

Lecture outline of Topic 1  
on  
Current Power Scene and Energy-Saving Technology on Demand-Side

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**Abstract**

Japan is depending almost all of energy resources on import from abroad. For this reason, energy-saving technology is one of key issues for us. In addition, electricity shortage originated with the Great East Japan Earthquake and the resultant shutoff of the nuclear power plants are imposing further energy-saving on us.

At the beginning of my lecture I will overview the current status of the power supply, and then focus on energy-saving technologies on demand side. I am also going to deal with distribution lines to supply electricity efficiently and cope with unstable renewable sources like photovoltaic. As the energy-saving issues on demand-side, I will give you several topics on buildings, lightings, appliances including heat pumps.