

CLIMATE CHANGE AND ITS IMPACT

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Abstract-

The impacts of climate change on different sectors of society are interrelated. Drought can harm food production and human health. Flooding can lead to disease spread and damages to ecosystems and infrastructure. Human health issue can increase mortality, impact food availability and limit worker productivity. So researcher tries to aware about climate change and its impact through this paper.

Also we know how we all are responsible for this problem creation. So we have to solve this problem. It's our responsibility. The purpose of this paper is to create awareness about climate change and its impact among all human beings.

Keywords - Climate change, Impact.

Introduction-

In Common usage climate change describes global warming the ongoing increase in global average temperature and its effects on Earth's climate system. Climate change in a border broader sense also includes previous long term changes to Earth's Climate. The current rise in global average temperature is more rapid than previous changes, and is primarily caused by humans burning fossil fuels. Fossil fuel use, deforestation, and some agricultural and industrial practices increase greenhouse gases, notably carbon dioxide and methane. Greenhouse gases absorb some of the heat that the Earth radiates after it warms from sunlight. Larger amount of these gases trap more heat in Earth's lower atmosphere, causing global warming.

Due to climate change deserts are expanding, while heat waves and wildfires are becoming more Common. Increased warming in the Arctic has contributed to melting permafrost, glacial retreat and sea ice loss. Higher temperature are also causing more intense storms, droughts and other weather extremes.

Rapid environmental change in mountains coral reefs, and the Arctic is forcing many species to relocate or become extant. Even if efforts to minimize future warming are successful, some effect will continue for centuries. These include ocean heating, ocean acidification and sea level rise.

Due to climate change human beings will remain always in so many problems. Through this paper researcher tries to aware about this dangerous situation and triesto minimize affect of climate change and save environment.

Objectives of the Research paper.

Objectives of the research paper are as follows-

- 1) To study the concept of climate change.
- 2) To study the Impact of climate change.
- 3) To study the causes of the climate change.
- 4) To study the solutions to the climate change.

Interpretation-

Concept of climate change -

Climate change is the significant variation of average weather conditions becoming, for example warmer, wetter, or drier over several decades or longer. It is the longer term trend that differentiates climate change from natural weather variability.

Climate change knowledge portal (CCKP) -

The climate change knowledge portal (CCKP) provides global data on historical and future climate, Vulnerabilities, and impacts. Explore them via country and watershed views. Access synthesized country profiles to gain deeper insights into climate risks and adaptation actions.

The World Bank created the climate Change knowledge Portal to solve a need.

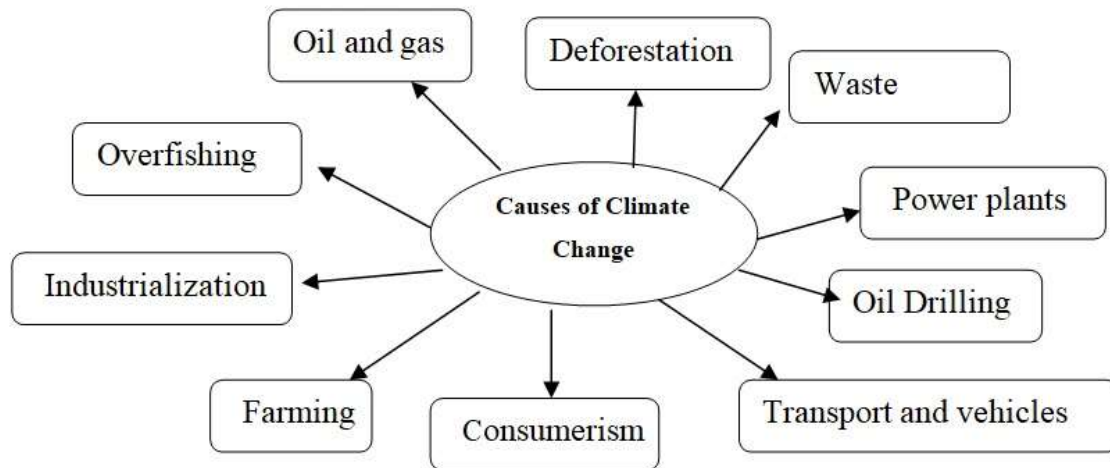
In an effort to serve as a "one stop shop" for climate related information, data, and tools, the World Bank created the climate change knowledge portal (or CCKP). The portal provides an online tool for access to comprehensive global, regional, and country data related to climate change and development.

Climate change in simple definition-

Climate change refers to longterm Shifts in temperature and weather patterns. These shifts may be natural, such as through variations in the solar cyclebut since the 1800s, human activitieshave been the main driver of climate change, primarily due to burning fossil fuels like coal, oil and gas.

