

GLOBAL WARMING: CAUSES, ^{Date:} 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 hailstorm, flash floods, 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 Revolution ~~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} it is acting as an external 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 external threat. Moving forward, it would highlight causes that have augmented ~~this~~ 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 exploits natural resources, produces ^{excessive} carbon dioxide from biofuels. Global warming is an extended threat for the mankind. ~~It is~~ 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 these human activities more pollutants are contributed in the atmosphere. ~~Large~~ ^{Massive} population requires more goods and services for their survival. ~~It~~ Increase in demand of goods and services ^{leads} 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 is 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 environments. 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 trees are cut down, the process of carbon sink is dwindled ~~as even~~ ^{and} carbon dioxide remains in the environment as no forests or trees are ~~there~~ ^{there} which that ~~would~~ could ~~perform~~ absorb carbon dioxide. ~~That~~ That carbon dioxide and other unhealthy and unwanted gases prevail in the environment which ^{contributes} ~~impact~~ global ~~to~~ warming. Thus, deforestation also plays significant role in global warming.

Thirdly, burning of fossil fuels from different sectors generates global emissions 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} ~~oxide~~ and nitrogen which further worsen the environment and increase pressure on global warming.

Fourthly, depletion of Ozone layer also aggrandise global warming. As gases are trapped in the environment and there are less ^{green} covers in the ~~ea~~ regions which could absorb gases. For that dangerous gases and life-taking pollutants remain in the environment, and thinning the Ozone layer which protects ^{direct} sun rays to the Earth. Moreover, ~~also~~ 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 surfaces, which causes ~~rise~~ ^{rise} in earth temperature. So, ~~the~~ [#] depleting Ozone layer also adversely contribute to the global warming.

lastly, excessive use of Nuclear weapon for Mass ~~Dist~~ destruction also plays dominant factor in the global warming. After the successive of ~~Manhattan~~ 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 ~~to~~ forced the other nations of the world to acquire Nuclear weapon for their security purpose. Today, world has 12200 approximately nuclear ~~for~~ weapons. That have capabilities to destroy the ~~not~~ whole earth. When these nuclear weapons are used, a winter ~~cloud~~ ^{cloud} is created in the sky, and that ~~cloud~~ ^{cloud} contain hazardous ~~particled~~ particles and stop sun light to enter in the affected region. Heat, gases and particles are trapped in the atmosphere. Therefore, ~~at~~ such

destructive explosions also aggregate the global warming, making earth ^{hot and} unlivable place. and

Previous paragraphs shed light on the causes and preceding paragraphs would 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 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~~ cloud burst. These areas include, Buner KPK, Islamabad, Karachi, Lahore, Internationally mentioning; Dubai and several part of India also ~~exp~~ suffered from ~~extreme~~ cloud burst, urban flooding and torrential rains. Thus, these real ~~time~~ life ^{and incident} mynthem shows how ~~the~~ much weather ~~is~~ patterns are changed.

Moreover, another horrifying ramification of Global warming includes increase in Earth's temperature. According to Intergovernmental Panel on Climate Change (IPCC) reports 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 instance, volcanic eruptions affect climate and cause short-term cooling by blocking sunlight. These Natural Greenhouse Effect also traps various gases in the atmosphere. That causes increase in earth temperature. Ergo, so ~~the~~ the reason why a raise in earth's temperature is also repercussion of global warming.

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

In addition, to this, global warming also ^{drastically} impacts Glacier and Icebergs melting. When earth becomes warmer, cold ~~as~~ 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 river, half of water goes unused ^{and waste in the} ~~in the~~ ocean sea. Thus ~~waste~~ fresh water goes waste. With that being that, melting of ~~iceberg~~ icebergs further increases sea levels affecting coastal areas. Hence, global warming also impact glaciers and icebergs melting.

Preceding paragraphs underlined the horrifying repercussions of the global warming. Upcoming paragraphs would ~~underscore~~ 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 ~~a~~ force ~~respect~~ over populated countries to control their population through "one child policy" likewise adopted by China. ~~Every~~ State should take necessary steps to edify locals ~~too~~ about the consequences of over population. Educating ~~women~~ and empowering 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

should declare some ^{green} ~~area~~ ^{cover} area 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 can build and enhance their capacity^{build}. State should ask to reforest if deforestation is done. For example, against one deforested tree, individual or entity is liable to reforest minimum ten trees. Such policies will ~~not~~ ~~to~~ reduce global warming. Rewards must be given if an individual afforest. ~~in the way~~ ~~that~~ ~~is~~ Such rewards and recognition with ~~seamless~~ effective policies against deforestation will help to diminish global warming.

Avoid use of Nuclear weapons ^{will} ~~not~~ also reduces risk of ~~of~~ further worsening the global warming. Countries ~~in~~ 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, ~~to~~ it would impact would be devastating. Moreover, laws should be introduced to religiously monitoring the nuclear ~~sites~~ ~~weapons~~ armaments. Hefty penalty ~~and~~ should be imposed on the use of nuclear weapons. International Atomic and Energy Agency need to be ~~or~~ ~~stern~~ and vigilant over the movement of nuclear weapons. Such actions will stop use of weapons and ~~a~~ ~~obviate~~ 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 institutions ~~the~~ must force their ~~ind~~ entrepreneurs ~~to~~ and industrialists to install green technologies that ~~can~~ ^{would} produce lesser global emission. Government should also provide incentives and relief ~~to~~ ^{on} imported green machinery. So that more factories could be switch to new advanced technology and equipment. State also need 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 and conservation laws. Environment Impact Agencies must be strengthened, a part ~~of~~ ^{from} evaluating the projects feasibility in the context of environment. EIA must be given power to ~~give~~ impose fines and penalties ~~to~~ ^{on} violating environmental laws. By this way, industries will generate less negative externalities in the environment. By doing so, sustainable development goals ~~can~~ can be easily achieved. and Therefore, protection ~~to~~ and conservation laws will diminish the global ~~emission~~ warming.

To cap it all, ~~enough~~ a global warming is neither a new ~~can~~ problem nor old but its severity ~~from~~ ⁱⁿ the ~~past~~ last decade is ~~aggs~~ aggravated. This problem can be minimised if there is mutual consent of the world leaders to tackle this issue. Else ~~preparing~~ ^{each} country ~~to~~ must be prepared ~~from~~ ^{for} its devastating impact. ~~to~~ ~~to~~ This not only destroy the infrastructure and field, but also millions of people can loss their life and livelihood can be disturb. ~~But~~ The USA president Mr. Donald Trump ~~or~~ should not referred global warming as "the greatest ^{con} ~~can~~ job ever" and should not warned nations to stay away from "this green scam". Because USA is one ~~of~~ of the those countries who provide aid at ~~in~~ 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 collective problem. Therefore must be solved collectively. Hence, ^{highlighted} ~~underscored~~ ^{This} ~~it~~ essay ~~underscored~~ the significance of ~~it~~ global warming as an extended threat, discussed the causes and horrifying implications of the global warming and provided the pragmatic blueprints to ~~can~~ tackle ~~this~~ global warming.