

# Topic: Correlation of globalization and climate change

## 1. Introduction

### Thesis statement

Globalization and climate change are two distinct but practically inseparable phenomenon. We have overlooked climate change in quest of globalization. Hence, it is mandatory to flourish globalization on sustainable patterns to minimize the threats from climate change.

## 2. How globalization and climate change are correlated

## 3. Negative aspects of the correlation between globalization and climate change

- a) Clearing land for the global village i.e deforestation
- b) Economic dents due to climate change
- c) Running the global world requires more fuel and energy
- d) Losing infrastructure due to climate change led disasters
- e) Excessive relying on transportation causing climate change.
- f) Poor agronomic practices to feed global village

Positive

#### 4. (Negative) aspects of correlation between globalization and climate change

- a) Enhanced cooperation between the nations
- b) Swift exchange of



technology to developing countries

c) Joint mechanism to control air pollution by carbon emission

d) Global shift towards the renewable energy resources

e) Technology connected the world to monitor climate change

f) Global challenges to promote plantation across the world

5. How to use globalization as a tool to contain the climate change

a) Promoting green technology on global level

b) Effective implementation

of 17SDG's on global level

c) Global campaigns of tree plantation

d) Awareness of sustainable practices through state level policies

e) Legislative measures on conservation of natural resources

## 6. Conclusion

### Essay

As per Lord Robertson, "globalization will make our societies more creative and prosperous, but also more vulnerable". These lines refer to the present situation. Where globalization has made the world more connected, it has also a worst picture besides its benefits. It has also aggravated the climate change. But, considering its advantages, its bitterness can not be



ignored. There are various positive as well as negative aspects of correlation of globalization and climate change.

On one hand, deforestation for connecting the world by various means is affecting the environment, disasters are posing a serious threat to economy and climate, on the other hand. Moreover, modern means of transportation and unsustainable agricultural practices to feed the global world are also affecting climate and environment. However, various positive aspects of correlation are also evident.

For instance, technologically connected world has acquired renewable energy resources and joint mechanism to control air pollution. In addition,

to it, global challenges for reforestation and enhanced cooperation between the nations are also some positive aspects of this correlation. Therefore, by using globalization as a tool, the menace of climate change can be contained. Hence, globalization and climate change are two distinct but practically inseparable phenomenon. We have overlooked climate change in quest of globalization. Hence it is mandatory to flourish globalization on sustainable patterns to minimize the threats from climate change.

As globalization has made the world connected as a unit, but at the



same time, this global world is posing a threat to man's existence in the form of climate change. As per IPCC, the temperature of the modern world will be increased from 1.5 to 2°C and sea level from 0.32 to 1.01m (IPCC, "2nd report of 6th assessment 2021"). So, climate change is manifesting itself in the form of heat waves, droughts, wild fires and floods damaging the economy of the world and posing a serious threat to lives of people and other species. Therefore, a correlation between globalization and climate change is affecting the world from various dimensions.

There are various negative effects of correlation between globalization and climate change, one of those is clearing land for global village. The reason for this is the needs of the connected world have enhanced. As in modern world, there is a greater need for clearing land for making roads and industries to keep the world connected, so deforestation has been increased. So, deforestation is a prominent cause of global warming. For instance, according to global forest watch, more than 10 million hectares have been deforested over past 4 years. In this way, globalization is causing



deforestation and leading to increase in global temperature

Not only an increase in temperature, but globalization is also affecting the economy. The reason for this awkward threat is rising probability of disasters.

As globalization increases the speed of global warming, so it is enhancing the glacier melting which, in turn, increases floods. For instance, according to Pakistan Economic Survey, Pakistan has faced 200 billion loss in 2010 due to floods. Not only floods, but climate change is affecting the economy overall. For instance, as per World bank and Asian development bank 2022, Pakistan has to face \$ 3.8bn

loss per year due to climate change. In this way, climate change is affecting the economy which is due to globalization.

