

# Global Warming is a <sup>Global</sup> ~~national~~ issue

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# 1. Introduction.

In 21st century Global warming is a <sup>Global</sup> ~~national~~ issue due to Green house gases, effects, depletion of ozone layer and there are lot of causes. But the Global warming severally effects, socially, economically, environmentally, politically and culturally and mitigation are also available if we follow, we can save ourselves from this national issue. Now, Global warming is not only the issue of any nation, state but it is an international problem and Global warming is instigated by human activities, so it considered as Great threat. According to Intergovernment panel of climate change (IPCC) that the temperature of an earth is increasing gradually. So, it further told that 1.2°C of earth has increased since 1850 and the temperature has further potential to rise from 1.4°C to 5.8°C till 2100. As per NASA 1°C has increased over the past 120 years.

**Why Global warming is a national issue:**

## i- Green house Gases.

All the gases which surround the earth like Carbon dioxide, Methane gas, Chloroflourocarbon and Nitrogen oxide have the ability to absorb heat, trap heat and scatter heat. According to Intergovernment panel of climate change that Carbon dioxide contributes 61% in Global warming which is absolutely high, Methane gas contributes near about 15%, Chloroflouro Carbon contributes upto 11% and Nitrogen oxide contributes 4%.



## ii- Green house Effect

It is a thermal process which the heat gets trapped into the atmosphere under the action of Green house gases. The phenomenon of Global warming is closely linked to the accumulation of green house gases in the earth's atmosphere. The green house effect occurs when certain gases in the earth's atmosphere trap heat. These gases known as green house gases.

## iii- Depletion of Ozone layer

It is all about thin layer / shield of Ozone gas ( $O_3$ ). This is basically filtration of solar radiations. It prevents the entry of Ultra violet radiation (UV) (UV radiation causes, skin cancer, eyes, plants and animals). According to two Britisher scientist named Monel Molera and Sherewood in 1973 identified the ozone layer for the first time, But in 1985 a Britisher interact survey confirmed that Ozone layer has really depleted. In 1987 designed an international agreement named "Montreal protocol" (Objectives of Montreal protocol was Phasing out Ozone-depleting substance, Monitoring and reporting and Financial mechanisms) which was enforced in 1989.

## iv- Population explosion:

The rapid increase in the global population has significant environmental implications, one of the most pressing being its contribution to global warming. Rise in number of people results into consumption, production, deforestation, Urbanization, energy demands Generation Solid.



waste and Transport. According to Census Bureau, in 1860 there was only 3 billion population. In 2000 population has been doubled the number was 6 billion and according to latest report on November 5th, 2022 that population has increased from 6 billion to 8 billion and it has been expected that the population will be increased till 9 billion within in 8-10 years.

#### V. Massive Deforestation

Deforestation, the large scale removal of forests, significantly contributes to global warming. Forests act as a carbon sink, absorbing Carbon Dioxide ( $CO_2$ ) from the atmosphere. When trees are cut down or burned, this stored carbon is released back into the atmosphere, increasing greenhouse gas concentrations and contributing to global warming. According to Intergovernmental Panel of Climate Change that the world has lost about 420 million hectares of forest between 1880 and 2020, primarily due to agricultural expansion, logging and infrastructure development. The hotspots of the Amazon rainforest, the Congo Basin and South East Asia are major deforestation hotspots.

#### Effects of Global Warming

i) **Indirect threat to life**

Global warming is a direct threat to life because of rising in temperature.

According to World Meteorological Organisation (WMO) that 2023 year was the hottest year and the July month of 2023 was the hottest month.

In 2023 Xijiang (China) recorded  $52^{\circ}C$ , In 1922 temperature in London was recorded.



40°C for the first time, in Bihar (India), Dhaka (Bangladesh) and Greece heat remained 32°C to 35°C for 18 days first time and. Kuwait recorded 63°C in 2021 for first time. 2016 was the 2<sup>nd</sup> most hottest year.

