

Climate Crisis in Pakistan

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A long term shift in the planet's weather and average temperature is called climate change. It is caused by greenhouse effect. Climate change process is happening rapidly from decades but after industry revolution, increasing the use of transports on fuel and with developments in technology its speed has increased in last few decades after the revolution in science and technology. In last four decades from 1980 to onward, a rapid increase in the temperature of earth. One of the major issues for Pakistan is climate crisis. In last ten years Pakistan faced two severe types floods and heat waves special in Karachi and droughts in the Thar and the Balochistan. Due to which Pakistan faced economy crisis in the country. The Pakistan Government should work on climate crisis to control with UNO and COP administrations. The climate crisis are increasing on yearly basis. Therefore strict actions should be taken against the climate issues related activities.

Climate crisis are in severe weather pattern due to the industry revolution, uses of fuels for energy and other agriculture related activities. Climate change effects the environment and the country economy economic. Strict actions should be taken to tackle the climate crisis related issues. A country should make the policies and regulations for control of climate change.

"Earth provides enough to satisfy every man's need but not every man's greed."
Mahatma Gandhi

Climate change is the major challenge for earth environment and universe. The climate pattern is changing due to the unnecessary activities which damaging the climate. which is also causes the heatwaves, droughts and floods in the country. therefore the government administrations and the NGOs should work together for the rise awareness related climate activities to control the climate.

The manufacturing of goods in industries and rapid industrialization in the world is one of the major cause of climate change in the world. Carbon dioxide (CO_2) is in abundant quantity released from the industries during the products making process. CO_2 is 66 percent reason of climate change which are producing from the industrialization. Fossil fuels are using for energy purpose in industries which release the abundant quantity of carbon dioxide in environment which is 66 percent cause of climate change. Industry revolution came in America and Europe in seventh century. After the industry revolution, the rapid change in climate due to abundant release of carbon dioxide in manufacturing process. Currently, the most developed countries economic is depend upon the industry and these developed

Countries played major role in climate crisis. As America, China, India and European Union countries. China has 29.4% share for climate change and America is 14.7% is contributing in the world pollution and the climate change.

Increasing the use of transportation causing the climate change. The Gas and Oil are using as fossil fuels in the transports which released Carbon dioxide (CO_2) and methane (CH_4) gases in the environment. The methane gas (CH_4) is 16 percent role in climate change. These gases gathered in atmosphere and damages the ozone layer.

Due to damage of atmosphere infrared and ~~with~~ ^{wave} ultra violet rays came on the earth and large ~~wave~~ ^{wave} did not wavelengths did not go back and gathered in the atmosphere. Due to gather of gases in atmosphere it causes the rise of the temperature of the earth.

Therefore, the less use of ^{personal} transports and use the public transports. The stricts rules for transports which released abundant quantity of ~~smog~~ smoke in the environment and ban such type of transports. According to Intergovernment panel on climate change (IPCC) the transports play 28 percent role in climate change. Therefore stricts rules and regulations for transport and promote the public transport for people which will reduce the transport pollution. The transports will change or transfer from fossil fuels to electricity transports. The air transports should reduced and prefers the railways system in for ~~inter~~ ^{inter} country and near countries. travels.

The deforestation and the increasing the use of fertilizers in the (environment) agriculture sectors which causes the climate change. The trees absorb the carbon dioxide which is unuseful for environment and release the oxygen which is useful for respiration for human beings. The forest also helpful in ^{control} of floods and erosion of soil. The forest creates the cool environment, absorbs the heat waves and cause seasonal rains. After the deforestation, the climate temperature rise ^{and} rise in carbon dioxide quantity, erosion of soil and severe floods. The fertilizers damaging the earth crust, decreasing the fertilizations of earth and released of methane gas. The methane level was 1189.9 ppb and plays the 16% role in climate change. The maximum methane released from the agriculture activities. Therefore, the restrictions on deforestation in the country which is the basic cause of climate crisis. Ex PM of Pakistan Imran Khan started the campaign of one crore trees movement for control of climate change.

