

Essay

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Topic: The threat global warming and the ways to counter it.

Outline

1. Introduction

The threat global warming is caused by deforestation and excessive burning of fossil fuels which effects the Earths such as increasing global temperature and heavy rainfalls. This can be countered by the reduction of fossil fuels and growing more forests.

2. Global warming is a major threat and remedies are required to counter it.

3. Causes of global warming:

- (a) Setting up more industries
- (b) Deforestation causes global warming
- (c) Depletion in Ozone layer
- (d) Volcanic eruption

Major effects of global

warming:

- (a) Increasing global temperature
- (b) Losing Earth fertility
- (c) Rising sea levels
- (d) Eruption of cyclones
- (e) Extreme weather in summer
and in winter
- (f) Melting of glaciers and
cause of floods

Suggestions to counter the threat global warming:

- (a) Reduction of fossil fuels
- (b) Increase afforestation and
reforestation
- (c) Introducing zero carbon
technology
- (d) Solar energy should be
encouraged
- (e) Use public transport
- (f) Encourage the 3R (Reduce,
Reuse, Recycle)
- (g) Advocate the community
regarding its harmful effects.

Conclusion

People were gathered around a car and we were unable to understand that what had happened. A person came out from the crowd who was calling an ambulance. It was a severe accident between a truck and a car. The car was crashed badly and its passengers were in miserable condition. We came out from our car but the situation that we saw there, cannot be explained in words. The major reason behind the accident was fog and smog in Lahore.

This smog is one of the major effect of global warming. The threat global warming that is increasing day-by-day -

day is due to major causes that include the excessive burning of fossil fuels, setting up more industries, depletion in Ozone layer, deforestation and volcanic eruption. Global warming is impacting the planet Earth in many ways such as increasing global temperature, losing Earth fertility and melting of glaciers. Besides these, there are many other negative impacts of global warming that Earth's inhabitants are facing and more will face in future if one cannot pay heed to counter this major threat. This alarming situation can be controlled only if one pays attention on the remedies such as reduction of burning of fossil fuels, reforestation and afforestation increase etc. The threat global warming is

caused by deforestation and excessive burning of fossil fuels which effects the Earth such as increasing global temperature and heavy rainfalls. This can be countered by the reduction of the burning of fossil fuels and growing more forests.

Global warming is a process in which the harmful radiations such as ultraviolet radiations that are the major cause of skin cancer and many other harmful diseases are captured and are unable to escape from the Earth's surface. In this way, the change in climate occurs and the earth residents are facing extreme weather conditions. Moreover, this is becoming a major threat and a curse for future generations if it is not tackled properly. The

responsibility is on our shoulders to provide a safe and secure environment to our future generations who will suffer more if the principle of sustainability is ignored by present generation.

There are multiple causes of global warming but the chief among them is the setting up more industries. After industrial revolution, the concentration of CO_2 has increased. Carbon dioxide is one of the harmful gases that causes global warming and this gas is excessively released by the burning of fossil fuels such as coal, oil and gas. According to **CAIT** report more than 50% of CO_2 is released by burning of fossil fuels (Global Climate Action, 2022). Hence, the industrial sector which is growing in an

uncontrolled manner is one of the major cause of the global warming.

The cause of global-warming that is industrialization is coupled by deforestation. Deforestation causes global warming because trees that control the CO_2 are cutting down. It is basically a process known as photosynthesis through which plants take CO_2 from the atmosphere and then releases O_2 in the environment.

Almost 20-30% of the area of a country must be covered by forests but Pakistan has only 4.9% area that is covered by forests. In this way, deforestation is contributing in global warming that is increasing day-by-day.

Deforestation results in the

increase of CO_2 due to which another cause of global warming arises such as depletion in Ozone layer. Carbon dioxide and mostly the CFCs gases contributed to the ozone layer depletion. Chlorofluorocarbons are making holes in the ozone layer that basically acts as a barrier to many harmful gases such as **UV-radiations**.

These radiations are reaching the Earth's atmosphere and are causing many harmful disease as well as are contributing to the rise in global warming. According to **World Meteorological Organization Greenhouse Gas** the concentration of greenhouse gases especially of CO_2 , methane and nitrous oxide are the major reasons for the depletion of ozone layer (2022). Hence, Ozone layer depletion is paving a way to the threat global

warming.

Ozone layer depletion is a major threat for the world but global warming has another cause that is volcanic eruption. Volcanic eruption releases many harmful gases and particles into the atmosphere. These eruptions are large enough to cause climate change and are leaving harmful impacts for years. For example: the eruption of Pinatubo in 1991 that is considered as one of the terrific terrestrial volcanic eruption of the 20th century. Hence, the volcanism is another cause of climate change and global warming.

There are many effects of global warming and one of the prominent is the increase in global temperature. The temperature around the globe

is increasing day-by-day. It is because due to global warming the heat is trapped in the Earth's atmosphere and is unable to escape outside. When heat is trapped, the temperature of the Earth is increased. According to NASA, 2016 - 2022 were the hottest years (2023). In this way, global warming is impacting badly the temperature of the Earth.

In addition to the increase in temperature, global warming has a negative impact on the Earth's fertility. The Earth is losing its fertility because higher air temperatures speed up the process of natural decomposition. The process of decomposition speeds up and effects the natural ingredients of the soil. For example: the higher air temperatures

make the condition favourable for the insect pests to grow more rapidly that are harmful for the crops. Hence, the global warming is a major cause for the loss in the fertility of the Earth.

