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(Review Article)



Climate change: The biggest challenge of this era

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Abstract

Climate change is an unfortunate reality that is rapidly changing the face of our planet. It is caused by human activities such as burning fossil fuels and deforestation, resulting in increased greenhouse gas emissions and global temperatures rising. We must do what we can to reverse these changes and prevent further destruction of our environment by implementing policies that prioritize sustainable development and protecting natural resources. Read about climate change and what you can do to reverse it further in the article.

Keywords: Climate change; Global warming; Environmental protection; Global environmental change

1. Introduction

When it comes to technical development, recent decades have been momentous. Our lives are made easier by the systems and machinery that humans have created. Particularly during the early modern era, also known as "The Scientific Revolution" or "The Enlightenment," which spanned from the early 16th century to as late as the 18th century, modern technology advanced in such a quick manner compared to all the history.

It is assessed by assessing the instances of assortment in temperature, moisture, barometric strain, wind, precipitation, air particle incorporate and other meteorological elements in each invested over huge stretches of effort. Environment can be differentiated to climate, which is the current state of these equivalent factors throughout more limited time spans.

When used without qualification (as "climate"), it usually refers to the climate of Earth. Climate change alludes to a wide cluster of ecological corruption that is anticipated to come about because of expanding levels of environmental ozone depleting substances including carbon dioxide (CO_2), chlorofluorocarbons (CFCs), methane (CH_4) and nitrous oxide (N_2O).

2. What is Climate

Climate is the typical weather patterns in a spot over numerous year. It incorporates proportions of temperature, precipitation, and mugginess.

Individuals can adjust to various climates, yet a few spots are excessively blistering or cold for human residence. A changing climate affects individuals, plants, and creatures all over the planet. The meaning of climate change is a long-term alteration of global or regional climates. It can be caused by natural processes or burning fossil fuels. As our climate continues to change, we must work to mitigate its effects on our planet and its inhabitants.

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Climate refers to the long-term general weather conditions in an area. Location and elevation affect climate. The Gulf Stream, for example, keeps Europe's climate milder than it would be otherwise at that latitude. Climate varies over time as well as space. For example, during an ice age glacier cover large areas of land and ocean waters cool down causing global sea levels to drop. Each type of environment - from mountain top to desert floor - has its own unique climate determined by a variety of factors. To really understand what climate is, it helps to look at all the different factors that come together to create our planet's wide range of climates.

3. What is Weather

It is a broad term that generally refers to the day-to-day conditions of the atmosphere. It includes temperatures, humidity, cloud cover, precipitation, and other aspects of short-term environmental conditions over hours or days such as fog, wind speed or direction. The science of weather tracking has been used since ancient times in order to predict patterns and trends in seasonal changes over time. Most recently, more advanced technology has been used to better understand and forecast extreme weather conditions such as hurricanes and typhoons. Weather can also be used to describe more long-term climatic trends that occur in areas around the world over months or years. By studying environmental variables such as temperature fluctuations and pressure systems, meteorologists are able to make informed predictions about global climate change.

3.1. What distinguishes climate and weather

Despite their frequent mixing, the words "weather" and "climate" have different meanings. Weather is how the atmosphere once was, is currently, and how it might potentially be in each location at a specified time. This information typically covers a short period of time such as a single day or week and pertains to factors such as temperature, rainfall, sunshine duration and wind pattern. On the other hand, climate refers to how all these things interact over long periods of time (e.g., ten years). Climate includes how much rain falls during certain months or how many days out of the year reach above 0 Celsius (32 Fahrenheit). Not only does climate help scientists monitor how trends in weather change over time, but it is also helpful for predicting how humans may be affected by their environment in the future.

Understanding how climate and weather differ can be beneficial in helping us to be more knowledgeable on how both of these important natural conditions affect our day-to-day lives. Weather is the day-to-day changes and fluctuations of essential elements such as temperature, wind patterns, and precipitation. Climate, on the other hand, is what scientists consider a long-term average of these same conditions. It is not only an overall study of weather phenomena but also how that data has changed over long periods of time which help give clues as to how the current season will play out. Studying climate teaches us how local ecosystems are responding or adapting to changes which helps inform how we can best live sustainably in balance with our environment.

