REPORT

Expert lecture on "FACTs devices in Power system"

By Dr. Kalyan Sen, Co-Founder/Chief Technology Officer of Sen Engineering Solutions, Inc., USA

In order to improve reliability, efficiency, reactive power management, and performance of the transmission line, different types of configurations are used such as shunt rector connected transmission line, Series capacitor connected transmission line, and combination of shunt reactor-series capacitor transmission line. Further, for successful implementation of above-mentioned configurations has been carried out using Flexible Alternating Current Transmission Systems (FACTS) devices. In order to spread awareness about " FACTs devices used in Power system", IEI students' chapter, Department of Electrical Engineering of L. D. College of Engineering has organized an expert session from Field expert for undergraduate students on April 1st, 2022.

The expert, Dr. Kalyan K. Sen is the Co-Founder/Chief Technology Officer of Sen Engineering Solutions, Inc. USA. Prior to this role, he worked for 33 years in academia and industry. He was a key member of the FACTS development team at Westinghouse Science & Technology Center. He became a Westinghouse

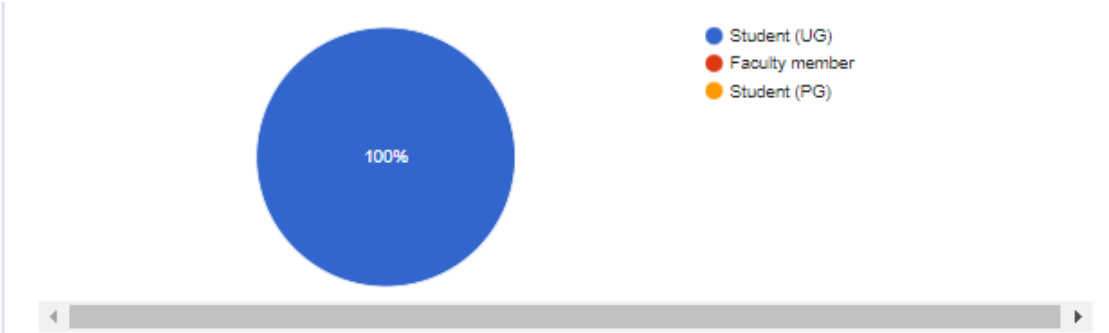
Fellow Engineer also. He contributed to the concept development, simulation, design, and commissioning of FACTS projects at Westinghouse since their inception in the 1990s. He conceived some of the basic concepts in power flow control technology for which he was elevated to the IEEE Fellow grade with the citation

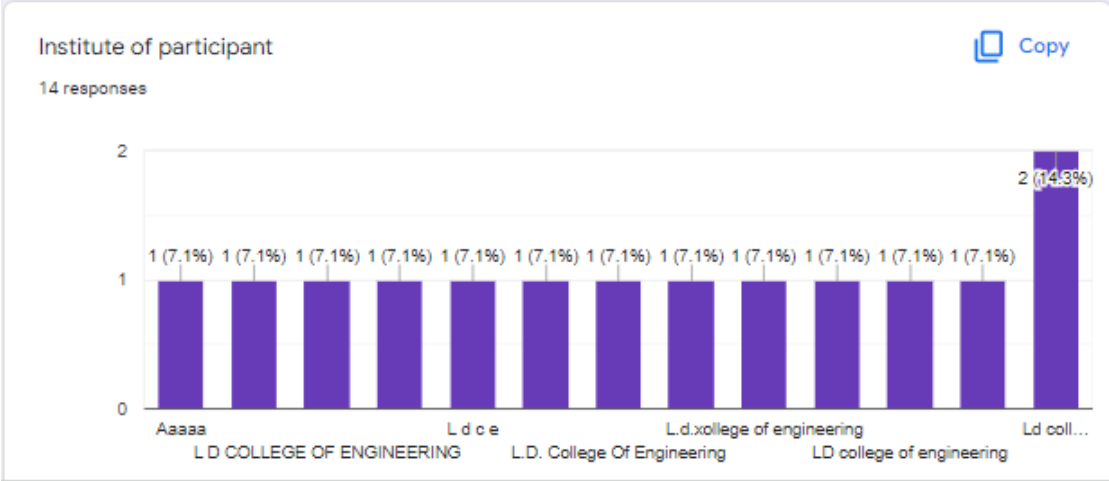
First of all, our Head of Department Prof. (Dr.) J.R.Iyer welcomed Dr. Kalyan sen with a momento. After short welcome speech, the expert, Dr. Kalyan sen has started his lecture on above mentioned topic. He discussed many practical aspects about FACTs devices used in Power system.

