Role of Scientist in dealing with issue like Global Warming

Global warming is a term used for the observed century-scale rise in the average temperature of the Earth's climate system and its related effects. Scientists are more certain that nearly all of global warming is caused by increasing concentration of greenhouse gases (GHG's). Within the earth's atmosphere, accumulating greenhouse gases like water vapour, carbon-dioxide, methane, nitrous oxide, and ozone are the gases within the atmosphere that absorb and emit heat radiation.

The scientists related to the environmental science continuously giving advise to reduce to accumulating the greenhouse gases as the temperature of earth is increasing very rapidly which can cause the melting of glaciers and these greenhouse gases can also can cause in ozone layer depletion and many other big problems.

The IPCC report concluded that a pattern of global warming has raised surface, oceanic, and atmospheric temperatures markedly over the past hundred years. At the same time, sea levels have risen, snow cover and glacial ice have diminished, rainfall has increased in the Northern Hemisphere, and droughts have plagued parts of Asia and Africa(Ulaby 2006).

According to NASA and IPCC, Global temperature has increased by 1.4 o F since 1880, CO2 levels has reached 400.71 parts per billion, loss of world's forest cover between the period 2000 and 2012 is 1.5 million square km, reduction of land ice 287 billion metric ton per year, sea level rise is 3.2 mm per year and loss of arctic ice cover at the rate of 13.3% per decade(Sivaramanan, n.d.).

Since 1880 Earth's average temperature has warmed by 0.8 C (1.4 F). This has reached a peak in 2014 even though it is an El-nino neutral

year. The warming of earth has been increasing more steeply during the last three decades (‘NASA,’ 2015).

As the global warming is continuously increasing so scientists along with the countries passed amendment named “Kyoto protocol 1997” in United nations on the climate change in which the parties are committed to bring down the emission of six greenhouse gases carbon dioxide, methane, Nitrous oxide, Hydrofluorocarbons, perfluorocarbons and sulphur hexafluoride.

Global warming is an increasing environmental issue, earths average temperature has warmed by 0.8 C, Annually billion tons of CO2 is being released to the atmosphere. Carbon capturing and sequestration methods are being widely used to minimize the CO2 level in the atmosphere. Clean development mechanism developed under Kyoto protocol promote greenhouse gas emission reduction in developing world. Making green certification as mandatory, ensure the control of greenhouse gases, spread the energy conserving techniques and appropriate pollution control mitigation strategies and increase public awareness on all known effects of global warming, funding more researchers and discover unopened areas of research, exploring impacts and finding mitigation are more importantly under evaluation by today’s scientists, environmental sector organizations so that a lot researches and deep study could be done by scientists and could get great environment.

References:

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