In the Pakistan, 70 percent energy produced from coal, gas and oil. During the use of these fossil fuels released the carbon dioxide and methane gas in environment which rise the temperature of earth and cause climate change. The average rise of temperature in previous decades is 2.0°C and UNO is working on the control of temperature at 1.5°C temperature. The energy using in power buildings also release methane.

Hence, generating powers and energy in power buildings are the causes of the climate change. The government of Pakistan should produce energy from the hydro energy, which is environment friendly energy. The wind energy and solar plates energy are also good options for energy production. The country should transfer to these friendly environment sources for fulfill the demands of energy for the country.

The consuming too much and extractions of resources from the earth is also reason of climate change.

The uses of plastic for different purposes are increasing the plastic pollution in the country. The plastic is most difficult materials to decompose. The recycling of plastic is best way to fight with plastic pollution. But a lot of energy is required to recycle the plastic. A plastic cannot complete decompose.

According to report, if world using the plastic with same the speed will increase the double plastic in oceans and seas until the 2050.

Therefore, the government of Pakistan should ban the use of plastic bags and other products which are producing from the plastic. Consuming too much also generate the pollution in the environment as waste materials which is also difficult to dumps in earth. The only way to fight these wasting materials is recycling and reusing of these materials.

The use of fossil fuels for transport, industrialization and other uses also cause the climate change. The carbon dioxide and methane are released from these fossil fuels which damage the environment. These fossil fuels are coal, gas and oil. During the extraction of these fossil fuel, causes the climate pollution. The government should least depend upon these fossil fuels for the energy. The energy should produced from renewable sources as wind, water (hydro) and sun (solar energy). These energy are friendly environment energy and are less pollutions produced from this process.

"Climate change is a terrible problem, it absolutely needs to be solved. It deserves to be a huge priority."
- Bill Gates

The livestock pollution is directly or indirectly released carbon dioxide, methane, nitrous oxide and ammonia gases in the environment which cause the climate change. During the fermentation process which released the carbon dioxide and methane into environment. Livestocks released the major gases as methane, nitrous oxide and ammonia gases which mostly effects the greenhouse. The methane 24 percent more destroyed than the carbon dioxide to greenhouse layer. The decomposition of animals waste also released the methane. The fermentation is indirectly

process for the released of methane and nitrous oxide gases in the environment. Therefore the government should work on livestock. The deforestation of soil and deforestation causes the increasing of quantity of carbon dioxide and methane in environment. In the nutshell the government should stop the deforestation and grow more forests for the control of the climate change.

"Global warming is not a prediction.
It is happening."
- James Hansen

Climate change causes the intense droughts and water scarcity. The changing weather patterns effects the environment in different ways as Pakistan. faced intense droughts in previous two to three years in the areas of Thar and Balochistan. Due to which Pakistan is facing the severe issues of food deficiency in Thar and Balochistan areas. The intense droughts are due to the lack of rains and water. The surface level of water is decreasing in special in the drought and deserts areas. The rivers are starting to shrinking due to severe weather's pattern. The volume of water in rivers, ponds and underground is decreasing on yearly basis. Therefore, big cities are facing the issue of water as Karachi. It's is do or die situation to tackle the climate change.

"when the well is dry, we know

the worth of water." - Benjamin Franklin

The ratio of flood is increasing due to climate crisis. The nature of floods are very severe in Pakistan. In last one decade, Pakistan had faced two severe floods in 2013 and 2022. Due to these floods Pakistan faced the destructions of infrastructure, houses and economy. Due to destructions of infrastructure and economy Pakistan took the loans and aids from other countries and organization to tackle the situation of unstable economy. In 2022 flood, Pakistan faced \$15 billion destruction of infrastructure, houses and crops, which leads to unstable economy of the country. Pakistan demanded 16 billion dollars for rehabilitation of houses, infrastructure and to maintain Pakistan economy. Due to the destruction of crops in the flood, Pakistan faced the food deficiency and imports the food from foreign countries to tackle the food demands. which therefore Pakistan should build dams and repairs the rivers for control of floods in the country. Pakistan is facing the heatwaves, catastrophic storms and unpredictable weather. In the previous year 2023 Pakistan faced record breaking heat waves and severe summer seasons. The intensity of severe weather is increasing every year. Karachi faced heatwaves in 2023 due to which 1785 persons died, faced catastrophic