3.2. What is Climate Change

it is the drawn out modification of temperature and run-of-the-mill weather conditions in a spot. Climate change may refer to a particular region or the entire world. Typhoons, floods, deluges, and winter storms that are more frequent and more severe have all been linked to climate change as being harmful. The ensuing rise in ocean level has begun to affect shorelines due to increased flooding and disintegration, along with the expansion of sea waters as a result of rising temperatures weakening polar ice. A large part of the cause of the current climate change is human activity, such as the consumption of petroleum derivatives like combustible gas, oil, and coal. Consuming these items releases ozone depleting compounds into the earth's atmosphere. There, these gases cause the air to absorb heat from the sun's rays, raising the average temperature of Earth.

As we continue to burn fossil fuels at ever-increasing rates Climate change is reaching a tipping point where it becomes impossible for us humans to stop or even reverse its progress. We have already seen many species go extinct because they couldn't adapt to changes in their environment fast enough, and we ourselves are not immune to these dangers. It falls on every single one of us people perusing this right now what sort of world we need to abandon for the individuals who come after us.

Environmental change is a drawn-out shift in the normal Weather conditions that portray a specific district. Different variables, including human exercises, for example, consuming petroleum products and land use changes, cause it. The subsequent changes in temperature, precipitation, and other climate peculiarities can affect people, creatures, and the climate.

• Dissolving Polar Ice Covers: Environmental change is causing the polar ice covers to liquefy, prompting higher ocean levels and flooding in seaside regions.

- Outrageous Climate Occasions: Environmental change is causing more continuous and serious outrageous climate occasions, for example, tropical storms, heat waves, dry seasons, and floods.
- Ocean Acidification: Rising levels of CO₂ in the atmosphere are causing the pH of the ocean to drop, leading to the acidification of marine ecosystems.
- Loss of Biodiversity: Climate change is causing species to become extinct due to rising temperatures and changing habitats.
- Health Issues: Climate change is increasing air pollution and heat-related illnesses like heat stroke.
- Water Scarcity: Climate change results in decreased water availability in some areas due to reduced snowpack, decreased rainfall, and increased evaporation.

It is one of the most pressing issues facing humanity today, as its consequences can be felt in many areas of our lives. From increased frequency and severity of natural disasters to the rapid loss of animal habitats to the effects that temperature changes can have on food production, it is essential that we recognize why climate change is important and work together to address this issue. The direct implications for human life are overwhelming, but it is equally imperative to remember how climate change affects other organisms' lives and habitats, both now and in the foreseeable future. We owe it to ourselves and future generations to act now in order to ensure a better tomorrow - one that includes planet Earth with a stable environment, teeming with diverse life.

Climate change is extremely important due to the devastating impacts it can have on our planet. Severe weather systems can cause extreme damage to entire communities, as was seen in recent hurricanes. Changes in temperature also have adverse effects that may be long-term, as temperatures can continue rising and put a strain on our natural resources. Additionally, the health of all living things on Earth is at risk, as changes to the climate can affect how crops are grown and livestock are raised. Ultimately, reducing our own individual impact on the environment by making eco-friendly choices is one way to help reduce catastrophic climate change from occurring in the future.

One of the main causes of climate change is an increase in atmospheric greenhouse gas (GHG) emissions. GHG emissions surround the world like a blanket, trapping heat inside the atmosphere and making it warmer than usual. The primary source of these GHG emissions is burning fossil fuels such as oil and coal, as well as other activities such as deforestation, growing animals and intensive farming that contributes to methane release. To combat climate change, it is essential that we reduce our reliance on fossil fuels and implement other solutions such as renewable energy sources, minimizing deforestation and regenerative agriculture practices.

One of the most pressing environmental issues we face today is climate change, which is largely caused by an increase in global greenhouse gas emissions. This is primarily due to the burning of fossil fuels such as petrol and coal to gain more energy. Furthermore, the production and consumption of agricultural products are also significant contributors to climate change, partly due to insufficient farming methods, deforestation, and land clearing. It is particularly concerning that some of these activities have increased in recent decades due to population growth, urbanization, and other forms of economic development. While various approaches have been implemented to combat climate change, a crucial step towards reducing emissions will be better understanding what is driving them and what people can do differently on a local level.

