

Topic: Global warming and our preparation to counter it:

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- D. Erosion of land: decrease the fertility of land
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## ESSAY: "GLOBAL WARMING AND OUR PREPARATION TO COUNTER IT"

"Climate change is no longer some far-off problem; it is happening here; it is happening now" - (President Barack Obama)

The Earth is the only planet which is suitable to human beings and other creatures of this universe.

The Creator of this universe balance each and everything in this planet that is beneficial both humans as well as other organisms. The sudden outbreak of temperature on the surface of land increase the

fear of death and life. Just in few decades the the existence of this universe become hotter and

hottest. According to National Oceanic and Atmospheric Administration (NOAA)

the global temperature rise  $1.5^{\circ}\text{C}$ ,

this is an alarming posture to human beings. More than 2

billions of people unable to acquire clean drinking water.

However, the anthropogenic as well as natural causes of global

warming jeopardy the lives of human beings in this

universe.

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This essay completely narrate the causes, consequence and the regional and global level of strategies to counter the menace of global warming.

To begin with the causes of global warming, there are several causes of global warming, which posed a serious threats to increase the average temperature rise on the surface of land.

According United Nations Framework Convention on climate change (UNFCCC) in 2018, fossile fuels contribute 98% of global warming. In simple world fossile fuels means the burning of oil, gas and coal. The burning of fossile fuels generate green house gases that are completely surround the world and block the sunlight to reach on the surface of land, this phenomenon create enormous difficulties to human being and other creatures of this universe. For instance the burning of fossile fuels, create toxic gases that dismentle the millions of lives in this universe.

Furthermore, the massive level of deforestation also contribute to the rise of global temperature.

Forest, Ocean and soil are the biggest carbon sink on Earth. Duke university published that deforestation is the second anthropogenic source of Carbon dioxide following fossile fuels.

According to the scientific study on climate change only Amazone forest absorbed 123 tons of Carbon dioxide and the burning or cutting of forest released 105 billions tons of Carbon. Furthermore forest is a home of three-quarter of all birds live in and around forest. The mass level of deforestation not only disturbed the human beings but, it also affect the lives of other organisms.

Similar to the above, the Inordinate use of plastic, further impurified the global temperature. According to United nation environment program (UNEP) visual feature 'Our planet choking on plastic', 98% single use plastic

are produced from fossil fuels. Furthermore, it is articulated that in 2030 it could be 1.34 gigatons per year, equal to the emission released by more than 295 new 500 megawatt coal fire power plant and in 2050, it could be 56 gigatons.

In addition, fertilizers are also an important factors that fuel to the fire. The farmers use fertilizers substances in order to grow crop well, but they unaware the implications of these toxic substances. These substances have multidimensional effects on environment like, contamination of food, water and environment as a whole. However, some extensive research prove that the use of fertilizers are profitable for short term of agricultural production but their long term affect completely vanished the fertility of land.

Likewise, the overgrazing generate 15% of green house gases. Livestock grazing eradicate small tiny plants and the vegetation on the surface of land. According to ~~the~~ International

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protection Convention (IPPC) millions of small plants were eaten by animals. The green surface of land absorbed millions of carbon and other toxic material that are detrimental to environment.

These causes not only a causes, but these have severe implication on human-beings and other organisms on the surface of land.

The first implication of global warming is the huge level of population displacements, only in Pakistan in the flood of 2022 displaced more than 33 millions of people and \$20 to 30 billion of economic and infrastructural losses. Moreover, billions of people strive for food, water and medicine facilities. The developing countries of the world faced too much difficulties to survive their lives. According to United nation more than billions of people confronted economic and health issues, people don't get proper food and medicines to mitigate or overcome the basic necessities of life.

Second more important implication of global warming is the uncontrolled melting of glaciers. Siachin Glacier has lost more than 2km of its length and 17% of its ice mass since 1989. The continuous melting down of Himalian, Hindukush and Karakoram ice mass are a dangerous gesture to Pakistan's livelihood agriculture sector. Moreover, the melting of glaciers raise the surface level of sea that cause huge level of floods and tsunamis.

As similar to the above, the continuous occurrence of flood across the globe, induce people different types of hardship like, economic, health, and infrastructural losses. Pakistan contribute less than 1% to global emission and counted among top five climatic vulnerable countries. Pakistan bear or suffer more than millions of economic losses due to natural hazards like flood and tsunamis.



Furthermore, the erosion of land, further create economic hardship. For instance, billion tons of land mass destroyed by both urban and rural floodings. Particularly developing countries depend upon agriculture, but the continuous occurrence of natural calamities in terms floods, Tsunami and wild fire completely vanished the production capacity of land and its fertility.

