

The threats of Global warming and the ways to counter it.

Outline:

A. Introduction:

There are many threats of global warming, such as rising sea levels, threats to coastal populations, and rising conflict. Despite this, there are different ways to counter global warming, such as increasing forest cover, promoting sponge cities, and raising awareness.

B. Threats of Global warming

a. Rising sea level

case in point: According to NASA between 1970 and 2023, 96% of countries with coastlines have experienced sea level rise.

b. Threat to life by increasing temperature

case in point: According to Pakistan Journal of Medical and Health sciences in 2024 nearly 700 people died in June during terrible heat waves.

c. ~~Increasing dry spell and droughts~~

case in point: According to UNICEF, drought in Guatemala 2023, affects 700 percent of

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the country's landmass and poorest 54 percent of the population.

d. Threat to coastal population

Case in point: According to UNEP, 51 percent of the world's population lives within 100 km of the coast.

e. Increasing frequency of disasters

Case in point: According to Unicef, the 2022 flood in Pakistan affected 33 million people and damaged infrastructure.

f. Agricultural effects

Case in point: According to NASA, maize crop yields are expected to decline 24%. Also, ~~increasing~~ ~~to~~ ~~decline~~

Also intensified

g. Rising conflicts

Case in point: Indus-water treaty conflict between India and Pakistan is increasingly aggravated by climate change.

C. Ways to counter Global warming

a. Stabilizing the levels of GHGs

Case in point: Renewable energy sources such as solar, wind, and hydro-power.

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b. Increasing Global Forest cover

Case in point: Afforestation and reforestation.

c. Promotion of sustainable transport

Case in point: public transport ~~in~~ in Pakistan
like Metro, Green line and hybrid cars, E-bikes.

d. Promotion of sponge cities

Case in point: 30 sponge cities in China
to manage the urban stormwater.

e. Sustainable industrialization

Case in point: Installation of air pollution
control technologies and use of biotrickle and
Catalytic reactor methods.

f. Implementing Environmental commitment

Case in point: The theme of COP29, 2024
is to Green world and Paris agreement,
Kyoto protocol

g. Environmental education awareness

Case in point: Through schools, colleges, media
and scholars

D. Conclusion:

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Is what industrialization has done over the years with

Global warming is the long-term heating of Earth's surface observed since the pre-industrial period due to human activities, primarily fossil fuel burning, which increased heat-trapping greenhouse gas levels in Earth's atmosphere. This term is not interchangeable with the term "climate change."

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Following are the threats of global warming. To begin with, due to global warming sea level is rising every year.

Moreover, global warming presents a fundamental threat to human health by increasing temperature which is causing extreme heat waves.

Furthermore, global warming is increasing the dry spell and droughts. Likewise, coastal populations are increasingly facing global threats from global warming such as flood, ocean warming.

Despite threats, there are also several ways to counter global warming.

First of all, there is need to stabilizing the levels of green house gases to control the global warming. Moreover, To counter the global warming, global forest cover

is being increased through afforestation. Additionally, global warming is also controlled by promoting sustainable transport. There are many threats of global warming such as rising sea level, threats to coastal populations, and rising conflict. Despite this, there are different ways to counter global warming, such as increasing forest cover, promoting sponge cities, and raising awareness.

To begin with, rising sea levels is the foremost threat of global warming. Global warming is causing global mean sea level to rise in two ways. First, glaciers and ice sheets world wide are melting and adding water to the ocean. Second, the volume of the ocean is expanding as the water warms. As the ocean gets warmer each year, it expands raising the sea level. According to NASA between 1970 and 2025, 96% of countries with coastlines have experienced sea level rise. Thus, global warming is the main cause of sea level rises.

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In addition to this, global warming is also a threat to life by increasing the temperature of Earth. Greenhouse gases are trapping more heat in the Earth's atmosphere, which is causing average temperature to rise all over the world. The rise in temperature causes severe weather conditions and affects human life. It can increase the risk of heat-related illness, kidney diseases and water-borne illness. According to Pakistan Journal of Mental and Health Sciences, in 2024, nearly 700 people died in June during terrible heat waves. Thus, the increase in temperature badly affects human life.

Moreover, global warming is also a threat because it is increasing the dry spells and droughts. Drought is a prolonged dry period in the natural climate cycle that can occur anywhere in the world. Rising temperature caused by climate change is making already dry regions drier and wet regions wetter. In dry regions, when temperature rises, water evaporates more quickly, and this increases

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the risk of drought or prolonged periods of drought. According to the UNDRR, drought in Guatemala 2023, affects 700 percent of the country's landmass and poorest 54 percent of the population. Thus, the droughts due to global warming also affect human life.

Furthermore, global warming is also a big threat to coastal population. A coastal population is a population that lives in a coastal area, which is the land that borders a sea or ocean. Global warming is driving sea-level rise and intensifying coastal storms, resulting in more frequent flooding. The extent of coastal flooding has increased over the past 20 years as a result of sea-level rise and coastal storms. According to the UNEP, 57 percent of the world's population lives within 100 km of coast. Therefore, climate change is also becoming a threat to coastal population.

Likewise, global warming is increasing the frequency and intensity of disasters.

