

**EXISKY SPACE**



# 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





## **Methane (CH<sub>4</sub>)**

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

## **Carbon Dioxide (CO<sub>2</sub>)**

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

## **Nitrous Oxide (N<sub>2</sub>O)**

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, foam-blowing agents, and aerosol propellants.

# NASA: Guardians of Our Planet

Understanding Climate Change Through Satellite Monitoring



# Extreme Weather Events: A Human Story

Devastating floods in South Asia highlight climate change impacts.

# 1,809

Over 1,809 fatalities in Kerala,  
India.

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

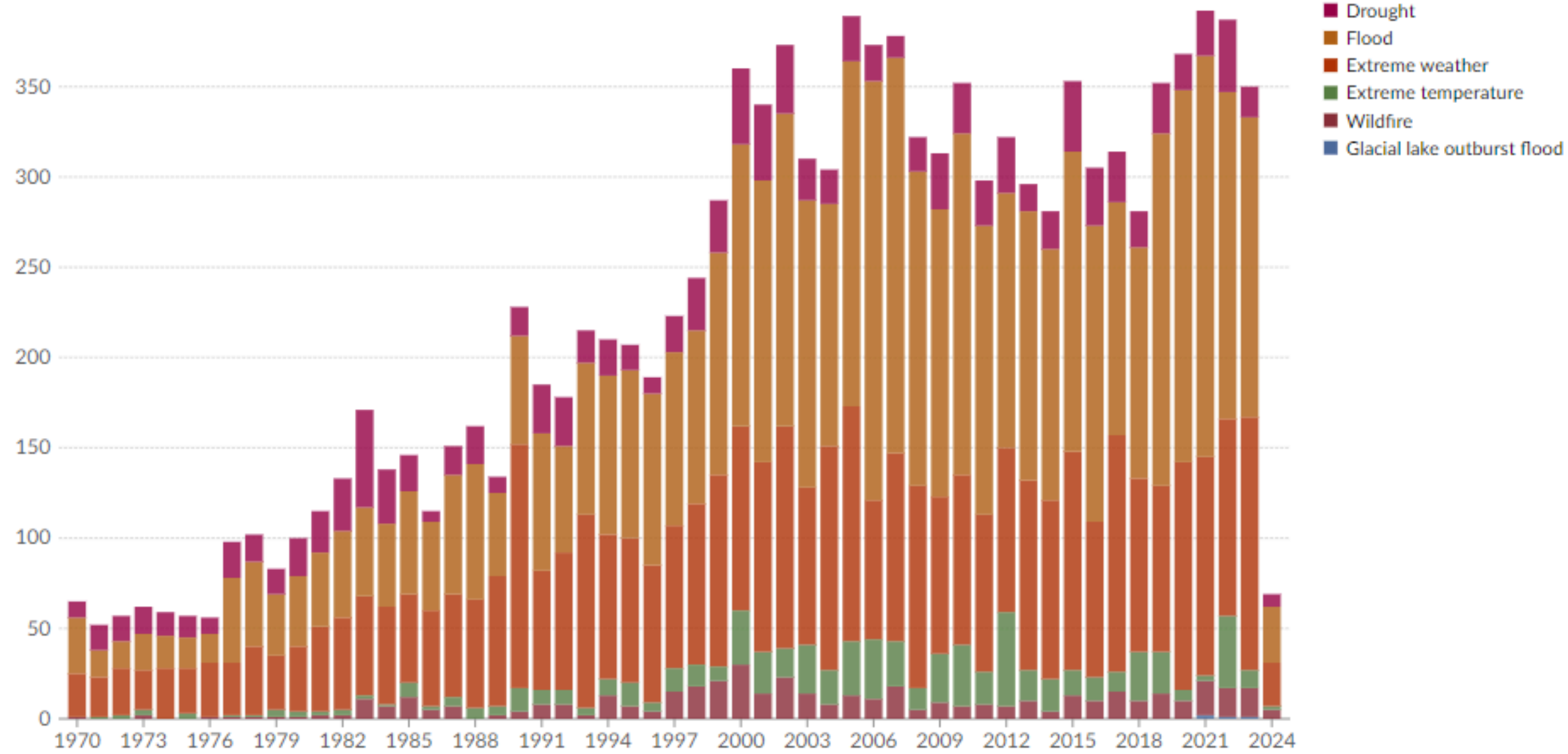
# 11,457

Over 11,457 fatalities in India.

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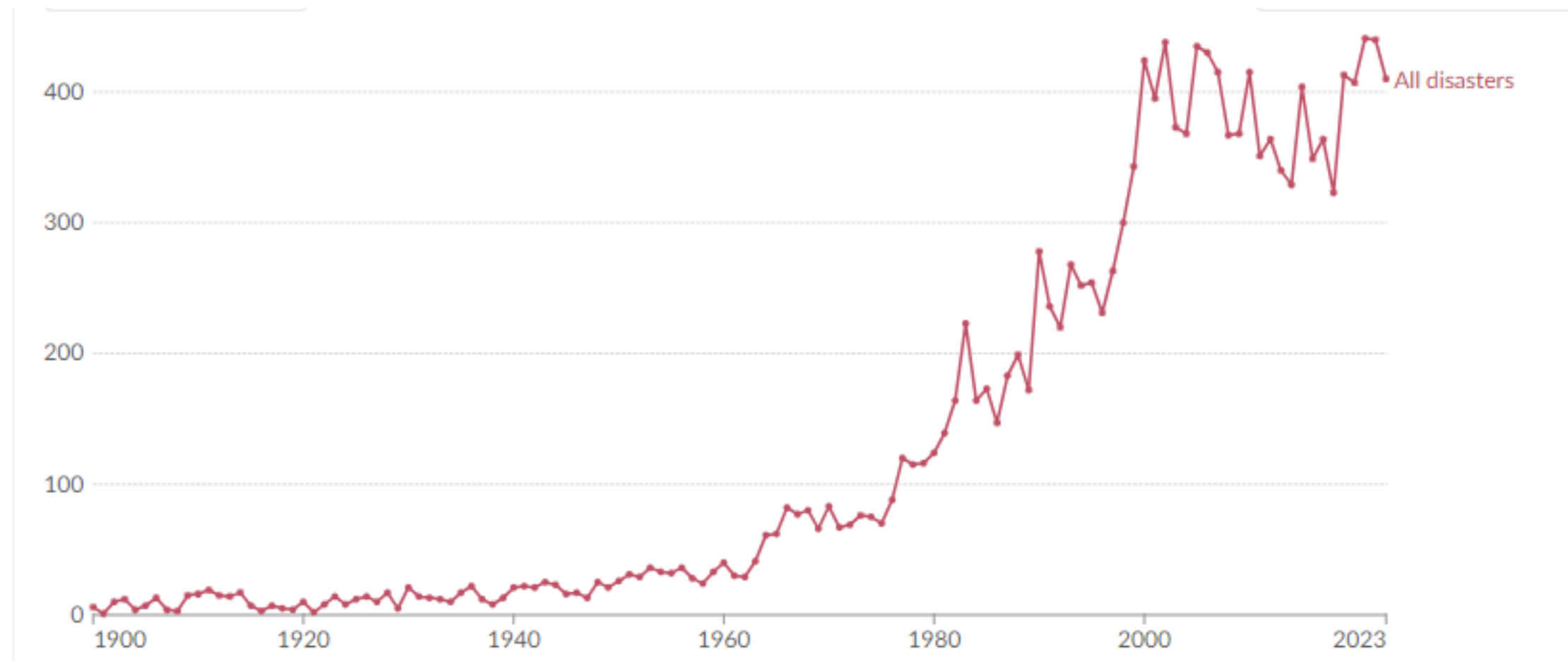
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# CASE STUDY

On increasing greenhouse gases and the climate change caused by it

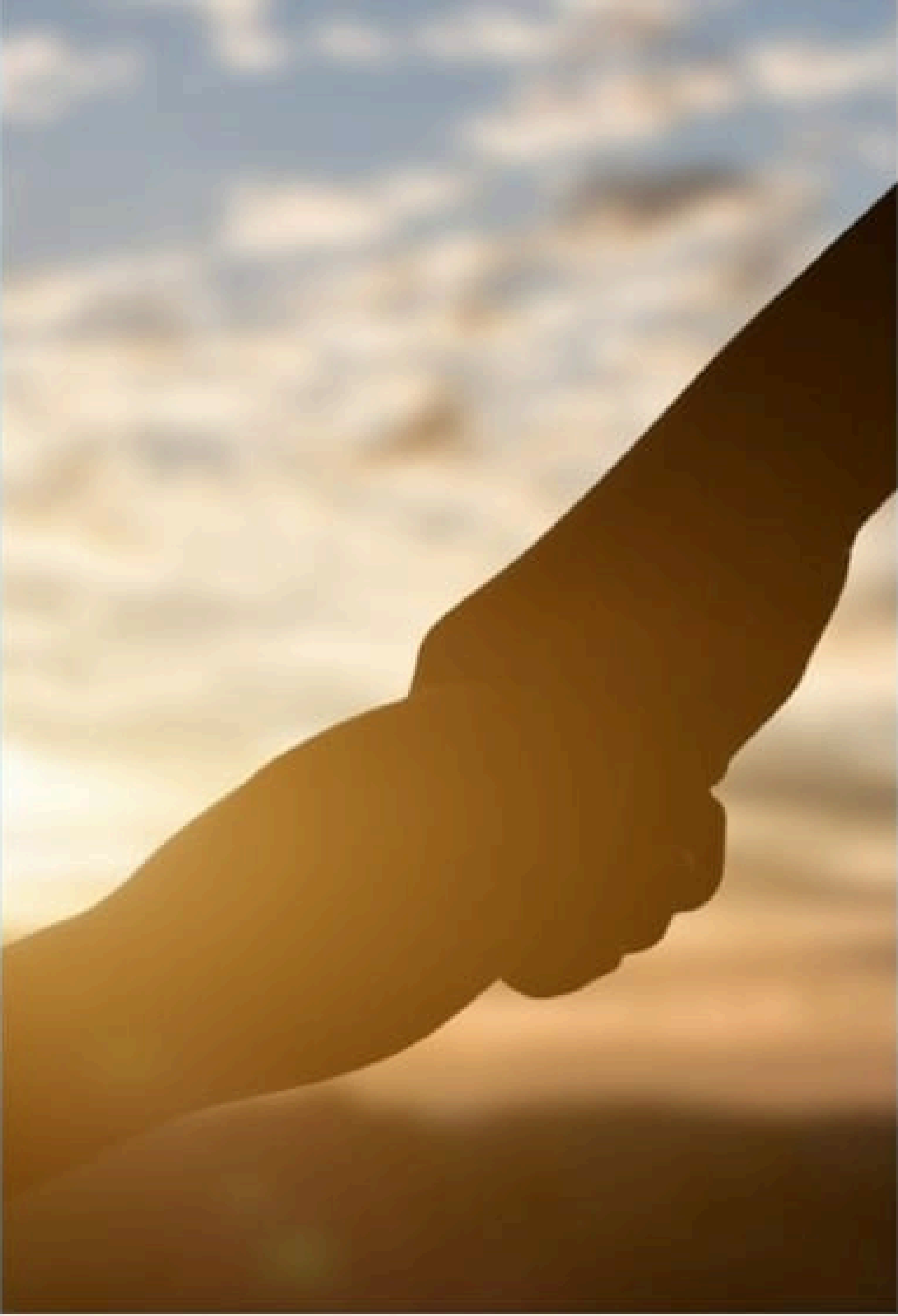




# Greenhouse Gas Emissions by Sector

Understanding the Impact of Energy Production on Climate Change

Sector	Greenhouse Gas	Source	Impact
Electricity	CO <sub>2</sub>	Fossil Fuels (54% by 2026)	Major contributor to climate change
Agriculture	CH <sub>4</sub>	Livestock and Rice Production	Sneaky emissions affecting warming
Fertilizers	N <sub>2</sub> O	Chemical Fertilizers	Quiet but significant warming agent
Refrigeration	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.



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Presented by

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