

Topic: Causes And Impacts Of Climate Change On Pakistan

Brainstorm

Climate change

Causes

Un-planned Development

Air pollution

Land pollution

Mining

Littering

Overpopulation

- Urbanization
- Deforestation
- Informal settlements / poorly constructed housing
- Overloaded power grids
- Frequent Blackouts

Water pollution

- Industrialization
- Green house gas emission
- vehicular emission
- Crop residue burning
- Fossil fuels
- Black carbon & particulate matter
- Biomass emission

- Marine dumping
- Industrial waste
- Oil leaks and spills
- Radioactive waste
- Leakage of sewage lines

Impacts

Public health
→ Diseases

Temperature / weather conditions

Floods
→ Droughts

Economy
→ Blue Economy

Aquatic life

Agriculture & food supply

Biodiversity loss
→ Extinction of species

Productivity reduces

Crop failure

shortage of food

Outline

1. Introduction

- 1.1 Hook
- 1.2 General statement
- 1.3 Thesis statement

2. Causes of Climate Change In Pakistan

2.1 Un-planned Development

- 2.1.1 Urbanization
- 2.1.2 Deforestation
- 2.1.3 Informal settlements/poorly constructed housing
- 2.1.4 Overloaded power grids
- 2.1.5 Frequent blackouts

2.2 Air Pollution

- 2.2.1 Industrialization
- 2.2.2 Green house gas emission
- 2.2.3 Vehicular emission
- 2.2.4 Biomass emission
- 2.2.5 Crop residue burning
- 2.2.6 Fossil fuels
- 2.2.7 Black carbon and particulate matter

2.3 Land Pollution

- 2.3.1 Mining
- 2.3.2 Littering
- 2.3.3 Overpopulation

2.4 Water Pollution/Contaminated water

- 2.4.1 Industrial waste
- 2.4.2 Marine dumping
- 2.4.3 Oil leaks and spills
- 2.4.4 Radioactive waste
- 2.4.5 Leakage of sewage lines

3 Impacts Of Climate Change On Pakistan

- 3.1 Impacts On Weather Conditions
 - 3.1.1 Torrential Rainfalls
 - 3.1.2 Irregular floods
 - 3.1.3 Landslides
 - 3.1.4 Un-usual fogs
 - 3.1.5 Sea level rise
 - 3.1.6 Global warming / Heat waves
 - 3.1.7 Droughts
 - 3.1.8 Glaciers melting
- 3.2 Impacts On Public Health
 - 3.2.1 Respiratory disorders
 - 3.2.2 Skin disorders
 - 3.2.3 Water borne diseases
 - 3.2.4 Increased Infant mortality
 - 3.2.5 Weak immune system
- 3.3 Impacts On Aquatic Life
 - 3.3.1 Disruption of ecosystem
 - 3.3.2 Acidification
 - 3.3.3 Hypoxia
 - 3.3.4 Extinction of species
- 3.4 Impacts On Economy
 - 3.4.1 Degradation of Coastal Infrastructure
 - 3.4.2 Decline of fisheries (threat to blue economy)
 - 3.4.3 Decline in maritime Tourism
 - 3.4.4 Exports decline
- 3.5 Impacts On Agriculture And Food supply
 - 3.5.1 Crop failure
 - 3.5.2 Food shortages
 - 3.5.3 Reduced productivity
 - 3.5.4 Droughts
 - 3.5.5 Loss of nutrients
 - 3.5.6 Soil erosion

Essay:

"Sirens are blaring across all major indicators. Some records are not just chart topping, they are chart busting and changes are speeding up." Antonio Guterres. The earth's climate has been evolving since it came into being. However, extreme climatic events have been observed in 21st century mainly due to increasing influence of human activities (burning fossil fuels, deforestation and greenhouse gas emission), and these have highlighted climate change as a global concern. Climate change refers to long term changes in average weather patterns on earth. It is hitting water resources of world, heat waves are more frequent and rainfall patterns are shifting due to global warming affecting some nations more than others in terms of magnitude and rate of change. Climate change influences South Asian monsoon, impacting agriculture, water resources and socio-economic stability. According to Global climate risk index, Pakistan is one of the most vulnerable nations when it comes to effects of climate change over past 2 decades with eighth rank among most affected countries though being minor contributor of green house effect. The causes of climate change in Pakistan include un-planned development, land pollution, air pollution and water pollution which create impacts on public health, aquatic life, economy, agriculture and food supply and weather conditions. Effective management strategies are needed to mitigate risks.