

"We humans are responsible for Climate Change"

The environmental standing of the world, today, is at a critical juncture where nature has unleashed its repercussions and the inhabitants on earth are oblivious of how to go about it. Mother earth is enduring the fallouts of human civilisation in an appalling manner, and we humans must act prudently. Indeed, we, as humans, have deteriorated the ecological fabric of mother nature by contributing significantly towards its demise.

In an exceptionally globalized world of today, the rehabilitation of ^{the} world is inevitable. It is our duty, as humans, to contribute to its revamp because we are the sole reason for what the earth is going through, today. Climate change and global warming are a result of irresponsible human activity, whose intensity has forged irregular climatic patterns to prevail in numerous parts of the world. Such differences in climate are due to numerous reasons.

The foremost significant contributor is the burning of fossil fuels, which is responsible for 84% of global electricity. The world is increasingly dependant on the burning of hydrocarbons, whose production and sustenance is cheap and handy. This results in extreme carbon dioxide (CO_2) ~~emissions~~ emissions, which are trapped in the earth's atmosphere and results in an increase in the global

temperatures. Despite knowing the hazardous effects of fossil fuels, the world in general, and the middle-east and Russia in specific are engaged in a vast trade with neighbouring nations, supplying oil, gas, and coal. Most first world countries must have shifted towards renewable energy sources, but the developing nations are still heavily dependent on fossil fuels, thus, giving birth to huge clouds of carbon dioxide confining the earth's horizons to its control. The aforementioned phenomena results in the heat energy being trapped within earth's ^{atmosphere} and causes a global increase in temperature. This results in the melting of glaciers (GLOF), excessive rainfalls, and extreme flooding.

The illicit cutting of trees for illegal smuggling and domestic usage is another contributing factor that aids to environmental degradation. The inhabitants of deforesting areas, having no excess to firewood are engaged in intense cutting of trees. This causes soil erosion and disrupts the natural habitat of ~~plants~~ trees for future plantation. It contributes to global warming, and such deforested ~~veg~~ regions are more prone to natural calamities. The illegal smuggling of timber wood is a driving force in the environmental degradation phenomena. Hundreds of square miles of forests are chopped off because of the need for timber wood in industrial activities. On the contrary, the governments inundated with ~~corrupt~~ ^{corrupt} professionals ~~also~~ have turned a blind eye towards such

measures of disgrace. Humans have no regard for the preservation and conservation of natural forests that act as a shield against natural hazards and are a major source of oxygen and fresh air.

What caused intense damage during the floods that struck the northern parts of Pakistan in 2022?

The illegal constructions and the encroachments on the river bank led to the disruption in the flow of water, which caused the submergence of all the neighboring property. Such encroachments not only obstructs the water flow, but also stimulates the extinction of the aqua-life. The northern parts of Pakistan are known for their trout ~~fish~~ fish whose quantity have largely diminished as of now due to imprudent and careless behaviour of the citizens of that locality.

The aiding factor that does not limit such activities is the ignorance of the government authorities, who either don't care or are major stakeholders in such businesses that disturb the environment.

Moreover, the other significant contributors towards climate change is the greenhouse effect. The release of toxic greenhouse gases are a result of irregular human activities. The contemporary industrialized era is home to manufacturing large scale industries. These industries emit toxic gases into the air, and release toxic waste

to the waterbed. No attention is rendered to this jeopardy of time because the elite of the countries are major stakeholder and also owners of these industries; Their business is booming at the state of earth's nature. In today's race for industrial and economic development, it is necessary to shift the world's attention towards the alarming effects of climate change and curb its disastrous aftermath.

In contrast to the volatility of climate change, international organisations and world leaders have called attention to this menace and have demanded swift measures to save the world. The world is agreed on forging a two-pronged approach towards combatting climate change, i.e. Mitigation and Adaptation.

Mitigation is reducing the level of greenhouse gas emissions by limiting its sources (burning of fossil fuels) or enhancing the storage capacity of earth by preserving oceans, forest, and the soil.

The ultimate goal of the mitigation approach is to avoid significant interference of human with the earth's climate. Conversely, adaptation is learning to live in a changed climate, and efficiently tackling the ramifications of climate change; limiting its woes. The ^{developed} world is grappling with the phenomenon of climate change on warfootings, but significant augmentation needs to be carried ^{out} by the developing nations.

in order to ~~limit~~ restrict its repercussions.

To put it ~~into~~ in a nutshell, the aforementioned reasons lucidly depict that humans have been the ultimate genesis to the ecological imbalance observed today. As guardians of the soil, it is our utmost obligation to contribute to the good of the society ~~and~~ by ensuring a positive overhaul in the activities of humans to create the world a better place for all segments of the society.