

Essay:-

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

1 Introduction

Thesis statement

2:- Why Pakistan weak in water crisis and climate change

(a) change in climate due to increasing of temperature

(b) Lack of proper water management

(c) No dams construction

(d) use of fossil fuels

(3a) use of green houses gases

(3b) solar energy

(3c) ~~low~~ Release of chemicals and other gases

(3d) & Depletion in Ozone layer

(4a) Increasing global temperature

(4b) Heat waves

(4c) Power generation

(4d) Dams / water management

Conclusion

Pakistan is vulnerable and most affected by all adverse impacts of climate change and

water crisis. climate change and water crisis is big issue for Pakistan now a days. The impact of climate change on Pakistan during the year 2022, resulting into unprecedented heatwave and drought in summers followed by the abnormal rains and flood during monsoon seasons.

The greenhouse effect is the main cause of global warming. It is natural phenomenon that contributes to maintaining the average temperature of the earth's surface. However, the more greenhouses gases there are in the atmosphere, the more heat is retained. This eventually leads to global warming. The other main reason is Pakistan have no dams of water. Due to lack of dams, Pakistan face these problems like water crisis and global warming, climate change. Fossil fuels are burnt on a day-to-day

basis and they contain high percentage of carbon, coal and petroleum and many other gases. So carbon dioxide being the greenhouse gas is provided in excess in the atmosphere which again leads to global warming and water crises.

In the last half of 20th century, the use of chemical fertilizers has risen dramatically. Over the course of millions of years, the motion of tectonic plates reconfigures global land and ocean areas and generates topography. This can effects both global and local patterns of climate and atmosphere-ocean circulation.

The Ozone layer is the layer outside atmosphere which protects the surface of the Earth from the harmful Ultra-violet and infrared radiations causing dangerous diseases like skin cancer. Ozone layer depletion is also one of the cause of global warming.

and water crisis in the whole world and also Pakistan.

The global warming has led to melting of the Himalayan glaciers and consequent depletion in the flow of water into Indus river system. Last year, 20 different UN bodies had warned "water is linked to the crisis of climate change, energy and food supplies and prices, and troubled financial market."

If Pakistan make Dams, Pakistan easily control the water crisis problem. Kalabag dam is more important dam for Pakistan. Kalabag dam site is located 132 miles down stream of Terbela. Its gross storage would be 6.1 maf. It would have a power generation of 3600mw.

The energy used to power, heat, and cool our homes, business and industries is the single largest contribution to global warming.

with rising temperature. It is not that only agriculture sector, the backbone of Pakistan's economy is suffering, due to depleting water supply, there is reduce power generation from the hydroelectric plants, having a devastating impact on the country's industries too. Pakistan has no control over the nature. However, it can improve the management of water resources. Pakistan needs to address the following problems on urgent basis.

The silting of dams and barrages is a continuous process. Due to heavy sand sediments carried by the rivers. Trabela, Mangla, and Chasma Dams have lost nearly 25% of their capacity. Traditional and antiquated agriculture techniques leads to excessive loss of water. While water intensive varieties of crops, like sugarcane and rice are cultivated.

clear

Since Pakistan required considerable time to build necessary infrastructure to divert water from western river to eastern rivers and their canals on its side.

Authorities should take appropriate steps to curb the illegal extraction of water and ensure its equitable distribution.

Presently irrigation department has failed to stop the illegal theft and extraction, thus irrigation distribution system needs to be privatized through water user associations.

In addition, water now a days is supplied to farmers at a very negligible cost and that is why they do not treat water as a precious resources. Therefore there is a need to increase the water prices to make irrigation realize the importance of this asset. Farmer organizations, water user association and private sector

must be involved in construction, operation and maintenance of the irrigation system - Such associations are conceived in as a mechanism for creating a cooperative frame work for improvement of water resource and global warming.

Conclusion:-

The problem faced by the water sector and global warming in the country are many, acute and serious and it is also known that we can generate about 83 maf of more water. At the same time, it will enable us to utilise every drop of our water for our bright future. Also Geothermal energy has been used for thousands of years in some countries for cooking and heating. It is simply power derived from the Earth's internal heat. This thermal energy is

It would have a

contained in heating rock and fluids beneath Earth's crust.

It can be found from shallow ground to several miles below the surface, and even farther down to the extremely hot molten rock called magma.