

GLOBAL WARMING: CAUSES, EFFECTS AND SOLUTIONS

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"Global is burning not warming." This statement was mentioned by United Nations General Secretary, Antonio Guterres. This quotation underscores the significance of global warming. Almost every country is witnessing the ramifications of global warming in the form of hail storm, flash flood, cloudburst, and famine. The major offshoot of global warming goes incident goes back to 1952, "The Great London Smog". That covered the London for almost five days and led to 4000 instant deaths. Scientific inventions and discoveries at first, and later on, Industrial Revolutions ~~here~~ that made "The Great Britain" degraded the environment ~~badly~~. These revolution resulted into increase of human interference within the natural setting of the environment. Bit by bit, environment was being hurt from the human activities but unfortunately no one paid heed to it. currently, ^{global warming has aggravated} it is acting as an existential threat to the human souls. Global warming is not a new nor a old issue but its intensity in the recent years is aggravated. Therefore, this essay would shed light on the significance of global warming as an existential threat. Moving forward, it would highlight causes that have augmented ~~that~~ to this catastrophic. After that, it would underscore horrific and horrifying implications of Global Warming. lastly, this essay would provide some pragmatic remedial measures to combat Global Warming.

To begin with, there has been increase in natural calamities driven from global warming such as torrential rains and cloud burst. For that it is crucial to understand the significance of global warming as an extended threat. Human interferences and activities in the natural setting impacts the global warming. People ^{excessive} exploits natural resources, produces ^{more} carbon dioxide monoxide from biofuels. Global Warming is an extended threat for the mankind. ~~It is to be noted~~ In rainy seasons, individual houses are damaged, their ~~the~~ livestock wiped out and agricultural fields and ~~business~~ are submerged, and ~~business~~ operations are suspended. Hence, the blowback of global warming are foremost important to understand.

Firstly, exponential increase in population is one of the causes that have aggravated global warming. More number of humans will generate more waste and utilize more ^{scarce} resources. From those human activities more pollutants are contributed in the atmosphere. ^{Massive} ~~Huge~~ population ^{leads} requires more goods and services for their survival. Increase in demand of goods and services led to more creation of more business units that produces externalities. According to US-Census Bureau, in 1960 there was 3 billion population, in 2000 there was 6 billion, as currently, there is 8.1 billion which is expected to exceed 9 billion by the end of this decade. Population is increasing, so the negative externalities and

further damage the environment. Clearly, augmenting population is the main instigator to global warming.

Secondly, intensity of global warming is also increased because of massive deforestation. More than 10 million hectares have been deforested in the world over the past decade as per global forest watch.

Due to expansion of agricultural fields, installing more paper and furniture industries, creating more and wider infrastructure, ^{and} ~~and~~ roads and houses. When ~~the~~ ^{and} trees are cut down, the process of carbon sink is dwindled ^{and} ~~as~~ even carbon dioxide remains in the environment as no forests or trees are there ~~which~~ that ~~would~~ could ~~perform~~ absorb carbon dioxide. ~~so~~ That carbon dioxide and other unhealthy and unwanted gases prevail in the environment which ^{contribute} ~~impacts~~ global warming. Thus, deforestation also plays significant role in global warming.

Thirdly, burning of fossil fuels from different sectors generates global emission which ultimately impacts global warming. Use of conventional methods in creating energy to fulfill the demands of domestic use, commercial consumption and supplying adequate amount of energy to industrial areas also create ~~produces~~ 35% of the global emission. Not only orthodox way but also utilising non-renewable resources - coal, diesel, oil and gas - creates different types of emission like carbon dioxide, sulfur ~~oxide~~ ^{dioxide} and nitrogen which further worsen the environment and increase pressure on global warming.

Fourthly, depletion of Ozone layer also aggrandize global warming. As gases are trapped in the environment and there are less ^{green} cover in the earth region which could absorb gases. For that dangerous gases and life-taking pollutant remains in the environment, and thinning the Ozone layer which ^{direct} protect sun rays to the Earth. Moreover, sun radiation also impact Ozone layer ~~naturally~~. When Ozone layer is ~~thinned~~ thinned and affected, the sun radiation and rays reach directly to the Earth surface, which causes ^{rise} ~~rise~~ in earth temperature. So, ~~are~~ ~~the~~ depleting Ozone layer also adversely contribute to the global warming.

