



The Impact of Climate Change: Understanding Our Role

An inspiring journey to explore climate change and our role in its mitigation.



A Place Known By All Men

Exploring the vivid beauty of nature and the looming threat of climate change

The Four Major Greenhouse Gases

Understanding the Key Contributors to Climate Change



Carbon Dioxide (CO₂)

Released from burning fossil fuels (coal, oil, natural gas), deforestation, and land-use changes.

Methane (CH_4)

Produced during the breakdown of organic matter in landfills, agriculture (especially from livestock), and natural gas production.

Nitrous Oxide (N₂O)

Emitted from agricultural and industrial activities, as well as during combustion of fossil fuels and solid waste.

Chlorofluorocarbons (CFCs)

Historically used in refrigeration, air conditioning, foamblowing agents, and aerosol propellants.

NASA: Guardians of Our Planet

Understanding Climate Change Through Satellite Monitoring

Role of NASA

Positioned as guardians, NASA plays a pivotal role in climate research and monitoring.

Human Activities

Human activities exacerbate climate change, highlighting the need for monitoring and action.



Satellite Monitoring

NASA utilizes advanced satellites to monitor Earth's changes, offering critical data.

Predicting Climate Scenarios

The data collected helps scientists predict future climate scenarios, aiding preparedness.

Understanding Climate Impacts

NASA's efforts improve our understanding of climate impacts, guiding global response strategies.

1,809

Over 1,809 fatalities in Kerala, India.

Over a decade from 2010 - 2024 heavy rains led to tragic losses, showcasing the severe impact of climate change. 11,457

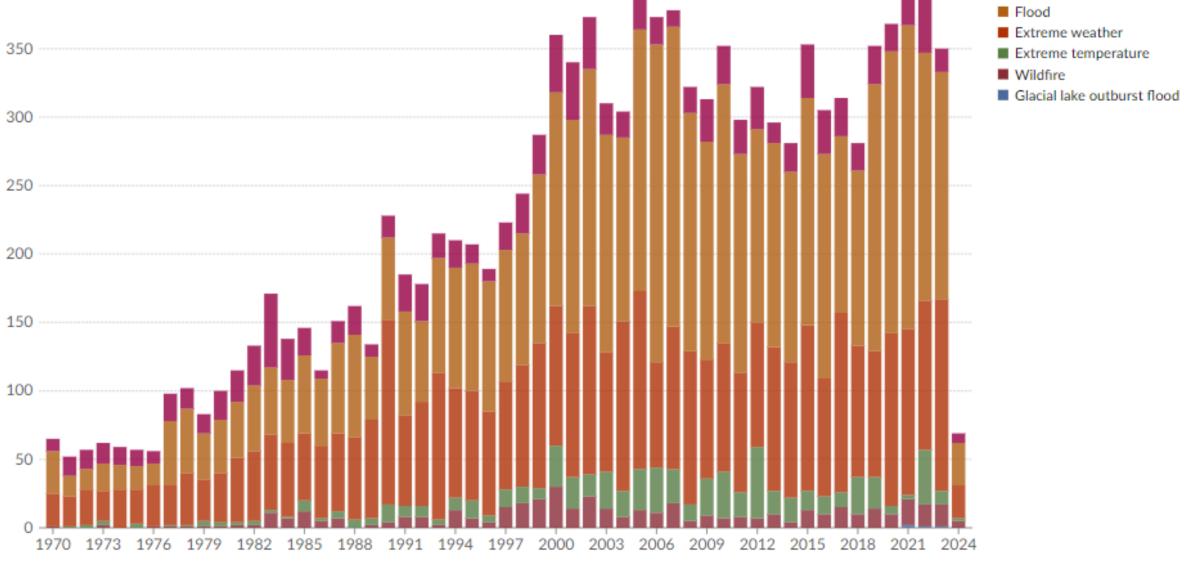
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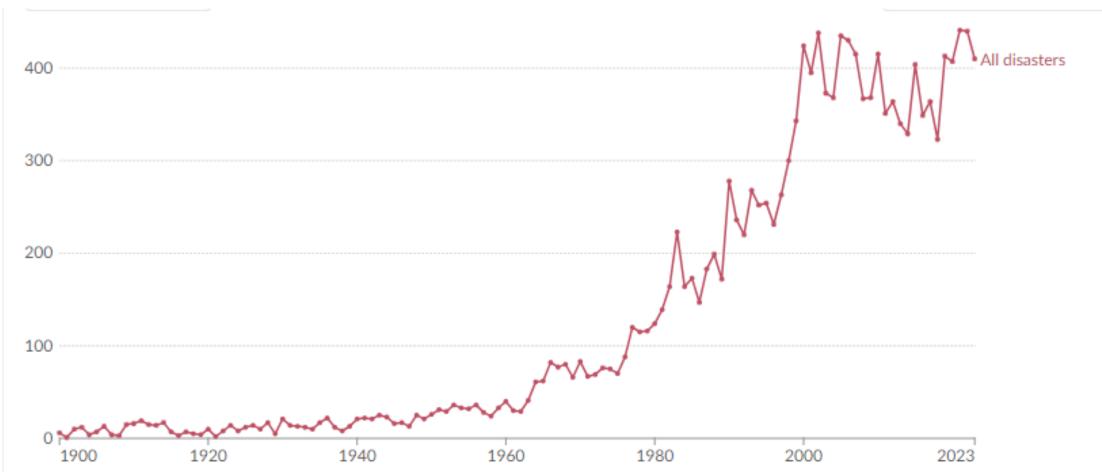
Extreme Weather Events: A Human Story

Devastating floods in South Asia highlight climate change impacts.





