

Topic : Climate Change in Pakistan: Causes and Consequences

Brainstorming

Causes

- ① Burning of Fossil Fuels
- ② Emission of GHGs
- ③ Deforestation
- ④ Industrial Processes
- ⑤ Poor Waste Management
- ⑥ Urbanization
- ⑦ Plastic Use

Consequences

- ① Extreme Weather Events
- ② Fresh Water Scarcity
- ③ Glacial Retreat
- ④ Economic Instability
- ⑤ Migration
- ⑥ Human Health Issues

Outline

1 Introduction:

- 1.1 Hook
- 1.2 Supporting Sentences
- 1.3 Thesis Statement

2 Causes of Climate Change in Pakistan

- 2.1 Burning of Fossil Fuels
 - 2.1.1 Fossil Fuels as Non Renewable sources of energy
 - 2.1.2 Growing energy demand
 - 2.1.3 Domestic Coal Resources
 - 2.1.4 Lack of alternative energy infrastructure

2.2 Emission of Greenhouse Gases:

2.2.1 What are GHGs? and What they do?

2.2.2 How GHGs are accumulated in Atmosphere

2.2.3 Depletion of Ozone layer

2.3 Deforestation:

2.3.1 Low forest cover in Pakistan

2.3.2 Rate of loss of Forest

2.3.3 What forests do for us.

2.4 Industrial Processes:

2.4.1 Significant emission of harmful factors from Industries

2.4.2 Key Sectors in Pakistan

2.4.3 Reliance on Fossil Fuels due to energy demand

2.4.4 Plastic Pollution

2.4.5 Energy Intensive Industries

2.5 Poor Waste Management:

2.5.1 Release of smoke

2.5.2 Landfill and Dumpsites

2.5.3 Decomposition & burning of Waste

3. Consequences

3.1 Extreme Weather Events

3.1.1 Heatwaves - Karachi, South Punjab etc.

3.1.2 Unpredictable Monsoon Patterns

3.1.3 Droughts

3.1.4 High Temp in cities with deforestation

3.2 Fresh Water Scarcity and Glacial Retreat

3.2.1 Rising Temperature leading to Sinking & Melting of Glaciers

3.2.2 less snowfall leading to landsliding & Flooding

3.2.3 Need of Water is higher

3.2.4 Indus River dependency on Glaciers

3.2.5 Less availability of Water

3.3 Economic Instability

3.3.1 Agricultural Problems

3.3.2 ^{Extreme} Weather effecting seasonal crops

3.3.4 Floods & landslides leading to destruction of Infrastructure

3.3.5 Decrease in Wheat & Rice yield

3.4 Migration.

3.4.1 Displacement from Rural to major cities

3.4.2 Damage to villages by floods & droughts

3.4.3 Unemployment of farmers due to Agriculture fails

3.5 Human Health

3.5.1 More diseases of Respiration due to Smog

3.5.2 Skin Issues due to pollution

3.5.3 Malnutrition in Children in deserts like Thar

3.5.4 Deaths due to heatwaves

4 Conclusion;

The Essay

"There is one issue that will define The contours of this century more dramatically than any other, and that is the urgent threat of changing climate." (Barack Obama)

Climate Change has emerged as one of the most pressing challenges of 21st Century.

It has become an established fact and its impacts are quite visible around The globe. Pakistan is particularly vulnerable to climate change because of its warm climate.

Pakistan experiences longer span of warm season as compared to cold one. Pakistan is facing this issue for past few decades. Climate change in Pakistan, driven by burning of fossil fuel, emission of greenhouse gases, deforestation, industries and poor waste management, is leading to severe problems like severity of weather, fresh water scarcity, glacial retreat, economic instability and severe issues with human healths. Moving one's head into sand will not pass The hazard, it will be a more severe problem if not tackled wisely and timely.