Rising temperature intensification into heat waves, in Karachi (Pakistan) within 3-4 years more than 1200 deaths were recorded. In India just 3-4 years 5000 deaths recorded, whereas in UK 1400 deaths recorded within a week in 2022.

## ii) Global Ice Loss

Global ice loss is also affecting. As per International Commission on Ice and Snow, glaciers of New Zealand are melting approximately 11%, glaciers of Tibet (India-China) are melted approximately 25% and Russian glaciers are melted about 50%. also North USA glaciers are melted about 20%. As per NASA Pakistan Himalayan glaciers are most rapidly melting glaciers in the world while European glaciers are 2<sup>nd</sup> most melting glaciers. One of the ice sheet in Antarctic region has been broken away and became the part of ocean, it was 4 times larger than London city, it happened back in 2018.

## iii) Increasing Intensity and Frequencies disaster

### a) Floods / Urban Flooding

In 2017 Lahore faced flooding, In 2022 Flood of Sindh, In 2023 India, China, Russia faced flood. In Korea, Switzerland flooding



has become a common, In 2022 As per NDRMA more than 1500 human deaths recorded in Pakistan due to flood. In 2022 flood about 5000 km roads were destroyed and 500 bridges were destroyed. About 1 million livestock loss in 2022 floods. Govt of Pakistan claimed 16 billion dollars loss in 2022 floods and now they claimed about 30 billion dollars including <sup>loss of</sup> Infrastructure, Agriculture, livestock and etc.

#### iv) Agriculture

Due to increasing temperature in 2022 production of mango 30%-40% decreases. Due to scarcity of water food insecurity problem occurs and due to changing rainfall pattern wheat seed is reduced and less production of mango, the export of mango has been reduced.

#### v) Education

Due to heat waves, holidays of educational institutions. In 2024 <sup>Annual</sup> Exams of Intermediate students in Sindh have been postponed for a week.

### Solutions of Global Warming

#### i) Stabilizing the level of Green house

Transformation in the energy system. From fossil fuels to Renewables. Recently United Kingdom (UK) shifted its power from fossil fuels to Renewables (solar system).



## ii) Increasing Global Forest cover.

In this we need to increase afforestation as well as Reforestation as we control the deforestation because plants are best consumers of Carbon dioxide ( $CO_2$ ). We also need to control deforestation. According to SDG's that promote the plants drive. Every environmental problem is not only the responsibility of Govt; but also it is the responsibility of Individuals and Socials.

## iii) Promotion of Sustainable Transport

Due to lot of private vehicles on road the Carbon dioxide increases so, we need to reduce the number of private vehicles on road. Older vehicles produce Carbon dioxide a lot so, we also need to ban the use of older vehicles on the road. We need to promote decent public transport within the cities, we also need to promote cycling as well as electric bike as Carbon dioxide ( $CO_2$ ) production will be reduced.

## iv) Promotion of Sponge Cities

Insuring effective land use. We need to promote vertical expansion of cities rather than horizontal, green belts as well increase plantation. To built small water Reservoirs as we can save rain water and with the help of rain water we can do harvesting etc. Due to Reservoirs the chances of flood will be decreased. We need to make zones like Educational zones, Health zones and Institution zones. We need to make the sides of road



(Foot paths) with porous material as it will absorb water easily. We need to make green housing like Indoor, Rooftop and Plantation around surrounded with us.

#### v) Environmental Education awareness

We need to aware the <sup>Youth</sup> future of Pakistan through different sustainable trainings and sessions ~~will~~ which will be conducted by different institutions like schools, colleges, and universities. We need to aware people through local governance system, through electronic media, social media, and print media, through religion by religious people.

#### Conclusion

No doubt Global warming is a global issue but we can control global warming through stabilizing the level of green house, Increase Global forest cover, Promotion of Sustainable Transport, Promotion of sponge cities and environmental education awareness. through all the solution of we not only control Global warming but also stop Global warming and save our world from these ~~can~~ effects which are affecting our world.