storms in the deserts and (grounded) plains areas which destroyed the crops and infrastructures. The weather is unpredictable due to the change of climate. Meteorological Departments cannot detect the weather pattern in true sense. Pakistan is also facing the non-seasonal rains which destroyed and damaged the crops, due to which the country faced the food issues. The nature is facing most climate change issues as losses of wildlife, species and biodiversity. The melting of glaciers and deforestation causing the endanger of species and wildlife in world. The winter is shrinking and summer with hot waves is stretching. The habitants of winter are started decreasing in the world and losses their species. Due to heatwaves, some species died which are benefits in the control of diseases as micro-organisms and maintain the environment life cycle. Therefore the climate change is also disturbing the life cycle of species and wildlife, and the reasons of endangered of species.

Pakistan is facing economic instability in the country due to climate change. One of main reason is flood which made the Pakistan economy unstable. In 2022 flood, Pakistan faced the 15 billion dollar loses. The crops of Sindh, and southern

punjab damaged due to flood, then the Pakistan imports foods and fulfill the demand of food in the country. Due to destruction of houses and business or agriculture lead to poverty. The flood also leads the unemployment due to destruction of business and crop fields. The people lived on the river banks or near the rivers ^{started} to moved from rural to urban areas for family safety, fulfill the education and health demands after the displacement. Therefore the world organizations, developed countries and developing steps together for fight against the climate change and control or lessen the spread of climate change in the world. The China, USA, India, Japan, Russia and European Union's countries played the most role in climate change. Pakistan is contributing too less in the climate change but it is in top countries which are faced the most climate change issues as floods, heatwaves, unpredictable weathers, catastrophic storms, glaciers melting and decreasing surface level of water. Pakistan and world should organizations should work together to lessen the climate change. The promotes public transports and lessen personal autos. The ban on the ^{auto} releasing too much smokes in the environment. The transports should transfer from fuel to electricity transports. The fossil fuels are contributing

28% in air pollution. Therefore, the electricity ^{auto} ~~transports~~ ~~cars~~ should prefer than fuels, which will also decrease the demand of fuels and make stable economy.

For the climate change control, country should follow the rule of "reduce, reuse, repair and recycle". Plastic is major ingredients in pollution which cannot easily fully destroyed. Therefore we should use this rule for ~~the~~ plastic control. First reduce the plastic size, then reuse for other materials and after that repair this plastic. The last process to convert this plastic in other things is know as recycle. This is a best method for the control of plastic. Therefore, it will reduce the pollution and for the completely destroyed of plastic need a lot of energy during this process, ~~most~~ a lot of smokes will release which contains on the harmful ingredients and which contaminate the environment.

The uses of fossil fuels should decrease for energy production. The energy should produced from the solar and wind powers sources which are ~~is~~ produces less pollution in environment as compare to the fossil fuels. The fossil fuels released the carbon dioxide and methane gases which is most effects the global warming. Therefore, the environment is more important than economy. Guy McPherson said,

"If you really think that the environment is less important than the economy, try holding your breath while you count your money."

In the nutshell, the world organizations and developed countries should work together to fight for planet against climate change. The strict rules and regulations should make to restrict the climate change. The funds raise by developed countries to help the effecting countries as Pakistan due to climate disasters. COP28 ~~in~~ ~~the~~ conference in Dubai from 29th November to 12th December 2023, made Loss and Damage Fund (LDF) for fund raising for effecting countries due to climate crisis. The public transports should prefer rather than the personal transport. The energy production from fossil fuels should prohibited and change to electricity production from hydro, sun and wind sources as dams, solar panels and wind turbines. The world should follow the rule of reduce, reuse, repair and recycle for lessen the energy pollutions from waste materials. Government should take initiatives to more plant trees and stop the deforestation for better environment. Hence, in these ways world can tackle the climate crisis with iron hands. As the 44th U.S. President said,

“The world must come together to confront climate change. There is little scientific dispute that if we do nothing, we will face more drought, famine and mass displacement that will fuel more conflict for decades.”