Initially, he narrated the need of FACTs devices in our conventional power system network. Thereafter, he discussed different locations for installation of FACTs devices such as source end, load end, and mid point of the transmission line. He also explained comparative analysis of the same. Moreover, he discussed few equations to explain that by utilizing FACTS devices , the load-ability of the transmission line can be further increased.

He has also motivated our student to carry out their further study on FACTS devices. He has also discussed Sen Transformer briefly which he had patented. Thereafter, question answer session was conducted. Dr. Sen has given satisfactory answers to all the question. At last vote of thank has been presented by Dr. Kunal Bhatt, Faculty Co-originator of IEI students chapter.

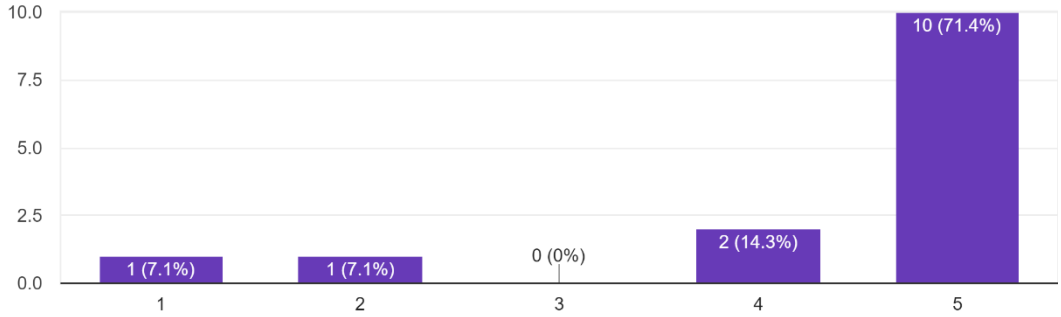
Feedback form analysis





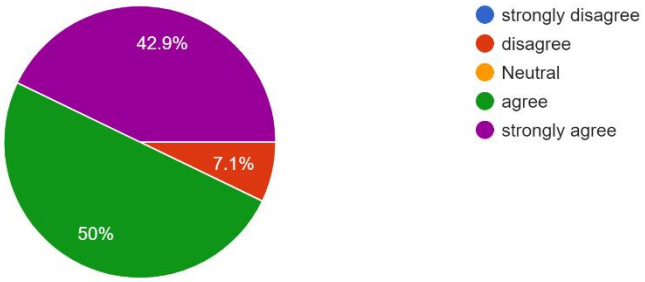
During this expert session, time punctuality has been maintained

14 responses



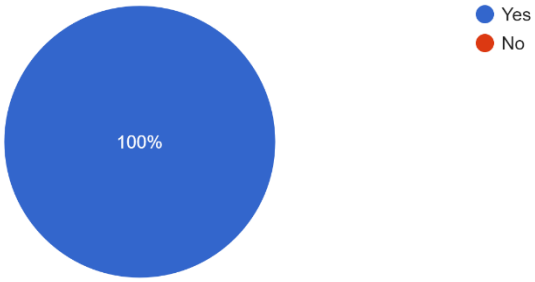
Time provided for question-answer session was sufficient

14 responses



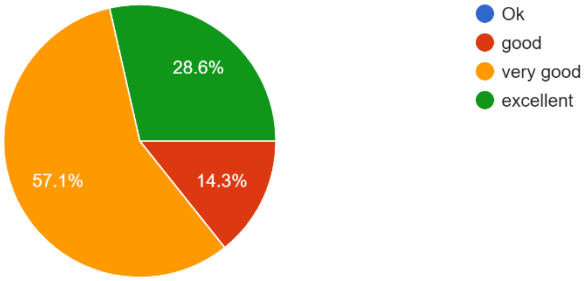
Due you think that case studies which were discussed during the session were interesting and worth sharing?

14 responses



Rate the speaker

14 responses



Is this Expert lecture useful for personal development?

14 responses