

Lecture outline of Topic 2  
on

Energy and Environment

- from environment around electric facilities to the global climate -

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**Abstract:**

IPCC (The Intergovernmental Panel on Climate Change) fifth assessment report (IPCC/**AR5**) on global warming issue is published in 2014, and is briefly introduced the contents in this lecture. CRIEPI (Central Research Institute of Electric power Industry) has studied the relationship between climate changes and future energy scenario, using the community earth system model CESM1 and simple climate model SEEPLUS.

On the other hand, local environment problem arises on the construction and operation of the various type of power plant. CRIEPI also has studied such impacts to air and water quality, etc., and has developed the prediction method for the environmental assessment.