Lastly, excessive use of Nuclear weapons for Mass ~~bit~~ destruction also plays dominant factor in the global warming. After the ~~success~~ ^{It will destroy the whole world} of Manhattan Project in developing first ever nuclear bomb in the history of mankind and bombing, Hiroshima and Nagasaki, cities of Japan. The invention of these catastrophic forced the other nations of the world to acquire Nuclear weapon for their security purpose. Today, world has 12200 approximately nuclear ~~from~~ weapons. That have capability to destroy the whole earth. When these nuclear weapons are used, a ^{cloud} winter ~~cloud~~ is created in the sky, and that ^{cloud} ~~cloud~~ ^{cloud} ~~winter~~ hazardous ~~particul~~ particles and stop sun light to enter in the affected region. Heat, gases and particles are trapped in the atmosphere. Therefore, as such

destructive explosions also aggregate the global warming making earth ^{hot and} ~~un~~livable place. and

Previous paragraphs shed light on the causes and preceding paragraphs will highlight the horrific and horrifying implications of global warming.

Erratic change in weather patterns is one of the most horrendous consequences of the global warming. The patterns of rainfall ~~are~~ are unable to predict, by the authorities. Regions are getting witnessing higher temperatures which once used to be cold cities. Such as ~~at~~ London UK. In July 2025, London suffered from 263 deaths in the one month only because of heatwave. In Islamabad and other nearby regions faced multiple times hailstorms which was a completely new for Islamabad. As this, capital city of Pakistan, never experienced hailstorm before. Almost every region is suffered from ~~cloud~~ ~~flood~~ burst. Those areas include, Buner KPK, Islamabad, Karachi, Lahore, Internationally mentioning; Dubai and several part of India also ~~exp~~ suffered from ~~cloud~~ ~~burst~~ urban flooding and torrential rains. Thus, these real life ~~life~~ ^{and incident} mynah shows how ~~the~~ much weather ~~s~~ pattern are changed.

Moreover, another horrifying ramifications of global warming includes increase in Earth's temperature. According to Intergovernmental Panel on Climate Change (IPCC) report shows that 1.2°C temperature is increased from 1850 to 2024. It has potential to increase

from 1.4°C to 5.8°C in the 2100 century. This raise in temperature is because of human activities as well as natural nature itself. for stance, volcanic eruptions affects climate and cause short-term cooling by blocking sunlight. There Natural Greenhouse Effect also traps various gases in the atmosphere. That causes increase in earth temperature. Ergo, so the reason why a raise in earth's temperature is also reperussion of global warming.

Furthermore, next ramification of global warming is ~~see~~ increase in sea levels. When earth's temperature raises, and ~~the~~ earth become more hotter, sea level ~~rises~~ rises, coastal areas and low-lying region faces the threat of permanent inundation. Countless beach countries like Maldives and Indonesia land, are inundated with sea water. Even, Kaszchi coastal area is under the ~~under~~ sea water. Moreover, this rise in sea water poses risks of freshwater supplier as saltwater intrudes into rivers and ground water. According to ~~editiorial~~ estimates, global mean sea level has risen approximately 8-9 inches since ~~to~~ 1880. ~~It also~~ It also puts lives of million people under the risk of floods. Clearly illustrating that global warming also mitigate sea levels.

In addition to this, global warming also ^{drastically} impact glacier and icebergs melting. When earth becomes warmer, cold ~~at~~ regions and ice starts to melt at the alarming levels. Glacier melting brings more

fresh water in the rivers, sometimes also inundate the nearby regions. When excessive water flows in the rivers, half of water goes unused ~~in~~ ^{and waste in the} the ocean sea. Thus waste fresh water goes waste. With that being that, melting of ~~Iceberg~~ ^{Iceberg} further increases sea levels affecting ~~coastal~~ areas. Hence, global warming also impact glacier and ~~iceberg~~ melting.