Moreover, running the global world requires more fuel and energy which is also aggravating the climate change. The reason for this population explosion. As population is rising, so to maintain connectedness more energy is needed for electricity and transportation. Therefore, more the consumption of fossil fuels, more is amount of  $\text{CO}_2$  produced and global warming. For example according to world bank report 2021, 64% of Pakistan's electricity is produced by hydrocarbons which is



escalating the menace of climate change. As per global level, China, USA, India and EU are major carbon emitters which are continuously damaging the environment. For instance, China is at top with 35% emission due to globalization. In this way, globalization is enhancing the curse of climate change.

Not only the loss of precious lives but the climate change led disasters are also responsible for infrastructural loss. The reason for this is also human activities. As world is being globalized so the world leaders e.g. US are acquiring such technologies that are

disturbing stratosphere and inflicting massive rain falls, earthquakes, tsunamis and droughts.

For example, HARP technology of US is leading to disturbance in stratosphere and can acquire disasters. UK, France and China claim that US acquires this technology but US denies having this technology. In this way, globalization is converting the world into a disastrous place affected by human activities.

Moreover, to meet the everyday needs, transportation is necessary for the globalized world which is also causing the climate change. The reason



For this is using the hydrocarbon powered vehicles. As fossil fuel burn into the engine of vehicles and produce  $\text{NO}_x$  and  $\text{CO}_2$ . These are green house gases and they instigate global warming. For example, as per NASA study, in 1950, there was 300 PPM  $\text{CO}_2$  in the atmosphere and 420 PPM is in 2022. The emission of  $\text{CO}_2$  is gradually increasing. In this way, excessive reliance on fossil fuel powered vehicles is enhancing the climate change. Last but not the least, poor agronomic practices to feed the globalization is also affecting the climate. The reason for this is lack of enough water. As is

climate change is aggravating the melting of glaciers, so due to lack of water, Pakistan has become one of the water stressed countries as per IMF and World bank due to insufficient water reservoirs. Therefore, to fulfill the food requirement, farmers have to use fertilizers and pesticides. So, as per IPCC, agricultural sector is contributing upto 25% in carbon emission (5th assessment report, IPCC). In this way, poor agronomic practices are also escalating the menace of climate change.

On one hand,



globalization is affecting the climate, but on the other hand, there are some positive aspects of this correlation, one of these is enhanced cooperation between nations. The reason for this is connectedness of world. Through globalization, world is getting closer and discovering the solution for this curse. For example, UNFCCC organized COP-21 in Glasgow UK, where 197 countries participated and Glasgow climate pact agreement was signed and 1000 trees were planted. There were 120 heads of states and 40000 registered participants.

and 866 volunteers.

In this way, globalization is enhancing the cooperation b/w the nations to fight the peril of climate change.

Along with enhanced cooperation, there is swift exchange of energy between the nations due to globalization. The reason for this is increasing degradation of environment. As due to hydrocarbons, air is being polluted so countries e.g. Pakistan are trying to produce most of energy through these renewable resources. It is estimated that Pakistan would be producing 0% of electricity by imported hydrocarbons. For instance,



under CPEC, there are 4 wind projects, 1 solar project, 1 transmission line project and 1 hydro-power project which are completed and some are under construction. In this way, swift exchange of technology to developing countries is a positive aspect of correlation between globalization and climate change.

Not only technology but there are joint mechanisms to control air pollution. The reason for these is an increase in respiratory problems. As major carbon emitters felt the suffocation of climate, USA decided to lead the world from the front in an attempt to

reduce carbon emission.

For instance, Paris Climate agreement was signed by all major emitters. It was an agreement to evaluate carbon emission after every 5 year in order to measure the efficacy of carbon cut off plan. In this way, joint mechanism to control air pollution by carbon emission is positive aspect of correlation between the globalization and climate change.

