

(A) Pakistan's Consequences

(i) Cloudburst

(ii) Glacier Melting

(iii) Temperature Increase

(iv) Threat to Agriculture

Pakistan despite releasing the lowest amount of pollution to the environment but still one of the earliest countries to face the devastating effects caused by climate change. One of the initial and new consequence of climate change on Pakistan is cloudburst (it is a sudden release of rainfall of about 100mm that is 4 inches over a small area, often within a hour). Last year the phenomenon of cloudburst took place in Swat, causing serious threat to agriculture, infrastructure and live-stock. Second effect of climate change on Pakistan is that due to climate change the average temperature of earth is increasing by 1.5 to 4.5 °C

Due to which the glacier in Karakoram Range is drastically melting, which is increasing the sea-level and also irregular river up and down level, causing serious damage to infrastructure. The third consequence is rise in temperature. In Pakistan, Sibi was considered one of the hottest district of Pakistan but recently the temperature is increased by 2°C in country, which is regulating the irregular pattern of rainfall and also in summer season, the number of heat-stroke waves are increasing, disturbing the daily routine system of citizens of Pakistan. And the last consequence is impacting the agricultural system of Pakistan. Pakistan is an agricultural country and also it is the backbone of our country's economy. But recent vulnerabilities to the climate change

shows that Pakistan's agriculture system is the frontline object to get destroyed. According to World Bank report, "Climate change could reduce agriculture system of Pakistan significantly". Climate change is having a threat to the state of Pakistan and the system of governance to fight against this human induced problem.

(A) Human Induced Causes

(a) Fossil Fuel Consumption

(i) Use of CFCs and HFCs

(ii) Excessive use of coal burning

(iii) Cooling thermal plant

Climate change is a defining crisis of the 21st century, is mainly driven by anthropogenic activity intensifying the greenhouse effect, leading to the climate change. One of the main human induced cause behind climate change is the consumption of fossil fuels (the dead remains of plants and animals) like oil, gas, and coal. By burning these fossil fuels, a large amount of CO_2 (carbon-dioxide) is released into the atmosphere causing harmful effect to our climate. Second cause which is injurious to our climate change is use of chlorofluorocarbons and hydro-chlorofluorocarbons. They are used in air-conditions, refrigerators and

automobile industry, which release excessive amount of CO_2 , causing serious damage to Ozone layer (O_3) leading to various skin diseases. Third one cause to the climate change is the excessive burning of coal, which not only release CO_2 but also black carbon and SO_2 (sulphur dioxide), leading to the atmospheric pollution and altering climate pattern. The process of cooling thermal plant, is also the main cause to induce climate change because the water release by these thermal power plants are contaminated and affects the aquatic life. So, these are all the main human induced factors behind the rapidly changing climate change. As noted by IPCC (International Panel on Climate Change) that "human influence on climate change is unequivocal" means that these factors are actively intensifying global temperature.

M T W T F S

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rise sea-level and extreme weather
events causing serious damage to
the developing countries like Pakistan.