

# Climate Change in the Arctic: An Indian Perspective

The Arctic is a vast and mysterious region that is home to some of the most unique and fragile ecosystems on Earth. It is also a region that is experiencing the effects of climate change more rapidly than any other part of the planet.

India is a country with a long and rich history of engagement with the Arctic. In recent years, India has become increasingly interested in the Arctic due to its growing economic and strategic importance. India is also concerned about the effects of climate change on the Arctic and is working to find ways to mitigate these effects.



## Climate Change in the Arctic: An Indian Perspective

by Nelay Khare

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## The Effects of Climate Change on the Arctic

Climate change is having a profound impact on the Arctic. The average temperature in the Arctic has increased by about 2 degrees Celsius over

the past century, and this warming is accelerating. This warming is causing sea ice to melt, permafrost to thaw, and glaciers to retreat.

The melting of sea ice is having a number of negative consequences for the Arctic ecosystem. Sea ice provides a habitat for a variety of marine animals, including polar bears, seals, and walruses. As sea ice melts, these animals are losing their homes and food sources.

The thawing of permafrost is also having a number of negative consequences. Permafrost is frozen ground that contains a large amount of organic matter. As permafrost thaws, this organic matter is released into the atmosphere, where it contributes to greenhouse gas emissions. Thawing permafrost can also cause the ground to become unstable, which can lead to landslides and other hazards.

The retreat of glaciers is also having a number of negative consequences. Glaciers provide a source of fresh water for communities in the Arctic. As glaciers retreat, these communities are losing their access to fresh water. Glaciers also play a role in regulating the Earth's climate. As glaciers retreat, they release water into the ocean, which can contribute to sea level rise.

## **India's Role in the Arctic**

India is a relatively new player in the Arctic, but it is quickly becoming a major player. India has a number of strategic interests in the Arctic, including access to natural resources, shipping routes, and scientific research. India is also concerned about the effects of climate change on the Arctic and is working to find ways to mitigate these effects.

India is working to build partnerships with other countries in the Arctic. India is a member of the Arctic Council, which is the leading intergovernmental forum for cooperation on Arctic issues. India is also a member of the International Arctic Science Committee, which is a non-governmental organization that promotes scientific research in the Arctic.

India is also investing in scientific research in the Arctic. India has established a number of research stations in the Arctic, and Indian scientists are conducting research on a variety of topics, including climate change, sea ice, and marine ecosystems.

## **The Future of the Arctic**

The future of the Arctic is uncertain. However, one thing is clear: climate change is having a profound impact on the Arctic, and this impact is only going to increase in the years to come.

India is a major player in the Arctic, and it has a role to play in shaping the future of the region. India is working to mitigate the effects of climate change on the Arctic, and it is also working to build partnerships with other countries in the region. India's engagement with the Arctic is a sign of its growing global power and influence.

Climate change is a global problem, and it is having a particularly devastating impact on the Arctic. India is a major player in the Arctic, and it has a role to play in shaping the future of the region. India is working to mitigate the effects of climate change on the Arctic, and it is also working to build partnerships with other countries in the region. India's engagement with the Arctic is a sign of its growing global power and influence.

A photo of a polar bear standing on a melting ice floe. The polar bear is looking out at the water, and there is a large glacier in the background. The photo is taken from a low angle, and the polar bear is framed against the sky.

**\*\*Alt attribute:\*\*** A polar bear standing on a melting ice floe. The polar bear is looking out at the water, and there is a large glacier in the background. The photo is taken from a low angle, and the polar bear is framed against the sky. This photo is a powerful reminder of the effects of climate change on the Arctic ecosystem.



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