

## Essay outline:

# Climate Change: Causes and Solutions

plz break it into short

## 1 Introduction:

Climate change has ~~dire~~ impact, however it can be tackled by certain measures if can be implemented properly.

## 2 Causes of ~~climate~~ change:

### 2.1 Green house gases emissions:

- Green house gases are increasing the global temperature  $1.1^{\circ}\text{C}$  since 1900, international policy on climate change.

### 2.2 Fossil fuel combustion:

- Globally, fossil fuel contributes to 76.1% of carbon emissions, International Energy Agency

### 2.3 Deforestation:

- Earth lose 120 million hectares of forest annually, Food and Agriculture Authority.

### 2.4 Emission of Methane from livestock:

- Emission of methane is 80% across the globe, which is trapping more heat, United Nation Environment protection.

well organized and relevant just one

suggestion

try to diversify your expression plz

## 2.5 Industrial emissions:

- Globally, industrial emissions are contributing 21% of carbon in the atmosphere. (Intergovernmental Panel on climate change)

## 2.6 Transport emissions:

- The transport sector contributes 24% of carbon emissions annually (Intergovernmental panel on climate change).

## 2.7 Energy inefficiency and loss:

- The outdated transmission lines of electricity causes further loss and increase heat. (International energy Agency)

## 2.8 Agricultural sector:

- Agricultural sector contributes to approximately 18% of carbon emissions annually. (Food and Agriculture organization)

## 3 Impacts of climate change:

### 3.1 Rising Temperatures:

- Green house gases are rising temperature annually across the globe. (Intergovernmental panel on climate change).

### 3.2 Heatwaves and Droughts:

- The temperature of Asia and Africa has raised to 50°C during 2023-2024. (World Meteorological organization)

### 3.3 Biodiversity Loss:

- deforestation is causing species at risk around 1 million. (Research on Biodiversity around globe)

### 3.4 Extreme weather events:

- Climate change has lost \$120 billion and caused huge impact on the lives. (The Guardian)

### 3.5 Industrial pollution is causing health damages:

- Air pollution kills 7 million peoples annually. (World Health organization)

### 3.6 Urban flooding and Smog:

- Cities like Delhi, Lahore has experienced PM 2.5 levels above safe limits. (Swiss air quality technology)

### 3.7 Energy crisis and Higher costs:

- The loss of energy is causing 30-40% increase in demand and prices. (International Energy Agency)

### 3.8 food insecurity:

- Climate change could reduce crop yield by 10-20% by 2050. (Food and Agriculture Organization)

### 4 solutions to mitigate climate change:

#### 4.1 Reduce Green House gases emissions:

- Set net zero targets & adopt carbon taxes. (Intergovernmental panel on climate change)

#### 4.2 Shift to Renewable Energy sources:

- Shift to clean energy processes can cut 75% of carbon emissions. (International Energy Agency)

#### 4.3 Reforestation and forest protection:

- Restoring forests could absorb upto 200 billion tons of carbon. (Food and Agriculture organization)

#### 4.4 Methane reduction program:

- Proper livestock management can reduce methane 30% globally. (World Health Organization)

#### 4.5 Clean industrial technology:

- Green hydrogen and carbon capture reduce industrial emissions sharply.

(Intergovernmental panel on climate change)

#### 4.6 Sustainable urban planning:

- Promote green transport, mass transit and low emission zones.

diversify your

#### 4.7 Improve Energy Efficiency:

- Energy Efficient Systems can cut emissions by 15-20%. (International Energy Agency)

#### 4.8 Climate Smart Agriculture:

- Drought resistant crops, and smart irrigation practices could reduce emissions and increase crop yield. (Food and Agriculture organization)

#### 5 Conclusion: