



Climate Change:

An Urgent Global Challenge

Definition and Causes of Climate Change

Definition:

- Long-term alterations in temperature and weather patterns, primarily driven by human activities since the 19th century.

Causes:

- Burning fossil fuels (coal, oil, gas)
- Deforestation
- Industrial processes

Result: Increased greenhouse gases (GHGs) like CO₂ in the atmosphere





Effects of Climate Change

Global warming: Rising average temperatures

Extreme weather events: More frequent and severe hurricanes, droughts, heatwaves, and heavy rainfall

Environmental shifts: Melting ice caps and glaciers, rising sea levels, disrupted ecosystems

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Impacts of Climate Change

Agriculture: Crop yields affected by changing weather patterns

Water Resources: Altered availability and quality

Human Health: Increased risks from heatwaves, diseases, and poor air quality

Economies: Financial losses from disasters and adaptation costs



A large, clear lightbulb is positioned on the left side of the image. The background behind the lightbulb is a dense, vibrant green foliage, possibly clover or a similar leafy plant. The lightbulb has a black base and a clear glass body. The overall image conveys a message of environmental friendliness and sustainable energy.

Solutions for Climate Change

Mitigation: Reducing GHG emissions, transitioning to renewable energy, enhancing energy efficiency

Adaptation: Building resilient infrastructure, protecting coastal areas, ensuring sustainable water and food supply

Global Cooperation: Paris Agreement and other international efforts

Public Awareness and Education: Promoting sustainable practices and behaviours

Conclusion

A background image featuring a white wind turbine on a rolling hill under a clear blue sky with a few wispy clouds. The turbine is positioned on the right side of the frame, and the hills are depicted with soft, wavy lines in shades of light blue and white.

Addressing **Climate Change** requires immediate, sustained action and global cooperation to mitigate impacts and ensure a sustainable future.