

# CLIMATE CHANGE

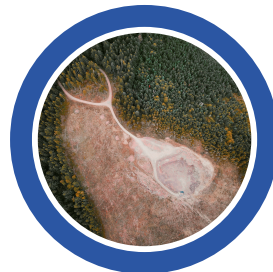
## What is the difference between climate and weather?

The climate is different from the weather and this difference is all about timing. Weather can change in a short amount of time. However, changes in the climate occur over a long time period and it refers to the shifts in weather patterns.



## What are the causes of climate change?

Climate can change naturally. The solar cycle and changes in the Earth's orbit are some of the natural factors which can cause changes in the climate, and our planet has experienced these changes several times throughout history. However, with the effect of the industrial revolution, human activities became the main driver of the recent climate change, because these activities can release of carbon dioxide into the atmosphere and affect the ability of nature to remove the carbon dioxide from it.



## What are the greenhouse gases?

The chemical compound formed by different gases in the atmosphere is called greenhouse gas since it traps the solar radiation in the form of heat and have a greenhouse effect. And the more heat that is trapped, the warmer our planet becomes. This increase in the temperature of our earth's surface is called global warming.





Did you know that climate change causes sea level rise? Because there is more water released into the ocean from the melting glaciers.

### Why 2-degree Celsius is important?

According to the intergovernmental panel on climate change, which is also known as IPCC, human activities have caused approximately 1 degree Celsius of global warming above industrial levels and it is expected to rise to 1.5 degrees Celsius. This increase is predicted in several scenarios by IPCC and the limit is set to be 2-degree Celsius to prevent extreme changes in our planet with the effect of global warming.



### What is Paris Agreement?



To limit global warming and keep it below 2 degrees Celsius, a legally binding international treaty on climate change was adopted at a conference in Paris by 196 parties. This conference is known as COP, a conference of the parties, and the agreement between the parties is called Paris Agreement.

### How can we deal with climate change?

The ultimate aim of all these agreements is to lower the greenhouse gas emissions, and global surface temperature thus mitigating the effects of climate change. However, climate change is an ongoing crisis all around the world and affects the lives of people. Therefore, adaptation to climate change is as crucial as mitigating its effects.