Not only Pakistan but also the whole globalized world is shifting towards renewable energy. The reason for this is climate change poses a biggest threat to national



security. As the globalized world has felt the peril of climate change, USA restricted and banned on new hydrocarbons projects and Obama made visit to China, Brazil and India etc to convince them for renewable energy and carbon cuts. Resultantly, most of solar panels are planted by China and China is on 3rd position in investment in wind projects, after USA and Germany. In this way, the globalized world is shifting towards renewable energy-

Moreover, technology has connected the world to monitor climate change which is an evident

feature of this globalization. The reason for this is some areas are far-flung and difficult to be approached. As the whole world can not be monitored in order to evaluate the climate change, now, satellites are being sent to space to capture the world's far-fetched areas. For instance, NASA controls the space and expeditions etc. Most space stations are being sent by USA to monitor the world. In this way, technology has connected the world, which is also a positive aspect of correlation between the globalization and climate



change.

Last but not the least, globalization has led to the global challenges to promote plantation across the world. The reason for this is carbon eating capacity of trees. As trees utilize carbon and send it back to the earth so it leads to decrease in the amount of  $\text{CO}_2$  in atmosphere which hampers global warming and neutralize the effect of disasters e.g. floods. For example, Bonn challenge was given in 2019 to plant trees across the whole world. Pakistan planted almost 2-5 billion trees and achieved the target of 2030. In this way, global challenges are being given to promote

plantation across the world.

As there are positive as well as negative effects of correlation between globalization and climate change, so it can be used as a tool to contain climate change. One of the various steps of using globalization as a tool is promoting green technology on global level. The plastic waste can be recycled to produce energy and for construction of infrastructure. For instance, in Islamabad, 1 kilometer road of Atta Turk Avenue has been constructed by 10 tons of plastic and its cost is 20 million. In this globalization can be



used as a tool by promoting green energy on global level.

Also, effective implementation of 17 SDGs is

also a tool to hamper the climate change. The reason

is climate change, if left unchecked, will roll back

the development gains and make further gains impossible.

Investments in sustainable development will help address climate change by reducing green house gases and building climate resilience.

For instance, there are 169 targets of 17 SDGs and

climate change actions are also included as same

as 13 SDGs and MDGs. It

is necessary to make an action on climate change

to drive sustainable development.

More over, there should be global campaigns of planting trees world wide.

As the world is connected through the softwares of internet, there must be taken an initiative of making videos of tree plantation so that seeing celebrities, the follower have to follow them.

For example, mangroves forests of Pakistan are being deforested by government for making power projects. The back bone of Pakistan is going to be submerged under the water of Arabian sea because the sea level is rising. So, there must



be an initiative of launching campaigns on global level to fight the climate change.

Also, through state level policies there must be an awareness of sustainable practices. Due to less or insufficient water, farmers have to use fertilizers and pesticides which are polluting marine ecosystem. By using globalization as a tool, government should encourage the use of drip irrigation system and hybrid seeds which can withstand the effects of environment. By this process, crop yield will be increased with less water usage and food shortage would be eradicated. In this way,

awareness of sustainable practicess through state level policies are mandatory to fight against climate change. Last but not the least, there should be legislative measures on conservation of natural resources. As it can be achieved by declaring climate change as a national threat. For instance, Obama restricted and banned on new hydrocarbon projects. He ordered all hydrocarbon emitters to stop emission by using latest technology. Also, he discouraged big companies on global level to sign new hydrocarbon projects. He also increased



shift to clean energy projects as wind, solar and nuclear power etc.

In this way, legislative measures on conservation of natural resources must be taken to impede climate change.

In a nutshell, there is a correlation between globalization and climate change which has positive as well as negative implications. The positive aspects are enhanced cooperation between nations by swift exchange of technology and usage of renewable energy resources.

Also, global challenges for tree plantation are also evident which are

positive aspects of correlation. However, deforestation, climate change led disasters which are destructing the infrastructure and causing economic losses are some negative aspects of this correlation. But, this globalization can be used as a tool by promoting green energy, effective implementation of 17SDG's and launching the global campaigns of tree plantation. Also, giving the awareness about the sustainable practices through state level policies and legislative measures on conservation of natural resources are some of the tools for achieving progress in globalized world.



Although time is short and situation is critical, but acting out on suggested remedies can minimize the threat of climate change. As some one has said, "As long as we are connected, the solution lies in our connectedness."