

**A report on**  
**“CHALLENGES AND OPPORTUNITIES IN**  
**THERMAL POWER SECTOR”**  
*(Expert Lecture)*

*27<sup>th</sup> April, 2017*

Today there is pressure on thermal power generation due to Government of India's emphasis on clean energy production such as solar power, hydro power, wind power and nuclear power. This is a transition time to migrate from thermal power generation to environmental friendly clean power generation. *Dr.K.Dakshina Moorthy, Director-Administration* clearly presented the power scenario, problems and challenges in India.

Indian Energy sector has consistently adopted relevant global trends to support sustainable growth in Indian economy. The increasing maturing of the sector is evidenced by adoption and indigenization of new technologies across the energy sector in general and power sector in particular.

Of late, the sector has grappled with new challenges which have arisen out of rapid growth of the sector. Some of these challenges will be overcome relatively quickly; some will require all the resourcefulness and intellect to convert them into promising opportunities for future.

The Indian power sector has achieved a lot over the last decade in the areas of policy reforms, private sector participation in generation and transmission, new manufacturing technology and capabilities, but there is still much to achieve and a number of challenges to overcome before the opportunities can be leveraged.

Strong growth in generation capacity led by per capita consumption, urbanization, there is strong growth opportunity in power generation led by exponential growth in economy, increasing propensity for electricity consumption and urbanization. India has made considerable progress in building up capability and uncovering opportunities for capacity additions.

Dr. Dakshinamurthy highlighted that there are lot many career opportunities in the thermal power sector such as

- Design Engineers
- Planning Engineers
- Manufacturing Engineers
- Sales Engineers
- Procurement Engineers
- Assessment Engineers
- Testing Engineers
- Erection Engineers
- Commissioning Engineers
- Operation Engineers
- Maintenance Engineers

Students of Mechanical Engineering benefitted a lot by listening to the lecture and interacted with the resource person about the key challenges in the power sector and growth with respect to the career aspect.