

Climate change and its impact on global sustainability.

Outline.

1. Introduction:

Thesis statement:

Climate change poses multiple impact on global sustainability such as disturbing ecosystem, human health and economic stability. Urgent action is needed to mitigate.

2. Defining climate change and global sustainability.

3. Climate change and its impact on global sustainability:

- 3a. loss of biodiversity and ecosystem
- 3b. Increasing temperature of heatwaves, droughts and floods.
- 3c. loss of agriculture production
- 3d. Damaging infrastructure and property
- 3e. Social and humanitarian challenges
- 3f. Declining human health and food insecurity

3g. Rising temperatures and extreme weather events.

3h. Migration and displacement.

4. Way Forward to mitigate:

4a. Educating and Engaging the public

4b. Shifting to renewable energy sources

4c. Seminar and meetings nationally and Internationally.

5. Conclusion.

Essay:

"Climate change is happening, humans are causing it, and I think this is perhaps the most serious environmental issue facing us"

Bill Nye, an American educator and engineer clearly said that humans are causing climate change. Climate change is one of the most serious issues of global, with far reaching consequences for human health and economic stability. Climate change and global sustainability

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both are interdependent on each other. If climate is good, global sustainability is good and vice versa. Due to human activities, climate change poses significant impacts on global sustainability such as loss of biodiversity, disturbing ecosystem, increasing temperature of heatwaves, heavily droughts and floods, declining human health and food insecurity. These impacts are widespread however, by taking urgent steps to mitigate is necessary. Some steps include Educating and Engaging the public, relay and shifting to renewable energy, and annually meetings at nationally and internationally as conference of parties (COP), kyoto protocol, and green plantation. This essay will explore the impacts of climate change on global sustainability, as well as potential solutions and actions to mitigate its impacts and effects. Moreover, best work towards a more sustainable future for all. The time is to act now. In a nutshell, Earth is home. It is crucial that individuals,

organizations and governments take immediate steps.

As far as the definitions of climate change and global sustainability include, climate change is dominant factor in global warming due to an increase in average global temperature, caused by human activities such as burning fossil fuels, deforestation and industrial agriculture. Moreover, Global sustainability include ability of the planet to maintain ecological, social and economic system in a healthy environment. Due to human activities such as deforestation, less plantation and fossil fuels, global sustainability is badly effected. Both are interconnected, as climate change is a significant threat to global sustainability, and addressing sustainability can help mitigate climate change. Some major impacts are discussed under.

Climate change majorly impact on loss of biodiversity and ecosystem due to human activities

"Ecosystems are suffering like parts of Amazon rainforest are turning from carbon sinks into carbon sources due to deforestation". Moreover biodiversity also declining as 60% of the world ecosystem are degraded and 30% of the plant and animal species are threatened with Extinction (UNEP).

Ecosystem and Biodiversity are altering with climate change and due to this global sustainability is highly declining. Protecting and restoring ecosystems and biodiversity is crucial.

Moreover, the increasing temperature of heatwaves, droughts and floods are also impacting global sustainability. According to the PMD, in 63 years the highest temperature recorded in August 2023 was 46.5°C in Balochistan's turbat city. One other triggering concern of heatwaves points out by IPCC is Heatwaves are projected to increase by 50% by 2050. As far as

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the floods is concerned, According to UN record 2019 saw the highest number of floods. Now coming towards droughts, According to IPCC droughts are projected to increase by 20% by 2050. These all reports are threatening to global sustainability. Keen observation is needed in all factors.

Furthermore, Climate change is destroying global agriculture, losses in crop yields, food security and livelihoods.

According to NASA, 5% decline in global wheat and maize yields (2010-2020). Due to heavy rainfalls, heatwaves and floods putting obstacles in the way of agriculture production. To overcome this, must support smallholder farmers, who are most important to climate change.

Climate change is also impacting global infrastructure such as dams filling, eroding, building downfall. These all are

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leading towards economic and property lost. According to OECD \$100 billion annual loss in global infrastructure productivity by 2050.

By this global sustainability is declining. To overcome this, water management practices and investments are needed here.

Similarly, climate change is hitting social and humanitarian crises worldwide.

With increasing temperature and bad weather people are displacing, no harmony in society.

Social inequalities are also pointing out in the report of WHO, according to WHO, 80% of

climate-related disasters deaths occur in low and

middle income countries. Human

rights is necessary to overcome this issue.

likewise, climate change is having devastating impact on human health and food insecurity due to over

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population. According to WHO, climate change is projected to increase global nutrition by 20% by 2050. While 1 in 9 people worldwide already lack access to sufficient food. By promoting health care system and support this can be overcome.

Lastly, climate change in which migration and displacement is impacting global sustainability. Rising temperature and extreme weather events are displacing communities. According to Prof. Petteri Taalas (Secretary General of WMO) "Heatwaves, heavy rains, floods, tropical cyclones and droughts are having devastating impacts on migration and displacement in communities and economies. 143 million people displaced due to climate change by 2050. This all shows that climate is badly impacting on global sustainability. Now giving some

way forward to mitigate these impacts.

By explained impacts, now shading. Light on some urgent steps to mitigate is Educating and Engaging the public. Public can play important role as individuals, governmental and collectively. By giving awareness and doing activities like green plantation.

On the other hand, Shifting to renewable energy sources is crucial step towards mitigating climate change and achieving a global sustainable future.

Renewable energy sources like solar, wind, hydro and geothermal to more reliable and cost effective alternative to fossil fuels. According to IRENA, renewable energy can reduce ~~emissions~~ emissions by 78% by 2050. This step is helpful to mitigate the impacts of climate on global sustainability.

Similarly, Seminars and meeting at nationally and internationally level is also play important role in sustainability. Annually meeting like conference of parties (COP-28), Kyoto protocol, green planation, sustainability Week (15 to 19) April 2024. These steps are highly important to mitigate the climate change and to achieve sustainability.

In a nutshell, Climate change play significant threat to global sustainability, impacting ecosystems, human health and economic stability. It is crucial that individuals, organizations and governments take immediate and collective action to mitigate the effects of climate change. By transferring to renewable energy sources, modern technologies, reforestation, engaging in policy change. This leads ~~us~~ towards a more

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sustainable future for all
this is the right time
to act now.