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# **Global Warming, Facts and Myth and How Should We Deal with It**

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Global warming is a fashionable subject for scientists and the public alike. The question is how much of it is based on sound scientific facts and how much of it is simply a myth resulted from our lack of knowledge of the climate.

Based on numerous direct and indirect measurements, the average temperature of the surface of the earth is found to have risen about 0.85 degrees C during the last 150 years. As natural fluctuations are considerable and the determination of this temperature is by no means reliable, base on such data alone is not enough to establish without doubt the effect of global warming. However, there are many other observations consistent with this effect. First, snows, floating icebergs and ice caps around the north and south poles are disappearing at an astonishing rate. Snow covered areas and glaciers are also fast diminishing. Second, many lakes are drying up rapidly. And the third, also the majority of climate scientists fear most, is that the average concentrations of atmospheric green house gases such as CO<sub>2</sub> and CH<sub>4</sub> have jumped up since the industrial revolution when human beings started to consume in vast quantity fossil fuels. The result is that a larger fraction of the heat generated by solar radiations and burning of fuels is trapped at the surface of the earth by the green house gases released, thus raising the temperature of the earth surface.

Many of the arguments discussed above are however repudiated by at least 10% of climate scientists. According to them, none of the evidence presented is good enough to convince them that the global warming observed during the past 150 years is a manmade effect. Regardless of the present scientific controversy, one thing is absolutely clear: our last ~10 generations have been wasting natural resources in vast amounts without regards for future generations. We have to have the moral courage to conserve precious natural resources that are formed from billions of years of evolution, and also to wisely deal with the problems of global warming. I will also try to compare the pros and cons of different renewable energies in great pursue now around the world.