

Topic

Why is Pakistan so vulnerable to climate change and water crisis?

Outline

1. Introduction

Pakistan is ^{the 8th most} vulnerable to ⁴⁰⁰ climate change and water crisis. Although Pakistan is least contributor to climate change but it is almost effected as a result drought, floods, heavy rains, hightemperature issues we are facing. ~~at~~ Impacts of this change can be reduced by taking solid steps national and international level.

2. Causes of Climate Change

- a) Continuously increase in Industrialisation
- b) Rapidly increase in deforestation
- c) Melting of glaciers due to increase in temperature.
- d) More usage of Greenhouse gases.

3- Why Pakistan

3- Pakistan is so vulnerable to climate change and water crisis.

- a) Heavy rainfalls and floods
- b) Loss of infrastructure & human loss
- c) Floods impact on income.
- d) Food insecurity and drought
- e) Lack of water reservoirs

4- The way forward to combat climate change and water crisis

- a) Lesser the usage of fossil fuels
- b) Construction of dams for water storage
- c) Grow more trees to reduce the carbon.

5. Conclusion

Climate change has become major threat to all form of lifes on the earth and stituation is getting worse day by day. Developed countries has a major role in change in climate patterns due to industrialization, use of greenhouse gases, ~~emr~~ emission of chloro floro Carbon. Pakistan is lesser contributor to climate change. It emits less than 1% carbon, according to Globa Risk Index. Pakistan may have to facing many challenges due to floods, heavy rainfall, water crisis which has effects on Pakistan economy. Climate change is global issue that needs to solve, not only national but international level too.

As more and more industries are getting set up to fulfil the needs of the human. These big industries use a large amount of fottle fossil fuels like coal, petralium. for power to run the machines. Burning of fossils emit carbon dioxide.

On the path of emission of carbon dioxide, temperature could increase $4-4^{\circ}\text{C}$ at the end of the century.

The use of forests for the fuel is one cause of deforestation. We use forest for wood, paper production, and use its herbs in medicines.

Forest stores CO_2 and remove from atmosphere, but due to deforestation CO_2 increase in atmosphere which causes the more amount of temperature. As UN report 2022, 5 million hectares trees are removed. As a result a ample amount of CO_2 enters into atmosphere.

Increase in atmospheric temperature, glaciers has started to melting. According to IPCC report, glaciers lost more than 6000 tonnes of ice globally over the period 1993-2019. So, it may cause to rise the sea level, an addition to 3 to 4 inches.

Green house gases is also increasing the temperature. Green houses

have a warming effect. Major green house gases are carbon dioxide gas, methane and nitrogen gases.

Pakistan is so vulnerable as change in atmospheric patterns, increase in temperature, glaciers melt, water evaporates as result heavy rain falls in Pakistan.

As 2022, Pakistan has been severely affected 342m people. People have to bear loss of life and properties. They ~~are~~^{were} forced to survive on the roads.

Pakistan economy has been crippled by devastating and repetitive floods. In last 10 years, Pakistan hit by floods almost every year. The flood of ²⁰²² result in almost 2966 deaths and a lot of people injured. As of 2022, 2.3 billion people faced severe food insecurity of which 924 million face severe food insecurity.

By reducing our use of fossil fuels, can tackle climate change key steps. not building new coal power plant and replaced with eco-system friendly power plants. Government should construct dams to store excess water due to heavy and expected rains. We should grow more trees for this purpose govt is following the project "Ten Billion Tree Tsunami Programme". Govt should make policies to protection and preservation of wildlife also.

In nutshell, to reduce the devastating effects of climate change developed countries make policies to reduce carbon emission and support developing countries.