What is Global Warming? And what is the effect of it?

The surface temperature of earth has increased sharply since 1970. Experts agree that human activities and mainly the release of greenhouse gases like carbon dioxide are probably the dominant forces driving the trend. As a consequence of global warming, global absorption of solar radiation is increasing. This will significantly melt the land ice and raise sea levels. Average temperature in the arctic is rising twice as fast as elsewhere in the world. This increase in the temperature poses a threat to the ecosystems in the Polar Regions and some species are facing endangerment. And it can trigger more severe winters and cooler summers, scientists warn today.

Climate Engineering

Climate engineering involves proposals to deliberately manipulate the Earth’s climate to counteract the effect of Global Warming from Greenhouse Gas emissions. Proposals of this sort include ideas such as carbon dioxide capture from the atmosphere and methods of solar radiation management such as stratospheric aerosols. Climate engineering is the cutting edge of climate research and development and is still in very early stages.

Alternative Energy

There are many alternative fuels which can be used to obtain energy. Using crops high in cellulose, sugar or vegetable oil can form biofuels which create less CO₂ and get better gas mileage. Nuclear fission is a resource that can be utilized to obtain emission free energy. Other forms of energy are wind and solar energy. Wind energy is also emission free and government subsidies are available for its use. Solar energy converts radiant energy from the sun into useable energy.

The Skeptics

Skeptics have been making their claims that Global Warming is not caused by human activity. The evidence they provide is that measurements of temperature are not accurate and models do not provide reliable projections of future climate change. Other evidence provided is that Earth’s temperature was warmer in the past. Another belief is that CO₂ does not cause global warming and the effects of CO₂ can be more beneficial than harmful.