Causes of climate change-

Causes of global warming that are contributing to the climate crisis

**1) Oil and gas-**

Oil and gas used all the time in almost every industry. It is used the most in vehicles; buildings, production & to produce electricity. When we burn coal, oil & gases it largely adds to the climate problem. The use of fossil fuels is also a threat to wildlife & the surrounding environments, because of the toxicity it kills off plant life and leaves areas uninhabitable.

2) Deforestation-

Deforestation is the Clearance of woodland and forest, this is either done for the wood or to create space for farms or ranches. Trees & forests turn carbon dioxide into oxygen,so when they are cleared like the stored carbon is then released into the environment. Deforestation can also occur naturally which has a greater effect because of the fumes released from the fire.

3)Waste-

Humans create more waste now than ever before, because of the amount of packaging used and the short life cycle of products. A lot of items, waste & packaging isn't recyclable. which means it ends up in Landfills when the waste in landfills begins to decompose / break down it releases harmful gases into the atmosphere which contribute to global warming.

4) Power plants-

Power plants burn fossil fuels to operate, due to this they produce a variety of different pollutants. The pollution they produce not only ends up in the atmosphere but also in the water ways, this largely contributes to global warming. Burning coal which is used in power Plants is responsible for around 46% total carbon emissions.

5) Oil Drilling-

Oil drilling is responsible for 30% of the methane pollution and around 8% carbon dioxide pollution. Oil drilling is used to collect petroleum oil hydrocarbons in this process other gases are released into the atmosphere, which, Contribute to climate change. It is also toxic to the wildlife and environment it surrounds.

6) Transport and vehicles-

The large amount of transportation is done through cars, planes, boats and trains, almost all of which rely on fossil fuels to run. Burning fossil fuels releases carbon and other types of pollutants into the atmosphere This makes transportation partly responsible for the greenhouse gases. This effect could be reduced with the introduction of electric vehicles.

7)Consumerism-

Due to innovations in technology and manufacturing customers are able to purchase any product at any time. This means we are producing more & more products every year, and over producing them. Most

items we purchase aren't very sustainable and because of the reduced lifetime of electronics and clothing items, we are creating more waste than ever.

8) Farming-

Farming takes up a lot of green Space meaning local environments can be destroyed to create space for farming these animals produce a lot of greenhouse gases. For example methane, as well as this they also produce an extreme amount of waste. Factory farming is responsible for even more climate issues.

9) Industrialization-

Industrialization is harmful in a variety of ways. The waste this industry produces all ends up in landfills. or in our surrounding environment. The chemicals & materials used within industrialization can not only pollute the atmosphere but also the soil underneath it.

10) Overfishing-

fish is one of humans main sources of protein & a lot of the world now rely on this industry. Due to the amount of people buying and consuming fish, there is now a reduced amount of marine life. Overfishing has also caused a lack of diversity within the ocean.

Impact of Climate change -

Impact of climate change is as follows

- 1) Hoofertemperatures. As Green house gas concentrations rise, so does the global surface temperature.
- 2) More severe storms.
- 3) Increased drought, longer periods of drought in some region.
- 4) A warming, rising ocean.
- 5) Loss of species.
- 6) Not enough food.
- 7) More health risks.
- 8) Poverty & displacement.
- 9) More frequent wildfires
- 10) Extreme weather
- 11) Diminishing sea ice
- 12) Year after year of record breaking warmth.
- 13) Drought fires.
- 14) Stress to ecosystem.
- 15) Imbalanced environment
- 16) Human Health Issue.
- 17) Impact on food availability.

Solutions to the climate change-

1. keep fossil fuels in the ground
2. Invest in renewable energy
3. switch to sustainable transport.
4. Help us keep our homes cozy.
5. Improve farming & encourage vegan diets.
6. Restore nature to absorb more carbon
7. Protect forests like the Amazon.
8. Protect the oceans.
9. Reduce how much people consume.
10. Reduce plastic.

Thus we can reduce the problems due to impact of climate change.

Conclusions-

Climate change refers to change in environmental conditions of the earth. This happens due to many internal and external factors. The climate change has become a global concern over the last few decades. Besides these climate change affect life on the earth in various ways.

Climate change is the most significant problem facing the world. Global warming is increasing day by day. If we can not prevent it as soon as possible our world will face undesirable consequences.

Recommendations-

Researcher recommended recommendations as to every person as follows-

1. Drive less
2. Recycle more vehicle

3. Check your vehicle tires.
4. Use less hot water,
5. Avoid products with a lot of packaging
6. Adjust your thermostat.
7. Plant a tree.
8. Change a light-

Replacing one regular light bulb with a compact fluorescent light bulb will save 150 pounds of carbon dioxide a year.

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