Climate change is an issue that has attracted a lot of attention in recent years, with many people asking what the main reason behind it is. The solution to this question is basic: over the top outflow of ozone depleting substances into the climate. These gases, like carbon dioxide and methane, are radiated by enterprises and engine vehicles consistently and trap heat inside the air, eventually prompting an expansion in worldwide temperatures... Additionally, human-made activities such as deforestation are contributing to climate change by reducing the number of trees that absorb the gases and produce oxygen. It is crucial then to reduce our reliance on fossil fuels, practice proper conservation techniques, and plant more trees if we want to protect our planet from further destruction from climate change.

Climate change is an ever-increasing issue in our world today, and what is the main reason for this? The primary driver of this global issue is human activity. We are using non-renewable fossil fuels to power our current lifestyles and economies. As these fossil fuels are burned, carbon dioxide concentrations in our atmosphere have risen to unprecedented levels. In turn, the level of heat trapped within our atmosphere has also increased significantly; this hot air is what causes what we call global warming, setting off a chain reaction that ultimately leads to climate change. Climate change affects temperatures across the globe as well as weather patterns; some areas may experience increased temperatures while other areas may experience more extreme weather events due to hurricanes, floods, or droughts. It is up to us to act in order to mitigate the effects of climate change before it is too late.

Many experts believe that what is causing the planet to warm is human actions, like burning fossil fuels and releasing excess carbon dioxide into the atmosphere. This is known as "anthropogenic climate change." It is easy to think of burning fossil fuels as only happening in households and industry, but what we do not realize is that many of the products found in our daily lives—from automobiles to electronics—are made with materials and components that require a significant amount of energy and resources from fossil fuels. With more and more people living longer and having access to products from all over the world, greenhouse gases released through manufacturing are increasing. This release of greenhouse gases is what drives what we now know as global warming, the main reason for climate change.

Impact of Climate Change is having an increasingly damaging effect on the world and therefore, on humanity. It has resulted in drastic environmental changes such as rising sea levels and desertification of certain areas, as well as extreme weather conditions such as droughts and hurricanes that devastate vulnerable communities. This can lead to poverty and insecurity for thousands of people, given that the global economic system depends heavily on natural resources. In addition, with hundreds of million people residing near coasts who are at risk of displacement from flooding and storms, climate change is leading to a destabilization of human security systems worldwide. In conclusion, climate change poses one of the greatest threats to human life in modern history and its impacts must be taken seriously.

Climate change is one of the most pressing environmental issues facing us today, and it has a major impact on human life. As temperatures continue to rise and levels of carbon dioxide in the atmosphere increase, humans are becoming more vulnerable to extreme weather events like floods, droughts, and storms. These events can disrupt the food and water supply, damage infrastructure, and cause displacement or death. Additionally, shifts in temperature can alter habitats for plants and wildlife, leading to unpredictable changes in the availability of resources for humans to exploit. The overall effects of climate change have already been felt by many countries across the globe, putting lives around the world at risk.

The effects of climate change on our world are long lasting and far-reaching. Climate change brings with it a host of challenges, such as increased temperatures, increased air pollution, and extreme weather events that can all contribute to poor air quality and an increase in disease and allergies. High temperatures can also cause dehydration and heat-related illnesses while pollutants like mercury, ozone, and carbon dioxide can cause neurological problems. Furthermore, extreme weather events like wildfires and flooding can displace vulnerable populations from their homes, leading to greater risk factors for physical health. It is no surprise that the effects of climate change have spilled over into human health; what when what is initially perceived as a "natural" event is actually caused by human activities it speaks volumes about what kind of future lies ahead if urgent steps are not taken now to mitigate these negative impacts.

