

Global Warming and Future Generations

Glaciers are melting, cloud forests are drying, and sea levels are rising. Earth is becoming warmer day by day, and that one of the main factors of global warming is undoubtedly human activity. The discharge of gases prevents the waste of ground heat into space. The greenhouse effect is responsible for this.

The gases responsible for global warming include **water vapor, carbon dioxide, methane, nitrous oxide, and chlorofluorocarbons (CFCs)**. Humans produce them by burning fossil fuels and fascinating in various industrial and agricultural activities. The Earth itself also contributes to create greenhouse gases and accelerate global warming.

Extreme weather is the overriding concern in the current time. It causes havoc everywhere. The blow is felt in more impoverished countries mostly. Dar es Salaam, Dhaka, most of India and other coastal cities are facing the storm, flood, and many of the extreme sea-level incidents that were supposed to occur only once in a century. It is all because of Global warming.

There is about a **40%** chance of the annual average global temperature temporarily reaching **1.5 degrees Celsius** above pre-industrial levels in at least one of the next five years. According to a new climate update issued by the **World Meteorological Organization (WMO)**, these odds are increasing with time. Also, according to the decadal climate update, one year between **2021-2025** will be the **warmest year** which would evict **2016** from the top ranking.

If the current change in our environment continues like now, future generations will suffer highly. People can't even imagine at present what are the consequences the world will be facing shortly. Atmospheric CO2 concentrations will be **700 ppm** by the year **2100**. This amount is nearly double the current level and more than double the pre-industrial level, **280 ppm**. And this will increase by about **3.5°F** in global temperatures over the next century. This level of climate change has not been seen on the planet for at least the

last 10,000 years. It is the combined threat of very high concentrations of greenhouse gases.

The world has to face future effects because of global warming: temperature rise, change in precipitation patterns, more droughts, and heatwaves, stronger and more intense hurricanes, 1-8 feet sea level rise by 2100, ice-free Arctic Ocean, etc.

Michael Mann, director of the Earth System Science Center at Pennsylvania State University, warned the future generations by stating, "By 2050, if we fail to act (taking major steps to slow down global warming), many of the most damaging, extreme weather events we have seen in recent years will become commonplace".

We all know that we cannot stop global warming. But we can slow the rate of global warming by reducing human emissions. We have to eliminate all the human activities for which global warming is increasing rapidly. Only we can secure our future by raising awareness, or we have to face the consequences in near future.