

# "The Threat of Global Warming and the Ways to Counter it"

## 1- Introduction to Global Warming

### a- Definition of global warming.

- understanding global warming and its distinction from climate change.

### b - Overview of Green House Gases and Their Effects.

- Major green house gases ( $\text{CO}_2$ ,  $\text{CH}_4$ ,  $\text{N}_2\text{O}$ ) and their role in warming the planet.

### c - Historical Context and Current Trends.

- Historical  $\text{CO}_2$  levels and temperature trends.

## 2 - Threats of Global Warming.

### a- Rising Temperature :

- Impact on Weather Patterns  
e.g. 2003 European heatwave.
- Effect on Ecosystem and Wildlife.  
e.g. Polar bear habitat loss in Arctic.

### b - Melting Ice Caps and Glaciers :

- Consequences for Sea levels  
e.g. Rising sea level threatening maldives.
- Impact on Polar and Coastal.  
e.g. Retreat of the Greenland ice sheet.

### c - Extreme Weather Events :

- Increased frequency and severity of floods  
e.g. Hurricane Katrina in 2005.

- Economic and Social Impacts:  
e.g. The 2010 Pakistan floods and their economic toll.

### 3- Ways to Counter Global Warming:

#### a- Mitigation Strategies:

- Reduction of Green house gas emissions  
e.g. Success of Denmark's wind energy policy.

#### b- Adaptation Strategies:

- Developing Early warning systems.  
e.g. Japan Earthquake early warning system.

#### c- Policy and Legislation:

- International agreement.  
e.g. The Paris agreement and its goals.

#### d- National and local Policies.

- e.g. California's emissions reduction targets and their impacts.

### 4- Conclusion:

- Summary of key points.
- The importance of collective actions.
- Future outlook and ongoing challenges.