Climate change has become an increasingly hot topic. The Anthropocene epoch we are living in has been marked by dramatic increases in the Earth's temperature and humans have played a major role in this. Among the most impacted by these changes is us, humans. Natural disasters, like floods, droughts, fires, and intense storms, have only become more common as temperatures rise, and these events devastate both lives and livelihoods. In addition to natural disasters, other human-caused problems have also increased due to climate change such as air pollution, which has been linked to an increase in respiratory illnesses around the globe. Climate change also directly affects food security across many countries; severe flooding cuts off developed nations while drought ravages agricultural regions of developing countries. In short, the main impact of climate change on humans is emotional stress from fear of what may come next, economic instability caused by destruction of resources or disruption of supply networks, health concerns associated with extreme weather events or air quality issues and changed political dynamics due to fluctuations in resource availability.

Climate change is wreaking havoc on the planet and its inhabitants. Its effects are far-reaching and have a profound impact on the wellbeing of humanity. From extreme weather patterns to coastal flooding and sea level rises, the results of climate change have already begun to shake up major aspects of life around the globe. One of the main impacts it is having on humans is what are called "climate refugees", people forced to leave their homes due to the physical destruction caused by climate change related events such as floods, wildfires, and intense storms.

This displacement can force people into poverty or put them in difficult financial situations that have far-reaching effects beyond just their individual situation. Climate change also carries with it costs for healthcare, food shortages, water scarcity, habitat destruction and negative impacts on human livelihoods that are making our planet an increasingly uncertain place to live in. To make matters worse, research shows that these effects will only become more devastating in the future if drastic action is not taken immediately to curb greenhouse gas emissions and move away from reliance on fossil fuels.

3.3. Effects of Climate Change

- Increased air temperatures: Rising temperatures increase the amount of water vapor in the air, resulting in more frequent and intense extreme weather events like heat waves, droughts, floods, and hurricanes.
- Air pollution: Climate change impacts air quality by increasing certain pollutants from burning fossil fuels. This can reduce air quality and cause health problems.
- Ozone depletion: The depletion of ozone in the stratosphere has been linked to climate change and can lead to increased ultraviolet radiation.
- Acid rain: Climate change can lead to increased acidity in the rain, which can have damaging effects on human health and the environment.

Climate change has a massive impact on plants, both directly and indirectly. As temperatures rise and weather patterns change, plants are exposed to new risks, such as drought, flooding, and extreme weather events. These changes can cause stress to plants, making them more vulnerable to diseases and pests. Warmer temperatures also enable new species to colonize areas, potentially outcompeting native plants for resources. Warmer temperatures can also cause plants to flower earlier, disrupting the timing of flowering and pollination. Finally, rising levels of carbon dioxide in the atmosphere can increase the rate of photosynthesis in some plants but can also reduce their nutritional value.

Climate change affects animals in a variety of ways. As the climate changes, the habitats of many species are altered. For example, rising temperatures may cause animals to migrate to new areas that are cooler, leading to competition with other species for resources and habitat. Warmer temperatures can also reduce the amount of food and water available to certain species. Additionally, as sea levels rise, coastal species may lose access to traditional breeding grounds, leading to a decrease in population size. Finally, climate change can also increase the prevalence of disease and other health issues in certain species.

Climate change is having a significant effect on marine life and ecosystems. Warming ocean temperatures are causing coral bleaching, leading to coral reefs' destruction. Warmer temperatures are also causing ocean acidification, impacting marine organisms' ability to form and maintain their calcium carbonate shells or other body parts. The rising sea levels associated with climate change also led to the destruction of coastal habitats such as mangroves, seagrass beds, and estuaries. These habitats are essential nurseries and spawning grounds for many species of marine life. As temperatures continue rising, fish species are beginning to migrate to cooler waters, disrupting the marine food web and fisheries.

Climate change is causing numerous impacts on human life, ranging from the direct effects of extreme weather events to the longer-term risks associated with changes in temperature, sea level rise, and changes in precipitation. These changes can, directly and indirectly, impact human health, livelihoods, and quality of life. Examples of direct impacts of climate change on human life include extreme weather events such as heat waves, floods, and droughts, which can cause physical and psychological harm, displacement, and even death.