Last, but not least, the destruction of biodiversity are also an important problem of 21<sup>st</sup> century.

According to Australian research Committee on biodiversity, the family of "dolphins" came to distinct in oceans of Australia. The Creator of this universe proportionate each and everythings according to the life span of all creatures, but, the anthropogenic and natropogenic activities on the surface of land completely destroy the survivable of planet to creatures.

Last, but not least, Agriculture sector is the backbone of each developed and under developed countries of the world. The mass level of flooding and other agricultural diseases eradicate the capacity of agriculture production. For example, the Agriculture sector of Pakistan contribute 23% to Pakistan's GDP and engaged 84% of population. However, the sudden outburst of global warming jeopardy the potential of agriculture sector.

In order to survive in this planet, there are several strategies to overcome the menace of global warming. However, Pakistan as a developing country and ~~is~~ more vulnerable to global warming, adopt or implement such strategies that are crucial to mitigate the menace of global warming.

The "Billion Sunami tree project" is one of remarkable initiative of Pakistan, which is appreciated in the whole world. This project was successful to the some extent, but, the lack of finance and global cooperation, the ambitions

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this initiative, remain weak to complete its desired target.

The second, most cooperation of Pakistan regional as well as global level as a signatory of "kyoto protocol" and United Nation Framework Convention on climate change (UNFCCC). Pakistan, so far, completed to its assigned responsibility regarding to climate change.

The third one is "green Pakistan Initiative" the main purpose of this initiative to overcome the menace of global warming and its causes, like, flood, drought, and heat stroke. This initiative also successful to mitigate and overcome the menace of global warming.

Regional level of initiatives are appreciable to their own extent, while, the global level is also important. Several global level of strategies were implemented to offset the severeness of global warming, now these initiatives are discuss one by one. starts with the first level of global initiatives, "the Paris agreement" the

Introduction of 'Paris Agreement' in 2016 was one of the remarkable initiative to counter the menace of global warming. This initiative unite more than 180 countries top leadership, to offset the multidimensional severeness of global warming. In this agreement, various countries pledge to limit the temperature under  $1.1^{\circ}\text{C}$ . Under this agreement several small term initiatives uplifted, to regulate the global temperature.

Furthermore, the implementation of (UNFCCC) prescribe policies formulation, further strengthen the foothold of both developed and underdeveloped countries. The recent summit of 'COP 29' in Azerbaijan is under (UNFCCC) one of the remarkable initiatives, which unite more than 190 plus countries leadership. This summit assist developing countries to some extent through climate finance, the developed countries contribute \$300 annually till 2035 to fulfill developing countries need to manage environmental loss.

Additionally, "Muslim Seven Year Action Plan on climate change" was also an important initiative. It persuade the people through Islamic teaching related to climate change. This initiative unite the whole Muslim Ummah and other non Islamic countries to manage the beauty of climate change. In 2009, approximately 200 Muslim scholars, leaders, and government officials endorsed the plan during a conference in Istanbul leading to the establishment of the Muslim Association for Climate Change Action (MACCA). These initiatives underscore the commitment with in the Muslim Community to address the environmental challenge in alignment with Islamic teaching.

There are some general measurements that are also important to mitigate the intensity of climate change.

The first one is transition to renewable energy. renewable energy is one of the important mitigation effort that alleviate the catastrophe

fossil fuels. Renewable energy has multiple benefits as compared to non-renewable energy. It protects the environment from greenhouse gases and is instrumental in energy conservation.

Secondly, climate-smart agriculture is also an important strategy to counter the intensity of climate change. Climate-smart agriculture includes precision irrigation, drought-resistant crops, and agroforestry that enhance resilience and productivity. Climate-smart agriculture saves the environment from toxic materials that contaminate water, soil, and the environment as a whole.

The third one is sustainable urban planning. Most of the urban population is constructed without proper management that further adds to the fire. However, we have a solid example of the Chinese model also called "Sponge Cities" that save waste of soil and resist urban flooding. At the last, urban management is one of the strategic models.

to counter urban flooding and land protection.

Last, but not least, the grass root level of education is an important strategy to counter the menace of global warming. Develop an environmental curriculum from primary to secondary level. It create awareness about the conservation of environment among the incoming generation.

In a nut shell, global warming posed serious threat in 21st century. It jeopardizes the lives of human beings as well as other creatures in this universe. The inordinate melting of glaciers, floods, tsunami, wildfire, drought, and displacement of people, create enormous implications on the surface of land. However, it is not enough to explain the causes and consequences of global warming, it needs robust

mechanism and policies to counter the menace of global warming. Global warming is a greatest threat to incoming generation and it's necessary to adopt or implement the above mentioned strategies to counter it effectively.