



**A Technical talk  
On  
*RECENT ADVANCES IN NON-CONVENTIONAL ENERGY SOURCES***

Energy is the key input to drive and improve life cycle. Primarily, it is the gift of the nature to the mankind in various forms. The consumption of the energy is directly proportional to the progress of mankind. With ever growing population, improvements in the living standards of human being, rapid industrialization and urbanization, the global demand for energy is expected to increase rather rapidly in the near future.

The primary source of energy is the fossil fuel, however limited availability of fossil fuels and large scale environmental degradation caused by their wide spread use, particularly global warming, urban air pollution and acid rain strongly suggests that non – conventional, renewable and environment friendly energy sources is vital for steering the global energy supplies towards a sustainable path

Renewable energy effectively utilizes natural resources such as sunlight, wind, tides and geothermal heat, which are naturally replenished. Renewable energy technologies range from solar power, wind power, and hydroelectricity to biomass and bio-fuels for transportation.

This technical talk covers the following topics:

1. Solar energy
2. Wind energy
3. Geothermal energy
4. Wave energy
5. Tidal energy
6. Bio-energy such as biodiesel and biogas

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