Climate change can also increase the risk of infectious diseases and reduce access to clean water and air, leading to increased morbidity and mortality. Indirect impacts of climate change can include food insecurity, increased poverty, and migration. These effects can be amplified in weak populaces, like the old, kids, and those living in neediness. Environmental change can likewise have monetary and social effects. For instance, rising ocean levels can cause seaside flooding and disintegration, harming framework, homes, and organizations. This can prompt relocation, disturbance of vocations, and changes in friendly and social practices. Environmental change significantly affects human existence, and these effects will probably increment.

Environmental change is altogether affecting marine life and biological systems. Warming ocean temperatures are causing coral bleaching, leading to coral reefs' destruction. Warmer temperatures are also causing ocean acidification, impacting marine organisms' ability to form and maintain their calcium carbonate shells or other body parts. The rising sea levels associated with climate change also led to the destruction of coastal habitats such as mangroves, seagrass beds, and estuaries. These habitats are essential nurseries and spawning grounds for many species of marine life.

As temperatures rise, fish species begin migrating to cold waters, disrupting the marine food web and fisheries. Climate change is one of the most pressing global challenges of our time. It directly threatens life on Earth, as it is already causing changes in temperature, precipitation, sea levels, and other natural processes. These changes are impacting species, ecosystems, and human communities worldwide. As temperatures increase, species and ecosystems will be forced to migrate to new areas to survive, and some species may not survive. Rising sea levels will put islands, coastal communities, and ecosystems at risk, leading to increased flooding and extreme weather events.

Furthermore, agricultural productivity will decline as temperatures rise, decreasing food security and even causing famine in some areas. Climate change also has significant implications for human health, as extreme temperatures, air pollution, and infectious diseases are all expected to increase. Finally, climate change will have significant economic impacts as countries are forced to adapt and invest in infrastructure to mitigate its effects. Climate change is caused by increased carbon dioxide and other greenhouse gases in the atmosphere, leading to increased temperatures and other changes to the global climate. Carbon dioxide is the main ozone harming substance delivered through human exercises, like consuming petroleum products. Then again, carbon monoxide is a harmful gas created when non-renewable energy sources are singed not completely.

It is not viewed as an ozone depleting substance and does not add to environmental change. Be that as it may, it can hurt human wellbeing and add to air contamination. Environmental change fundamentally affects crop yields. Higher temperatures, more extreme weather events, and altered precipitation patterns can reduce crop yields and lead to poor crop health. Warmer temperatures can reduce the water available to crops and increase the risk of crop damage from high temperatures. Increased frequency and intensity of extreme weather events can cause flooding, drought, and other weather-related hazards that can damage or destroy crops. Shifts in the season's timing can also disrupt crops' development, resulting in reduced yields.

Climate change is having a significant effect on newborn babies and their health. Rising temperatures can lead to more frequent extreme weather events and air pollution, increasing the risk of preterm birth and respiratory problems in newborns. Increasing levels of carbon dioxide and other greenhouse gases are changing the composition of the atmosphere, leading to more exposure to ultraviolet radiation and an increase in the frequency of droughts and floods. These environmental changes can lead to a higher risk of newborns developing allergies, asthma, and other respiratory illnesses. Additionally, a changing climate can spread new infectious diseases to which infants are more vulnerable.

3.4. United Nations on Climate Change

With the glaciers melting and the sea level rising, the global temperature has already increased by 1.1 0C over preindustrial levels Flooding and drought are further effects of climate change that cause millions of people to be uprooted, plunge into poverty and hunger, lose access to essential services like health and education, widen inequality, stifle economic growth, and even spark violence.700 million individuals are projected to be at risk of being dislodged by dry season by 2030.

Subsequently, it is essential to act rapidly to forestall climate change and its horrendous impacts to save lives and livelihoods. It is likewise fundamental to accomplishing the 17 Objectives of the 2030 Plan for Feasible Turn of events, which are the guide for a more promising time to come. Global greenhouse gas concentrations hit new highs in 2020, and current data indicate that this trend will continue. Along with increasing concentrations, Earth's temperature rises. In 2021, the average global temperature was around 1.1 °C warmer than pre-industrial levels (from 1850 to 1900). The seven warmest years on record occurred in the years 2015 through 2021.