Proceeding paragraphs underlined the following repercussions of the global warming. upcoming paragraphs would ~~underline~~ underscore the pragmatic remedial measures to combat global warming.

Controlling the ever-increasing population is one of the ways out of to combat global warming. International organisation ~~or~~ should force ~~responsible~~ over populated countries to control their population through "one child policy" likewise adopted by China. ~~State~~ State should take necessary steps to edify locals ~~to~~ about the consequences of over population. Educating ~~women~~ and encouraging women should the foremost priority of the government. Educated ~~women~~ can make knowledge-based decision of having ~~children~~. Institutions should highlight that resources are scarce and insufficient then how future generation would survive. Hence, this way, there would be less impact and pressure on the global.

Awareness and campaign about reforestation and afforestation ~~or~~ should be given to the people. State

green
should declare some ~~area~~ ^{cover} areas as a national parks.

Deforesting in national park is universally illegal and forbidden. With that, the NGOs, working for environment should be given more funds so that the NGOs's can build and enhance their capacity. State should ask to report if deforestation is done. For example, against one deforested tree, individual or entity is liable to report minimum ten trees. Such policies will set to reduce global warming. Rewards must be given if an individual afforest. ~~to the~~ ^{will} ~~they~~ ^{are} Such rewards and recognition with ~~seem~~ effective policies against deforestation will help to diminish global warming.

Write correct form of verb plz

Avoid use of Nuclear weapons ~~was~~ ^{will} also reduces risk of ~~of~~ further worsening the global warming. Countries should be forced to dismantle their nuclear infrastructure and facilities through United Nations. As these weapons are another risk of humanity. Even if accidentally used once, its impact would be devastating. Moreover, laws should be introduced to religiously monitoring the nuclear sites, weapons armaments. Hefty penalty should be imposed on the use of nuclear weapons. International Atomic and Energy Agency need to be ~~be~~ ^{be} strong and vigilant over the movement of nuclear weapons. Such actions will stop use of weapons and above the global warming.

Utilising green advanced technologies in industrial sectors is another way forward to eliminate global emission and reducing impact on global warming. State institution ~~she~~ must force their ~~ind~~ entrepreneurs to and industrialist to install green technologies that ^{would} ~~can~~ produce lesser global emission. Government should also provide incentives and ~~relief~~ ^{to} ~~on~~ imported green machinery. So that more factories would be switched to new advanced technology and equipment. State also needs to ~~check and verify~~ the Standard Operating Procedures that would ensure whether company is operating going green or not. Ergo, green advanced technology will diminish the pressure on global warming.

Lastly, it is high need of time that international communities should establish environment protection (EIA) and conservation laws. Environment Impact Agendas must be strengthened, a part ^{from} ~~of~~ evaluating the projects feasibility in the context of environment. EIA must be given power to ~~not~~ impose fines and penalties ^{to} ~~for~~ violating environmental laws. By this, way, industries will generate less negative externalities to the environment. By doing so, sustainable development goals ~~can~~ can be easily achieved. and Therefore, protection ~~to~~ and conservation laws will diminish the global ~~enter~~ warming.

To cap it all, ~~envi~~ & global warming is neither a new ~~envi~~ problem nor old but its severity from the past last decade is ~~aggr~~ aggravated. This problem can be minimised if there is mutual consent of the world leaders to tackle this issue. Else ~~cooperat~~ ^{for} each country ~~to~~ must be prepared ~~from~~ its devastating impact. This not only destroy the infrastructure and field but also millions of people can loss their life. and livelihood can be disturbed. ~~for~~ The USA president Mr. Donald Trump ~~or~~ should not referred global warming as "the greatest ^{con} job ever" and should not warned nations to stay away from this green scan". Because USA is one of the those countries who provide aid ~~at~~ at the time of devastating catastrophic flood and hail storm. USA along with its close allies need to take stringent stringent actions against global warming. Because this problem ~~is~~ is a collective problem. Therefore must be solved collectively. Hence, ~~This essay~~ ^{highlighted} ~~underscored~~ the significance of ~~of~~ global warming as an extended threat, discussed the causes and horrifying implication of the global warming and provided the pragmatic blueprint to ~~on~~ tackle this global warming.