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Climate change is affecting the hydrological cycle and increasing the frequency and intensity of storms. Rising temperatures and warmer seas mean more water vapor evaporates into the atmosphere, providing fuel for hurricanes and torrential rain. According to the UNICEF, the 2002 flood in Pakistan affected 33 million people and damaged infrastructure.

Therefore, global warming is contributing to an increase in the frequency and intensity of disasters.

Moreover, global warming is also emerging as a threat to agriculture. Climate change is likely to contribute substantially to food insecurity in the future, by increasing food prices, and reducing food production. Rising temperatures and carbon dioxide concentrations may increase ^{some} crop yields, but the yields of major commodity crops are expected to be lower due to global warming. According to NASA, maize crop yields are projected to decline globally. There is also an increase in locusts.

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attack due to global warming. Therefore, global warming is also affecting agriculture.

In addition to this, global warming is a major driver of rising conflict. The stresses on natural resources undermine the capacity of nations to govern themselves, and increase the chances of conflict. The

intensifying climate change will likely increase the future risk of violent armed conflict

within countries. Indus - water treaty conflict

between India and Pakistan is increasingly aggravated by climate change. Thus, there

is increase in conflicts between countries due to global warming.

Notwithstanding the threats of global warming, there are several ways to counter it, which are given below:

To begin with, in order to mitigate the global warming, it is necessary to stabilize greenhouse gas emissions. The reducing climate change involves reducing the flow of heat-trapping greenhouse gases into the

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atmosphere. To reduce greenhouse gas emission, there is need transitioning to renewable energy. Renewable energy sources like solar and wind power typically do not produce GHG emissions when generating the electricity. Renewable energy is often associated with energy-efficient technologies. Therefore, renewable energy sources contribute to stabilizing greenhouse gas levels.

In addition to this, global forest cover contributes to countering global warming.

Afforestation and reforestation are strategies that can help to counter global warming.

Afforestation is the process of establishing forests in areas that were previously not forested. And

reforestation is the process of replanting trees in areas that were previously forested.

Forests help stabilise the climate. They regulate ecosystems, protect biodiversity, play an integral part in the carbon cycle, and can help drive sustainable growth. Therefore, global

forest covers play an important role in

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counter global warming.

Moreover, to mitigate the effects of global warming, it is essential to promote sustainable transportation. Sustainable transport refers to ways of transportation that are sustainable in terms of their social and environmental impacts. Sustainable transportation seeks to provide efficient, safe and accessible means of transport for all, while significantly reducing the environmental footprint. This involves a shift from fossil-fuel dependent vehicles to cleaner modes of transport and optimizing public transportation system. Public transport in Pakistan like Metro, Green line, hybrid cars and E-bikes. Thus, sustainable transport helps in reduce global warming.

Furthermore, promoting sponge cities is essential to combat global warming. Sponge cities are designed to soak up the excess storm water without becoming over-saturated. Sponge cities incorporate vegetation, green roofs, and urban forests, which absorb heat and

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cool the environment. sponge cities harvest and store rainwater, reducing reliance on energy-intensive water treatment and pumping systems. There are 30 sponge cities in China to manage the urban stormwater. Thus, sponge cities have the ways to counter global warming.

Likewise, sustainable industrialization is essential to mitigating the effects of global warming. sustainable industrialization refers to the transformation process towards a desirable industrialized economy characterized by rapid social development and environmentally sound manufacturing all at the same time.

sustainable industrialization reduces carbon emissions, fosters innovation and supports long-term economic growth without depleting natural resources. The industry can be made sustainable by air pollution control technologies, using bioreactors and catalytic reactor methods. Therefore, sustainable industrialization also helps in combating global warming.

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Moreover, implementing strong environmental commitments can help reduce global warming. Environmental commitments include actions and policies to protect the quality of the natural environment. By implementing commitments reduce the concentration of greenhouse gases, stabilize global temperatures and mitigate climate change impacts. The theme of COP 29, 2024 is to Green world, Paris agreement and Kyoto protocol are the environmental commitments. Therefore, strong environmental commitments can significantly contribute to reducing global warming.

Last but not the least, environmental education and awareness are crucial for mitigating the effects of global warming. Environmental education raises awareness about the causes, consequences and solutions to global warming. Educates people about greenhouse gas emissions, deforestation and unsustainable practices contributing to global warming. Teaches individual and communities

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to adopt eco-friendly habits such energy conservation and sustainable consumption. Encourages students and young people to pursue careers in environmental science, policy and technology to address global warming challenges. Therefore, educational awareness also help in mitigating global warming.

To conclude this, the threats of global warming include rising sea levels and threats to coastal populations. There are also ways to counter it, such as increasing forest cover and raising awareness. There are many threats of global warming. To begin with, due to global warming, there is an increase in the frequency and intensity of disasters. Moreover, global warming is also badly affecting the agricultural crops due to increase in temperature and natural disasters. Furthermore, global warming can increase the intensity of conflict due to availability of the natural resources. Likewise, due to global warming

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there is also increases in sea levels due to thermal expansion of water. There are also many ways to counter the global warming. To begin with, to combat global warming, there is need to promote the sponge cities. In addition to this, the sustainable industrialization also helps in reducing global warming. Moreover, to mitigate global warming, there is a need to implement environmental commitments. Although there are many threats posed by global warming, there are also many ways to counter it. Implementing these measures can effectively combat global warming.