In order to achieve the Paris Agreement's purpose of keeping global warming to 1.5° Celsius above pre-industrial levels, global greenhouse gas emissions must peak by 2025. Then, by 2030, they must decrease by 43%, reaching net-zero by 2050. Through nationally decided contributions, nations are developing climate action plans to reduce emissions and prepare for the effects of the changing climate. However, the nation's present obligations cannot meet the 1.5 °C target

3.5. What is the Paris Agreement

The Paris Agreement is a milestone record that was delivered during the 21st meeting of the Gathering of the Gatherings (COP21) to the Unified Countries System Show on Climate Change (UNF CCC) in Paris, France, in December 2015. 2015. As of December 11, 2020, 193 countries in the European Union have signed the agreement, and 189 have become members by applying "instruments of ratification, acceptance, approval or accession" to the United Nations. States that have marked yet not sanctioned have communicated their expectation to consent, yet this is not restricting. The understanding has 29 articles covering many exercises to battle climate change. Articles on the absolute most significant points are depicted beneath.

Article 2 trains parties: "Keep the expansion in worldwide temperature well beneath 2 $^{\circ}$ C above pre-modern levels and seek after endeavors to decrease the temperature increment to 1.5 $^{\circ}$ C above pre-modern levels, perceiving that this will diminish the gamble fundamentally. And the effects of climate change.

Article 9 states: "Developed country members shall provide funds to assist developing country members in matters of mitigation and adaptation as an extension of their obligations under the Agreement. He also said that "Developed

countries should continue to take the lead in raising climate finance through different sources, instruments and channels", and that "climate finance should represent progress rather than efforts." the past." The Cancún Agreement, which resulted from the COP16 in Cancún, Mexico, in December 2010, gave the members of the developed countries to the UNF CCC the "goal of jointly mobilizing \$100 billion annually by 2020 to meet the needs of developing countries." "Parties shall cooperate to take measures, as appropriate, to promote education, training, public awareness, public participation, and access to information on climate change," states

Article 12. "Parties shall recognize the importance of such measures regarding the promotion of behavior under this Agreement.".

Facts and Figure by United Nations

- In 2021, the worldwide mean temperature was around 1.1 °Cover the pre-modern level (from 1850 to 1900). 2015 to 2021 were the seven hottest years on record.
- The worldwide yearly mean temperature is projected to transcend pre-modern levels in something like one of the following five years.
- Worldwide carbon dioxide (CO2) discharges declined by 5.2 percent in 2020 because of brought down energy request brought about by Coronavirus prompted social and monetary disturbances. In any case, with the deliberately eliminating of Coronavirus related limitations, energy-related CO2 emanations for 2021 rose by 6%, arriving at their most significant level of all time.
- Climate finance gave and prepared by created nations added up to \$79.6 billion out of 2019, up from \$78.3 billion out of 2018. It is assessed that \$1.6 trillion to \$3.8 trillion will be required every year through 2050 for the world to change to a low-carbon future and abstain from warming surpassing 1.5°
- Around 33% of worldwide land regions will endure essentially moderate dry season by 2100.
- The ocean level could rise 30 to 60 centimeters by 2100, regardless of whether ozone harming substance emanations are forcefully diminished and a worldwide temperature alteration is restricted to well underneath 2 °C.
- Around 70 to 90 percent of warm-water coral reefs will vanish regardless of whether the 1.5 °C edge is reached; they would cease to exist totally at the 2 °C level.
- 3 billion to 3.6 billion individuals live in settings that are exceptionally helpless against climate change.
- By 2030, an expected 700 million individuals will be in danger of dislodging by dry spell alone.

3.6. How can humans can control climate change

- Diminish fossil fuel byproducts: Consuming petroleum derivatives for energy, assembling, transportation, and
 different exercises discharge carbon dioxide and other ozone depleting substances into the environment,
 adding to environmental change. Diminishing these discharges through energy proficiency, environmentally
 friendly power sources, and taking on low-carbon advances and ways of life can assist with lessening the
 impacts of environmental change.
- Save and reestablish woods and different environments: Woodlands assimilate and store carbon dioxide from the air, assisting with diminishing the effects of environmental change. Safeguarding, reestablishing, and growing woodlands can assist with alleviating environmental change by eliminating carbon dioxide from the air and putting away it in the trees and soil.
- Promote sustainable agriculture: Industrial agriculture significantly contributes to climate change. Reducing
 fertilizer use, switching to sustainable farming practices, and reducing food waste can all help reduce emissions
 and mitigate climate change.
- Reduce waste: Reducing waste, reusing materials, and recycling can help reduce emissions and mitigate climate change.
- Conserve energy: Reducing energy use through efficiency measures and switching to renewable energy sources can help reduce emissions and mitigate climate change.

