

Essay outline:

Climate Change: Causes and Solutions

1 Introduction:

Climate change has a drastic impact, however it can be tailored by certain measures if it 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°C since 1900, Intergovernmental policy on climate change.

2.2 Fossil fuel combustion:

- Globally, fossil fuel contributes to 76% 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.

plz break it into short sentences to make it more meaningful

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- The outdated transmission lines of electricity causes further loss and increase heat.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 Temperature:

- 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 $\text{PM}_{2.5}$ 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 up to 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.

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: