

**13 CLIMATE
ACTION**



CLIMATE ACTION

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Age: 13

Stage : KS3

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Sustainable Development Goal # 13 – Climate Action



Basic Information

Decade between 2010 - 2019 was the warmest decade recorded in history. Currently climate change is affecting the global community in each country of the world. Its impact affects not only national economies, but also lives and livelihoods, especially those in vulnerable conditions.

The emissions of green house gases in developing countries are up by 43% in the period between 2000 and 2013. Carbon dioxide is one of the green house gas that affects the atmosphere more and contributes to climate change. Human activities since the beginning of the Industrial Revolution (around 1750) have produced a 45% increase in the atmospheric concentration of carbon dioxide.

Issue

Climate change continued exacerbating the frequency of natural disasters, such as massive wildfires, droughts, hurricanes and floods, affecting more than 39 million of people . At current greenhouse gas emission rates, temperatures could increase by 2 °C (3.6 °F), which the United Nations' Intergovernmental Panel on Climate Change (IPCC) designated as the upper limit to avoid "dangerous" levels, by 2036.

Who and what is impacted by the Climate Change



Who is Impacted

Climate change is affecting almost everyone in the world. Climate change is affecting every country on every continent. It is disrupting national economies and affecting lives. Weather patterns are changing, sea levels are rising, and weather events are becoming more extreme.

What is Impacted

❖ Life in land

- Humans - More than 39 million of people are affected by increased frequency of natural disasters like hurricanes, earthquakes, wildfires etc
- Animals – More frequent and intense drought, storms, heat waves, rising sea levels, melting glaciers and warming oceans can directly harm animals, destroy the places they live
- Birds – warming may also be affecting the timing of spring vegetation blooms or the abundance of insects and other food sources—factors that can strongly affect the survival of migrating birds, Rare breeding birds face extinction

❖ Life in the water

- Ocean water - Seawater contains more dissolved carbon dioxide, causing ocean acidification
- Fish – Migrating from one region to another for the right temperature and may endanger fish in that region
- Underwater plants - acidification and reef erosion, extensive coral bleaching

Where in the world is the issue most prevalent / in need of resolving



Climate change is amplified in the polar regions. The earth's north and south extremities are crucial for regulating our planet's climate and are particularly vulnerable to the impacts of global warming, which has global consequences.

- JAPAN (Climate Risk Index: 5.5)
- PHILIPPINES (Climate Risk Index: 11.17)
- GERMANY (Climate Risk Index: 13.83)
- MADAGASCAR (Climate Risk Index: 15.83)
- INDIA (Climate Risk Index: 18.17)
- SRI LANKA (Climate Risk Index: 19)
- KENYA (Climate Risk Index: 19.67)
- RUANDA (Climate Risk Index: 21.17)
- CANADA (Climate Risk Index: 21.83)
- FIJI (Climate Risk Index: 22.5)



Why it should be resolved

ANNUAL BENEFITS

From large-scale mitigation **by 2030**


CLIMATE



**AVOIDED
WARMING**


REDUCED RATE
OF SEA-LEVEL RISE
BY ~20% BY 2050


REDUCED RATE
OF MELTING


REDUCED RATE
OF SEA-LEVEL RISE
BY ~20% BY 2050

HEALTH



**2.4
MILLION**


AVOIDED PREMATURE
DEATHS ANNUALLY
FROM OUTDOOR
AIR POLLUTION

REDUCED AIR POLLUTION
- WORLD'S LARGEST
ENVIRONMENTAL HEALTH RISK

CROPS



**52
MILLION**

TONNES OF AVOIDED
CROP LOSSES FROM
4 MAJOR STAPLES YEAR

What barriers stand in the way of resolving the issue?



- Budget allocation to Climate action SDG is 681 billion USD where as for fossil fuels is 781 billion USD
- Modern living is part of the problem i.e., modern conveniences like electricity, transportation, and air conditioning contribute to climate change, but the alternatives are still expensive and no free lunch for those
- CO₂ is a global pollutant that can't be locally contained
- Developing countries contribute to a large share of pollution, but that is not their priority



How to resolve the issue

- Increase the budget for climate action goal, so that money can be put in alternatives solution to carbon emission systems
- Educate people on global warming
- Collect money from people who are contributing to adverse climate change
- No Bailout for polluting industries
- End of fossil fuels subsidies
- Invest in Green jobs
- Find innovative solution and offer it for free to start with to improve the usage of the solutions
- Few simple solutions that individuals can adapt are:

- 5-Minute Showers
- Bring Own Bag
- Drive Less
- Lights Off
- Local Produce
- Plant-based Meals
- Recycle
- Refill and Reuse
- Unplug
- Zero-Waste Fashion



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LET'S MAKE A CHANGE...

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