreating glacier revealed a new island in Alaska this summer, as lake water filled in to surround a land mass once hugged by ice. The global warming is not only causing glaciers to melt but also

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some other disasters like floods, draughts. The number of natural disasters has not only affected developed nations like Japan but has also destroyed underdeveloped nations such as Pakistan. According to the United Nations Office for the Coordination of Humanitarian Affairs, ~~thirty~~ thirty-three million people have been affected by the floods of August 2022 in Pakistan. According to Al-Jazeera, the UN said about six million people in all have been affected by the cloudburst and the a heavier than usual monsoon, which landslides and massive - flooding since June 26, 2025. In the same manner, draughts also affected Pakistan badly.

According to International Water Management Institute, the draughts of 2018 and 2019 were wake up calls, with severe draughts affecting Balochistan and Sindh resulting in large scale crop loss and displacement. Thus, if the rise in the temperature of the world keeps on increasing, similar to the history,

several nations will have to demise in the near future.

Similarly, economy of multiple nations has come under threat due to global warming. The disasters not only take lives but also washes agricultural areas, which can easily be witnessed from Pakistan's Planning Minister's statement that more than ten-billion dollars worth of damage has been done by the floods of 2022 and the flood of 2025 caused loss of \$2 billion. The climate crisis also cause severe damage to the GDP. According to World Economic forum, climate crisis cost the world 12% in GDP for every 1°C temperature rise. The disaster also cause severe damage to the infrastructure. According to Natural Disaster Management Authority (NDMA), at least 2521 buildings were damaged, including 701 completely destroyed across multiple districts in KPK over

437 kilometres of roads and
52 bridges swept away
during flash floods. Now, a
large amount will be spent
to cover this loss which
ultimately put a burden on
economy of Pakistan. Study
estimates that damage caused
by extreme weather cost
\$16m an hour. Thus, the higher
the temperature of the world,
the more burden the economy
will bear -

In addition, global warming has
become a major cause of
the migration of animals and
birds. Moreover, every habitat
has a particular type of species
and all the necessities of the
animals of that species are
fulfilled by nature in that particular
region. However, it has been
observed that a number of birds
have left their habitats due
to the rise in temperature and
have migrated to the cooler
regions of the world, causing

disturbance in the equilibrium of nature. A better example is the migration of certain fish species from the Indian Ocean to the Antarctic regions, to the report of 2010. Also, the rise in temperature and heatwaves causes rapid deaths of animals which may cause the species to be extinct after sometime. Thus, if the rise of temperature continued at same rate, there might be no beautiful creature after some time.

Furthermore, the global warming is not only causing harm to animals and birds but also to human beings. The climate effects caused by global warming causes loss of livelihood. People ~~lose~~ lose their houses, their jobs, their precious assets and other sources of income during floods. Similarly, in case of droughts, people move from affected areas leaving their houses, assets and jobs. The ~~climate~~ ~~effects~~ ~~caused~~ More than 12,500 houses have

damage and 6,500 livestock lost in addition to the widespread destruction of crops across the country, according to National Disaster Management Authority. According to the report issued by Al-Jazeera over four million people in Punjab alone were affected displaced due to 2025 flood. The loss of houses and displacement badly affect people and their lives. The natural disasters eliminates not only cause loss or displacements but also spread of various diseases like water-borne diseases (cholera, typhoid and diarrhea), vector-borne diseases (such as malaria and dengue) and skin infections (bacterial and fungal). According to National Institute of Health, around 1400 acute watery diarrhea cases, 200 malaria cases and 50 dengue cases were reported in 2022. Thus, it is as clear as crystal that global warming has become a serious threat in the contemporary world.

After analyzing the drastic threats of global warming, it becomes pretty important to suggest some measures in order to counter the menace. Indeed the first step in this regard can be use of renewable energy resources, like air, water, and sun that are free from the release of (GHGs) instead of non-renewable energy resources such as coal, natural gas and oil producing a large amount of GHGs. Initiatives for this purpose has already been taken both nationally and internationally. Renewable energy and the Energy Efficiency (REE) project in Pakistan is implemented by UNIDO developing and promoting a market environment to stimulate investment in renewable energy sources.

Similarly, other similar steps include the conversion of automobile cars, a major contributors of GHGs into electric cars. Moreover, both the developed and under developed nations are trying their best to shift their

automobile industries over the electric cars and Pakistan has already played its due role by launching MG ZEV, an electric car, on 14th Aug 2022. These cars enable the masses to travel without producing any gas leading to global warming.

Additionally, the impacts of global warming can be diminished through the production of genetically engineered crops able to bear droughts and salinity extremes.

Indeed, the current conditions have not remained suitable for agricultural producers facing extreme droughts and salinity.

So, after inventing several genetically engineered that are able to bear extreme droughts and salinity, like Glycine Max (soybean). It would become possible to counter global warming and fulfil agricultural demands efficiently.

Moreover, global warming can also be countered through the implementation of different climate accords signed by number of

countries. The Paris climate accord is an example of such an accord that was signed by 190 countries. However, no developed nation has followed the terms and conditions of the accord, due to which there occurs a constant rise in greenhouse gases and ultimately global warming. And due to this negligence Pakistan ranks among the top 10 most climate vulnerable nations, but it contributes less than 1% of global emissions. Thus, if the accord is implemented in its true spirit, the developed nations would limit the removal of GHGs and ultimately global warming.

Furthermore, a global reforestation campaign can also grab the menace of global warming in its palm. Trees serve as the sink of carbon dioxide and emit oxygen. Moreover, the Amazon forests are usually termed the lungs of the Earth due to provision of twenty percent oxygen worldwide.

worldwide - But they are constantly used for different purposes like paper and fireworks, causing a fall in the number of trees and oxygen levels, which overall raises global warming. Thus, there should be worldwide ~~campaign~~ campaign for reforestation similar to the ten-billion tree program of Pakistan.

In addition to that, getting control over the constant rise in population has become a must to control global warming. The number of people are increasing by each passing day, which directly imposes a burden on the resources of the world like the use of coal, oil and other energy sources and is directly proportional to the rise in GHGs and global temperature. It is impossible control rise in temperature unless every state worldwide collaborates with one another.

Above and above that, the threat of global warming can also be countered when the

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masses become fully aware of the threats of global warming. And making them aware is only possible through the proper use of social media, like Twitter, Facebook and whatsapp, for everyone in the contemporary world uses social media. Thus to counter global warming, it has become mandatory to publicise the threats and the possible remedies of global warming worldwide.

After an insightful investigation, it is clear to describe that global warming is a real threat on the blue planet Earth. Its impacts like melting of glaciers, floods and droughts have become drastic and intolerable. But it can be resolved through the combined efforts of all the developed and the underdeveloped nations.

In short, global warming has become a monster for human beings. Moreover, it is

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becoming more severe with each passing day and has started threatening life on Earth through multiple impacts such as melting of glaciers and increasing number of disasters. The menace has not adopted the worst shape in a day or night, rather, it is the by-product of industrial revolution. However, to curb it, a number of measures nationally like planting 10 billion trees and internationally such as the adoption of Paris Agreement. Apart from it, there are still other suggestions like the use of renewable energy resources, that adoption can nullify the impacts of the menace for some time.