3.7. Humans can control carbon monoxide

- Limit fuel-burning appliances, such as gas, wood, and fuel-powered equipment.
- Make sure all fuel-burning appliances are properly vented to the outside.
- Have fuel-burning appliances, such as furnaces and water heaters, serviced regularly.
- Do not idle your car in enclosed spaces, such as garages.
- Avoid burning materials such as charcoal and wood in enclosed spaces.
- Use an exhaust fan or open a window when cooking with a gas stove.
- Avoid leaving your car running when not in use.

- Check and replace air filters on furnaces and air conditioners regularly.
- Check and replace spark plugs and other engine components regularly.
- Upgrade to more fuel-efficient vehicles.

Humans can control carbon monoxide through a variety of methods. These include reducing the use of fossil fuels and using cleaner burning fuels such as natural gas. Additionally, using adequately maintained and properly ventilated heating systems and appliances can help reduce the amount of carbon monoxide produced. Proper vehicle maintenance, including regular tune-ups and inspections, can also help reduce carbon monoxide emissions. Finally, using carbon monoxide detectors and alarms can help identify dangerous gas levels in the home.

3.8. What One Can Do on Individual Level

Individual activity against climate change doesn't need to be agonizing. It is just making a few small changes in our lifestyle that together will create a big impact. Among the many actions everyone contributes to the fight against climate change are:

- Use public transportation There is no doubt that having your own car is a great advantage. But not only is the use of private cars increasing dramatically on our roads, it is also causing a lot of carbon emissions. Common passenger car emissions include CO₂ emissions and the release of other gases such as methane, carbon monoxide and FCS. Not only do you help by reducing traffic and congestion, but you also help by significantly reducing GHG emissions.
- Replace your lights If your home is still running on CFL bulbs, you may want to replace them with LED bulbs. LED lighting is one of the most cost-effective ways to use individual climate control, as it lasts longer and consumes less electricity. Not only will you increase the energy efficiency of one's home, but you will also see a decrease in your electricity bill.
- Invest in energy efficient equipment We use many electronic devices in our daily lives. Refrigerators, air conditioners, water heaters, heaters, washers and dryers, induction heaters, besides other electrical appliances that we can use at home or in the workplace, we all offer a hand in our electricity consumption. These devices put a huge strain on our energy system and accelerate the depletion of our energy resources.
 - The energy used to run these projects is also the cause of greenhouse gas emissions since the energy they use comes from burning fossil fuels. Invest in appliances with the highest ratings for energy efficiency. But consider buying appliances based on your family's needs. It's also important to note that although energy-efficient appliances may have a higher upfront cost, they will ultimately result in lower expenses on your electricity bill.
- Reduce plastic waste Plastic is made from petroleum- 4% of the petroleum produced each year is converted directly into plastic, and another four percent is burned to make the process stronger. This year, the world will equal the pollution output of nearly 200 power plants with a capacity of 500-megawatt, according to the report of the Center for International Environmental Law. Plastic production has increased to more than 8.3 billion metric tons and most ends up as waste. Since plastic takes over 400 years to break down, all that plastic sits in landfills and chokes our oceans. Eliminating plastic is one of the best climate actions you can do to help the planet.

4. Conclusion

All in all, we want to participate and attempt to stop an Earth-wide temperature boost and different impacts on climate change. Assuming the world's temperatures keep on ascending from here on out, living things on earth would become wiped out because of the great temperatures. Assuming people add to control a dangerous atmospheric devotion, this world would be cooler and the high temperatures we presently have would diminish. If everybody as one take stand and try to end most of the climate changes that are occurring, this world would be a safer place to live on

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