Drought



CASE STUDY

On increasing greenhouse gases and the climate change caused by it

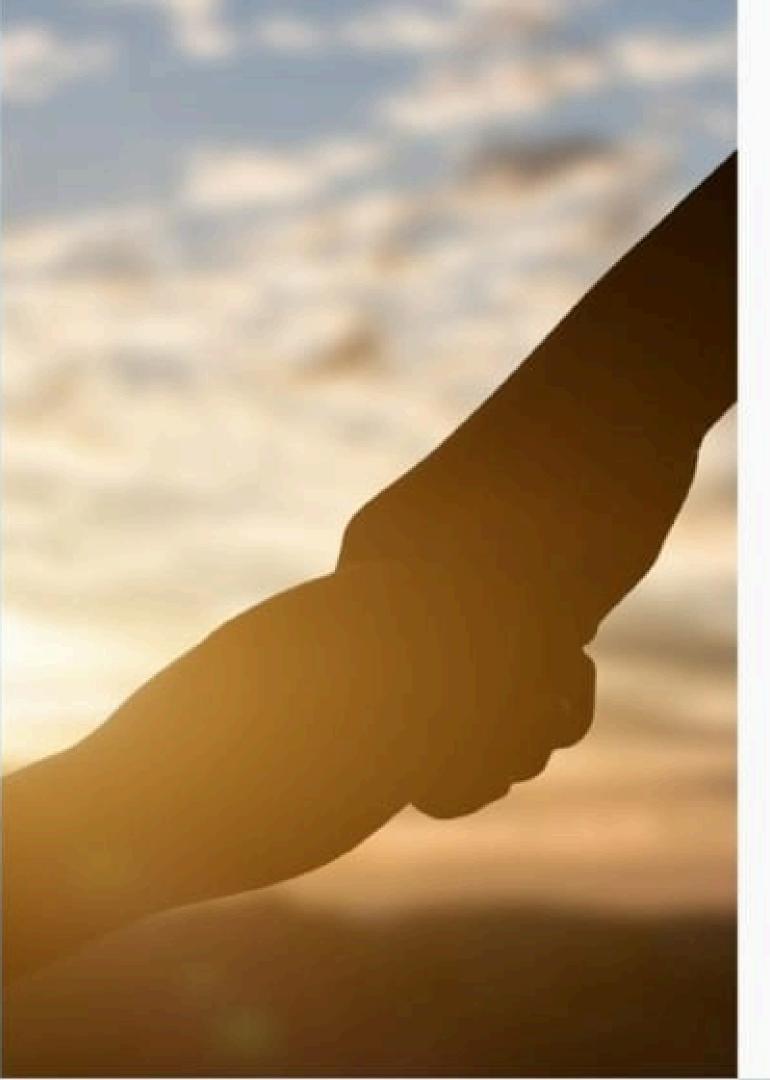
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Greenhouse Gas Emissions by Sector

Understanding the Impact of Energy Production on Climate Change

Sector	Greenhouse Gas	Source	Impact
Electricity	CO2	Fossil Fuels (54% by 2026)	Major contributor to climate change
Agriculture	CH-	Livestock and Rice Production	Sneaky emissions affecting warming
Fertilizers	N₂O	Chemical Fertilizers	Quiet but significant warming agent
efrigeration	CFCs	Older Refrigerants	Once useful, now harmful to ozone





A Call to Action: Our Role

Envision a future where every individual contributes to protecting our planet.

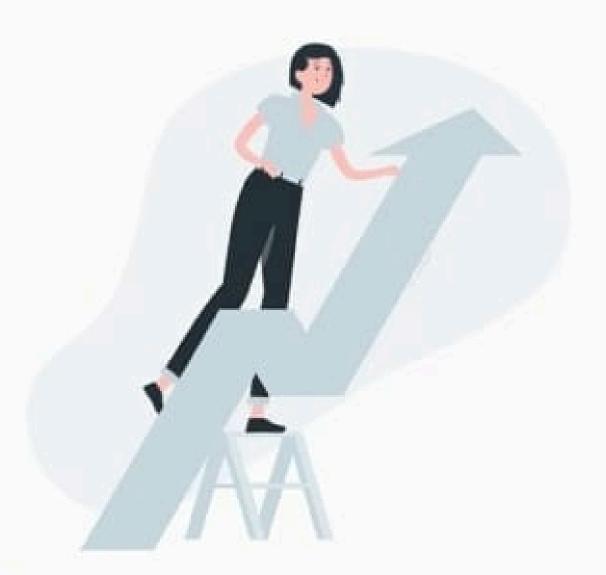
A FEW THINGS WE CAN DO

- Reduce Energy Use
- Limit Car Travel
- Minimize Waste
- Support Sustainable Practices



Conclusion: The Journey Continues

Engage with us in the fight against climate change for a sustainable future.





Presented by

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