

ESSAY:

CLIMATE CHANGE: CAUSES AND CONSEQUENCES

Outline of the Essay

1. INTRODUCTION:

1.1 Hook

1.2 Background

1.3 Thesis statement: The natural causes

of climate change are volcanic eruptions, fluctuations in solar radiation, tectonic shifts and changes in Earth's orbit. The anthropogenic causes of climate change are transportation, electricity generation, Industry and manufacturing, agriculture, oil and gas development, deforestation and buildings. The consequences of climate change are evident across multiple dimensions including food, water, human health, infrastructure and the environment.

2. Understanding the key variable

2.1 What is climate change?

2.2 Climate change over the centuries

3. Causes of climate change

3.1 Natural causes

3.1.1 Volcanic eruptions

3.1.2 fluctuations in solar radiation

3.1.3 movement of tectonic plates

3.1.4 changes in Earth's orbit

3.2 Anthropogenic (Human-driven) causes

3.2.1 Using Transportation

3.2.2 Industrial activities and manufacturing goods

3.2.3 Oil and gas development

3.2.4 Generating electricity

3.2.5 Cutting down forests

3.2.6 Powering buildings

3.2.7 Engaging in agricultural activities

4. Consequences of climate change

4.1 Food insecurity

4.1.1 Reduced food availability

4.1.2 Limited food accessibility

4.1.3 Inefficient food utilization

4.1.4 Instability in food supply and access

4.2 Water crisis

4.2.1 Flooding and rising sea levels

4.2.2 Droughts and wildfires

4.2.3 Water cycle disruption

4.3 Health crisis

4.3.1 Malnutrition and food-borne diseases

4.3.2 Water-borne and vector-borne diseases

4.3.3 Heat-related and respiratory illnesses

4.3.4 Zoonoses and noncommunicable diseases

4.3.5 Mental and psychosocial health

4.4 Infrastructure risks

4.4.1 Vulnerability of air and maritime infrastructure

4.4.2 Vulnerability of Road and Rail infrastructure

4.4.3 Vulnerability of energy and
Telecommunications infrastructure

4.4.4 Vulnerability of water infrastructure

4.4.5 Vulnerability of social infrastructure

4.5 Environmental degradation

4.5.1 Arctic amplification

4.5.2 Ocean acidification

4.5.3 Coral bleaching

5. Adaptation and mitigation measures to

5.1 Adaptation strategies

5.1.1 Global Goal on Adaptation of
the Paris Agreement

5.1.2 Adaptation cycle

5.1.3 Resilient infrastructure and
early warning systems

5.1.4 Drought-resistant crops and
water conservation strategies

5.2 Mitigation measures

5.2.1 Protecting and restoring
ecosystems

5.2.2 Transition to renewable energy
and energy efficiency

5.2.3 efficient transport, carbon
tax and emission markets

6. Conclusion