

Resources, Climate Change and Environment: Understanding and Thoughts

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Abstract

It is both natural and justified to utilize natural resources. However, when we say we are justified to use them, we should bear in mind to protect our air, land and water, as well as to reduce waste, to lower greenhouse gas emissions.

Climate is changing which causes environment change. Resources that we are utilizing are tightly related to environment and its change. Therefore, understanding climate change and preparing for climate/environment change is so important for human safety and the stability of economical development that attention and efforts paid to the issue cannot be overemphasized.

Most recent IPCC's special report presents that "human activities are estimated to have caused approximately 1.0°C of global warming above pre-industrial levels". Actually observed global mean surface temperature for the decade 2006 to 2015 was 0.87°C warming. For the coming decades, anthropogenic global warming is estimated at ~0.2°C per decade, reaching 1.5°C warmer between 2030 and 2052". Consequences are glacial ice melt, sea level rise, harmful impact on economy, emerging diseases, et al. Therefore, we are facing challenges of environment/climate change and its impacts. We have to address this issue. To do so, we need to understand climate/environment change and prepare for the change and its impacts that are facing and approaching us.

This talk bases on information from our research results, my learned and my understanding as well as my thoughts about climate and environment change. Talk will focus on ice core studies. Brief introduction of ice core studies, such as why ice core studies, where to get ice cores and how to carry out ice core studies, will be presented.

Discussion on climate/environment change is welcome; especially on what we should do and how we should do, because it is everyone's responsibility to address environmental problems.