

K L E F (Deemed to be University)
Department of Electrical and Electronics Engineering
REPORT

Date Organised: 18-july-2019

Venue: Jasmine Hall, KLEF University

**PDP: Workshop on “SOLAR POWER PLANTS AND BATTERY ENERGY
STORAGE SYSTEMS IN UTILITY GRIDS AND MICRO GRIDS”**

Lightening the Lamp:

Every event begins with the auspicious lightening of the lamp followed by a prayer song.



Dr. K.L. Narayana, Dean R&D lightening the lamp

About the Workshop

IEEE Guntur sub-section in association with IEEE Hyderabad section has organised a PDP: Workshop on “SOLAR POWER PLANTS AND BATTERY ENERGY STORAGE SYSTEMS IN UTILITY GRIDS AND MICRO GRIDS” on 18-July-2019, Thursday at KL Deemed to be University, Guntur.

The guest for the workshop was Dr.P.V .Rajgopal, PES/IAS/PELS Joint Chapter/IEEE-Hyderabad Section. Dr. S.V.N.L Lalitha, Professor, Department of EEE, Vice chair IEEE Guntur, Dr.K. Narasimha Raju, Professor and HOD, Department of EEE, Dr. K.L Narayana, Dean R&D, KL Deemed to be University and Prof R.R.L Kantham, Registrar, KL Deemed to be University.



The workshop was primarily focused on the battery energy storage systems BESS and its applications. Added to that were some of the topics like

Solar tariff trend in the last few years

Solar map of India

Impact of using Solar and wind on the non-renewable resources

Core scenario RE generation

Impact on thermal units and plant operations compared to the new renewable energy scenario

Impact on imports and exports and transmission

Types of solar PV power plants.

ESS applications in micro grids

Role played by battery energy storage in utility applications

Comparison of various storage technologies

PES for solar PV based power generation and applications

Grid connected solar plants

Issues with regard to synchronization



In order to gain practical knowledge, the participants made a visit to Efftronics systems pvt.ltd, Vijayawada where Mr. Naresh, Manager, Mr. Bhavani Shankar, Executive Manager, Efftronics and Dr. D. Ramakrishna, CEO, Efftronics, chair person, IEEE Guntur sub section have delivered about energy management system, battery health monitoring system, predictive maintenance using power parameters monitoring, DC power packs for homes and buildings, machine learning and its importance and applications in the present scenario and future scope.

All the participants have visited the panel room where all the statistics related to the energy consumption of the company in various sectors were shown and how machine learning algorithm helps in sensing circuits.





Felicitation

Resource persons for the workshop were felicitated by the dignitaries of KL University





This was followed by the participants who came from different places, giving feedback about the workshop.



Success of the event

At the end of the day, the workshop was a grand success with overwhelming response and the participants were immensely happy regarding the inputs given by the resource persons.