In the same manner, rising sea level is also a major effect of global warming. It is because more heat is trapped due to global warming. As a result, the glaciers and ice sheets worldwide are melting and warm waters are expanding. Due to this melting and expanding, the level of seas rise. According to **NASA**, sea level rose about 8 inches in the last century and it is rising every year (2020). Hence, global warming is rising the level of seas each year. ✓

Besides, the rise in sea levels, global warming is a major cause of eruption of cyclones. This eruption occurs when more water melts and warms due to excessive heat trap in the surface of the Earth. Cyclones are erupted in the sea and are moved towards the land in the form of a storm. This storm carries more water that causes huge destruction. The Greenland's ice sheet is thinning day-by-day that means more sea level and disasters. Hence, the global warming is resulting in the melting and warming of sea ice and sea water that ultimately results in the eruption of disasters such as cyclones.

Similarly, another damaging effect of global warming on the green planet is the extreme weather condition in summer and in winter. In country like Pakistan, not only summers are extreme but also winters are at peak temperature e.g. in -5°C . This extreme weather condition causes many health problems especially in children and also affecting the roadmap of education system. For example: winter vacations in 2024 are extended due to extreme fog and smog. Therefore, global warming is impacting in a negative manner on the weather conditions around the globe.

Extreme weather conditions are coupled by the excessive disasters such as floods due to global warming. This

is caused by the melting of glaciers when the heat is trapped due to global warming, the glaciers start melting that results in the eruption of various disasters such as floods. Floods not only vanish the human resources of a country but also slow down the economy of the country. According to UNICEF, more than 25 thousand people were displaced in Pakistan as a result of floods in July - August 2023 (2023). Hence, global warming is a leading reason to cause floods in any country and to cripple its economy.

In recognition of the threats mentioned above, it is the responsibility of the world to act upon the suggested remedies to

counter the threat global warming. There are many practical remedies suggested but the chief among them is the reduction of the burning of fossil fuels. The fossil fuels such as coal, oil and gas emit CO_2 that is a major cause of global warming. The reduction of fossil fuels is only possible when the developed and developing countries introduce some alternative source of energy. In this way, reduction in the use of fossil fuels help the world to counter the growing threat of global warming.

“We face a true planetary emergency. The climate crisis is not a political issue, it is a moral and spiritual challenge to all of mankind”

(Al Gore; Nobel prize winner 2007)

In addition to the reduction of the fossil fuels burning, global warming can be countered when afforestation and reforestation is encouraged.

Afforestation means the plantation of new plants and reforestation means the plantation on that area from where plants and trees are cut down. As the plants are the major source of O_2 and also minimize the amount of CO_2 in the atmosphere. Ten billion tree tsunami is a major project in Pakistan to counter the growing climate issues (Ministry of climate change, climate crises in Pakistan, 2023). By acting upon the practical remedies, the threat of global warming can be countered.

Likewise afforestation and reforestation, there should be introduction and encouragement

of zero carbon technology. Zero carbon technology will play an efficient role to tackle the alarming situation due to global warming. It is a technology in which the industries and products that emit CO_2 should be discouraged.

The most efficient example in this regard is the encouragement of the plastic free bags e.g. cloth bags.

It is because these bags can be recycled and reused again and again. Hence, the zero carbon technology is one of the prominent step to stop the climate crises and global warming.

Zero carbon technology can be engined when solar energy usage is encouraged.

Solar energy is one of the prominent form of energy that releases no harmful gases that cause

global warming such as
carbon dioxide. The energy
that we get from the
Sun is the rising trend
in global market after the
recognition of the threat
of global warming. According
to World Health Organization 99%
of the people on the Earth
are breathing polluted air
(2023). Hence, this polluted
air can be treated
by the reduction of the
usage of harmful energy resources
and the encouragement of the
solar energy.

Encouragement of the solar
energy cannot be proved
fatal in stopping the threat
of global warming until
the use of public transport
is encouraged. Vehicles produce
many harmful gases that
are the major cause of
global warming. The burning
of fossil fuels and the

discouragement of public transport adds huge amount of carbon dioxide into the environment. According to **European Union**, by the year 2035 they will put a complete ban on the carbon emitting vehicles. This is one of the efficient that should be followed all over the world and use of public transport also minimizes the number of carbon emitting vehicles.

^{on the} At one hand the use of public transport and on the other hand the 3R (Reduce, recycle and reuse) should be encouraged. Reduce means the reduction of harmful gases, recycle means the recycling of old material and makes it usable for the future needs. Several baskets should be placed at homes, schools, offices and hotels to make this

technology effective. In markets all over the world, the recycling material's export and import can make the 3R's awareness around the globe. In this way, recycle, reduce and reuse proves an effective way to counter the global warming and to make environment favourable for the future generations.

Last but not the least suggestion to counter the global warming is to create awareness regarding the harmful effects of global warming. All the above suggested remedies are only applicable when the people around the globe are aware of the global warming. For this purpose several campaigns regarding the awareness of global warming should be started

on the social media and television channels. In this way, after the recognition of the threat, people will be willing to act upon the practical measures to reduce the global warming.

Conclusively one may say that burning of fossil fuels, emission of green house gases and deforestation causes global warming that is threatening mankind in different ways such as eruption of cyclones and extreme weather in summer and winter. It can be encountered by ensuring healthy activities such as afforestation, using public transport and reducing the usage of fossil fuels. The picture of global warming paints a bleak picture for mankind; however, it is impossible. By acted out the suggested remedies

mankind can surely overcome
by reducing the negative
effects of global warming
for better future of
coming generations.

“When enough people come
together, then change
will come and we can
achieve almost anything.
So instead of looking
for hope - start creating
it.”

(Greta Thunberg)
