The negative impacts of climate change on the environment and human beings by the end of the 21st century, unless we do all we can to reduce greenhouse gas emissions.

**CLIMATE CHANGE**

**2 billion people population 2050**

In 2050, an estimated 2 billion people will be affected by floods and other extreme weather events caused by climate change, in addition to other stresses and shortages.

**1/3 of the world population**

A third of the world population lives in the coastal areas within 100 km of the sea. These people will be especially affected by sea-level rise, ocean acidification, and more frequent storms and flooding.

**1.8 billion people**

Other changes are occurring at a fast pace, and some 1.8 billion people live in a water-source environment that is already stressed.

**2 °C = 5 billion people**

According to the Intergovernmental Panel on Climate Change (IPCC), to avoid unsustainable and costly 2 °C warming, we must cut emissions by 40%-60% below 2010 levels by 2050 and achieve carbon neutrality by the end of the century.

**THE ARCTIC**

- **Rising temperatures and melting ice**
  - Rise in sea level and rise in ice cover
  - Loss of the oceanic current that helps to regulate the climate and warming
  - Increase in the threat of viral and bacterial diseases
  - Change in the length of the Arctic circle
  - More frequent storms and flooding

**EUROPE**

- **Large-scale changes and coastal flooding**
  - Loss of land and loss of life
  - Increase in the number of storms and flooding
  - Change in the length of the Arctic circle
  - Increase in the number of storms and flooding
  - More frequent storms and flooding

**AFRICA**

- **Rising temperatures and increase in extreme weather**
  - Droughts, floods, and storms
  - Increase in the number of storms and flooding
  - Change in the length of the Arctic circle
  - Increase in the number of storms and flooding
  - More frequent storms and flooding

**CENTRAL AND SOUTH AMERICA**

- **Increased temperature and extreme weather**
  - Droughts, floods, and storms
  - Change in the length of the Arctic circle
  - Increase in the number of storms and flooding
  - More frequent storms and flooding

**ANTARCTICA**

- **Rising temperatures and melting of ice**
  - Increase in the number of storms and flooding
  - Change in the length of the Arctic circle
  - Increase in the number of storms and flooding
  - More frequent storms and flooding

**THE ARCTIC**

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**CLIMATE CHANGE**

**The effects of climate change on the environment and human beings by the end of the 21st century, unless we do all we can to reduce greenhouse gas emissions.**

**Climate Box**

Change of temperature by the end of the 21st century compared with the pre-Industrial era (mid-18th century)