Brief Report on DST Sponsored National Conference on “Recent advances in control strategies for integration of Distributed Generation sources to grid and control of their power quality issues” conducted by School of EEE during 22 – 23rd July 2016

The conference is attended by about 48 delegates from various institutes like Central Power Research Institute (CPRI), Bangalore, NEI, Mysore, RV College, Bangalore, Rajiv Gandhi Institute of Technology, Bangalore, Sir MVIT, Bangalore, JSS Academy of Technical Education, Bangalore and PG students of REVA University.

The conference was inaugurated by Chief Guest Dr. H. Nagannagouda, Director, National Training Center for Solar Technology, KPCL, Bangalore along with our Honorable Chancellor Dr. P. Shama Raju.

During the Presidential address by our Honorable Chancellor Dr. P. Shyama Raju had stressed upon the need of green energy concept to save the environment of earth and he had informed that already our REVA University Administrative building is implemented with Green energy building. He also said that REVA University will adopt green energy concept for other buildings by installing solar PV power plants in near future. He also narrated about the commitment of REVA University in popularizing the use of renewable energy sources by installing solar PV power plants in our campus and also teaching the students.

The Chief Guest Dr. H. Nagannagouda, had highlighted the use and importance of renewable energy in the growth of energy security of India.
During the inaugural session, the function was graced by other eminent dignitaries like Dr. N. Ramesh, Director Planning, Dr. Sunil Kumar Manvi, Principal, RITM, Dr. B.P. Divakar, Director (Research & Innovation) and Dr. Rajashekar P. Mandi, Director, School of EEE.

Dr. P. Shyama Raju during presidential address

Dr. H. Naganagouda, Director, NTCSE, KPCL, delivering inaugural address
Dr. Rajashekar P. Mandi, Director School of EEE had welcomed the Dignitaries and delegates for workshop. He also briefed about the proceedings of conference. Finally at the end of inaugural function, Prof. Narayana Swamy, Sr. Associate Professor of School of EEE had proposed vote of thanks.
Dr. H. Naganagouda, Director, National Training for Solar Technology, KPCL, Bangalore, had discussed on various solar based renewable energy technologies available and implemented in India. He provided the techno-economic feasibility study of implementation of various solar PV based energy technologies during his expert lecture. He had also discussed on the new area for research in the area of solar energy technologies.

Dr. Vaskar Sarkar, Associate Professor, IIT, Hyderabad had discussed on power output control of grid integrated photovoltaic systems, various techniques of maximum power point tracking for Solar PV power plants, Microgrid example with battery-backed and non batter-backed photovoltaic systems. He had also discussed on the new area for research in the area of solar energy technologies.
Dr. Shivkumar, Associate Professor, IIT, Hyderabad delivered a keynote speech on various topologies for inverters used for renewable energy systems. He also had discussed on various problems in tapping the renewable energy systems as well as issues related to integrating the renewable energy systems with grid. He also discussed the new area of research in multilevel inverters and also other topologies.

Mrs. Meera K.S., Joint Director, Central Power Research Institute (CPRI), Bangalore had delivered expert lecture on issues relating to integration of wind power generation into the grid and shared the knowledge & experience gained in consultancy works taken up by CPRI.
Dr. B.P. Divakar, Director (R&I) delivered expert lecture on Energy storage system for renewable energy system like Battery Storage Energy system (BSES) and Super Magnetic Energy Storage (SMES) system.

Dr. Rajashekar P Mandi, Professor, School of EEE delivered lectures on three topics i.e., overview of renewable energy systems & their importance in energy security of India, enhancing the energy efficiency of renewable energy systems by hybridization of renewable energy system with conventional energy source & energy storage system and the important role of renewable energy system in popularizing the smart grid, micro grid and LVDC systems in India.
Prof. K. Narayana Swamy, Sr. Associate Professor, delivered lecture on multilevel inverter topologies for renewable energy systems and discussed various options of multilevel inverters in controlling the harmonics in the system.

All the delegates have expressed satisfaction in attending the conference with a good and encouraging feedback about the conduct of conference, hospitality & the content of the expert lecturing by external experts as well as internal faculties.
Delegates in interaction with speaker

Delegates in interaction
Concluding Session address by Dr. S.Y. Kulkarni, Pro-VC, REVA University

Demonstration of Power Quality analysers