

IIT Bombay Diamond Jubilee Workshop on “Future of Energy Research and Education”



13-14 December 2018
VMCC, IIT Bombay



The energy sector is in transition – moving away from fossil fuels to low carbon energy technologies – renewables and energy efficiency. There are several challenges associated with the energy sector. As a part of the Diamond Jubilee celebration, Department of Energy Science and Engineering, IIT Bombay organizes a workshop on the future of energy research and education.

This workshop will bring together leaders from industry, research organisations, and academia to discuss the challenges and opportunities in the energy sector and create roadmaps and shared vision for the future.

The first day of the workshop focuses on energy research while the second day focuses on energy education. Outcomes from the workshop include recommendations on:

1. Identified research gaps and research priorities in short term (next 5 years), medium term (5-15 years), and long term (15-30 years).
2. Role of academia, administration, and industry towards development of indigenous technology and manufacturing facilities.
3. R&D infrastructure in academia, research organizations, and industry – Policy, funding, coordination between the various research institutes and administrative bodies.
4. Human resource development – Education goals for meeting R&D and academic needs of India, curriculum, training, job market, and coordination and collaboration between various educational institutes.
5. Framework for training of faculty members and technical staff.

Programme

Day 1 (13/12/2018): Energy Research

- 09:00-09:30 Inauguration
- 09:30-11:15 ONG & CCS, solar PV, wind/hydro/grid
- 11:15-11:30 Tea break
- 11:30-13:15 Solar thermal, biomass, storage/EV
- 13:15-14:15 Lunch break
- 14:15-16:00 Waste to energy, energy management
- 16:00-16:15 Tea break
- 16:15-17:30 Concluding remarks

Day 2 (14/12/2018): Energy Education

- 09:30-11:15 Common education goals
- 11:15-11:30 Tea break
- 11:30-13:15 Energy as a discipline
- 13:15-14:15 Lunch break
- 14:15-16:00 Curriculum, employability of graduates
- 16:00-16:15 Tea break
- 16:15-17:30 Concluding remarks

Guest Speakers

- Arun Kumar**, IIT Roorkee
- Babu Alappat**, IIT Delhi
- Jignesh Rathod**, Waaree Energy
- Jyotirmay Mathur**, MNIT Jaipur
- Kiran Deshpande**, SPPU and Thermax
- M. K. Surana**, HPCL
- M. T. Arvind**, Amplebit Energy
- Mahesh Patankar**, MP Ensystems
- Pankaj Batra**, CEA
- Ramkrishna Gadre**, Tata Power
- Richard Dias**, Saligao
- S. A. Matthew**, NIWE
- S. Dasappa**, IISc Bangalore
- Suman Basu**, Mahindra Electric
- T. C. Kandpal**, IIT Delhi
- Vasudeo Joshi**, Praj Industries
- Venkat Rajaraman**, CYGNI

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