

# Climate Change: Causes and Consequences

## Outline:

### 1) Introduction

1.1) Attention Grabber

1.2) Thesis Statement

### 2) Causes of Climate Change

2.1) Industrialization

- Cement industry alone responsible for 8% of global CO<sub>2</sub> emissions.

2.2) Greenhouse Gas Emissions

- In 2020, global CO<sub>2</sub> emissions around 35 bn metric tons.

2.3) Deforestation

- Between 2015 and 2020, the world lost 10 million hectares of forests per year.

## 2.4) Burning Fossil Fuels

- Energy production accounts for 73% of global greenhouse gas emissions.

## 2.5) Inefficient Waste Management.

- Landfills account for 3-5% global greenhouse gas emissions.

## 3) Consequences of Climate Change.

### 3.1) Global Warming

- World temperature risen  $1.2^{\circ}\text{C}$  since late 19<sup>th</sup> century.

### 3.2) Rising Sea Levels.

### 3.3) Extreme Weather Events

- Unprecedented heatwaves around the world.

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- Torrential rainfall in Dubai and Saudi Arabia

### 3.4)- Biodiversity Loss

- Approximately 1 million plants and animals at risk of extinction.

### 3.5)- Air Pollution

- 90% people breathe unhealthy air around the world.

### 4) Solutions

- Transition to renewable energy
- Afforestation and Reforestation
- Waste Reduction and Management
- International Cooperation
- Environmental Awareness.

### 5) Conclusion

## Essay

In 2014, the residents of an island of Papua New Guinea embarked on one of the world's first climate-induced migrations. Severe storms and rising sea levels were endangering their homes and making agriculture impossible. As a result, the islanders, who had lived there for generations, were forced to abandon their homeland. This heartbreaking relocation highlights the cost of climate change — a pressing global issue. Climate change is primarily driven by human activities such as burning fossil fuels, deforestation, and industrial processes. These actions release significant amounts of greenhouse gases like carbon dioxide and methane into the atmosphere, increasing the natural greenhouse effect. This results in

extreme weather events, rising sea levels and disruptions in biodiversity. It is important to understand the causes and consequences of climate change in order to tackle it efficiently. This essay explores the key factors responsible for climate change and its widespread consequences.