



Data Analysis And Management in Clean Energy Revolution

IEEE MVSR PES Student chapter has conducted a webinar on “ Data Analysis And Management in Clean Energy Revolution”. This webinar was conducted for the eve of PES Day 2021 with the help of the PES Ambassador on the topic of Clean Energy Technologies. This webinar was a mere help from the IEEE MVSR PES chapter to help students gain knowledge of various renewable energy sources and how the data analysis can be used in the clean energy sector.

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Professor, School of CIS,
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Student Branch Advisor:

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Student Branch Counsellor:

Dr. D. Hari Krishna,
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Women in Power	Ms. T. Snigdha

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Session details:

Date: 05th April 2021.

Time: 2.45pm – 4.15pm

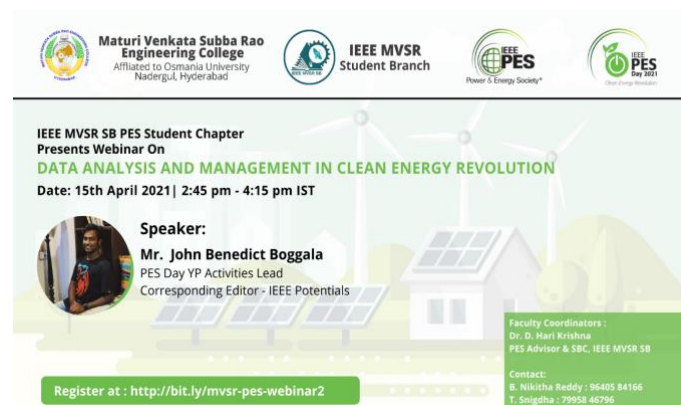
No. of participants: 32



Speaker sharing his contact information.

The webinar was delivered by Mr John Benedict Boggala, PES Day YP Activities Lead and Corresponding Editor at IEEE Potentials.

Mr John Benedict is a consultant for product design & BD and a former Hardware Engineer who worked for Amazon as Manager - I for their Devices and Digital Support Teams He has been a part of IEEE for about 10 years now. He has worked with Societies and Affinity Groups and currently volunteers for IEEE R10 as a member of the ECIM and the Membership Development Committee. He previously worked with HTA for which he has received certificates of appreciation. He serves as the R10 South Asia Young Professionals Representative. He also works with IEEE Potentials as its Corresponding Editor and is a contributor to IEEE Spectrum. He serves IEEE PES as its chair for Promotions and Marketing and also as its R10 YP Representative. He was also the vice-chair for IEEE Xtreme.



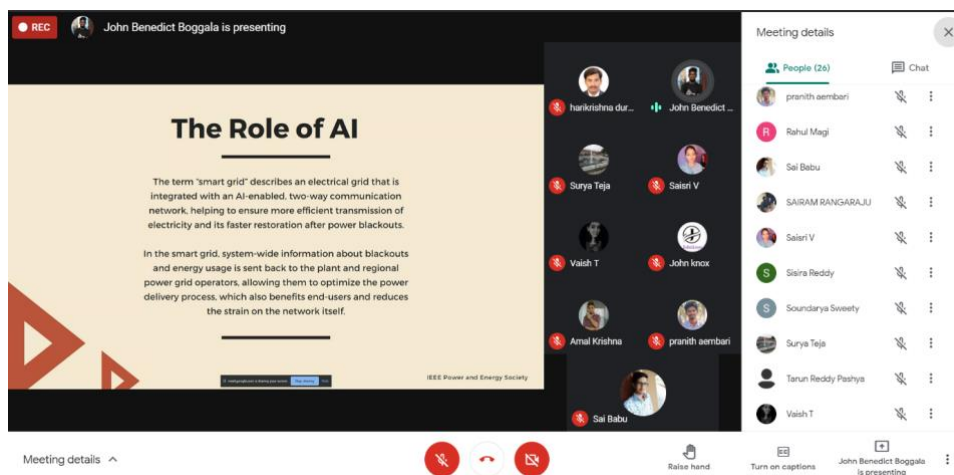
Poster of the webinar.

IEEE MVSR PES Women In Power Ms Snigdha Tallada has initiated the session by saying that she has got selected as PES Ambassador for the PES Day 2021 and for the eve of PES Day they are organising this webinar on Clean energy technology topic. Then she firstly thanked the speaker of the event, Mr John Benedict, for readily accepting the request to deliver the webinar. Later, she welcomed the speaker, faculty of MVSR Engineering College and all the attendees who have attended the webinar.

She then requested Dr D. Hari Krishna, Student Branch Counsellor & PES Student Chapter Advisor, IEEE MVSR SB to address the meeting. He has shared about various events that have happened and also about the various awards bagged by IEEE MVSR SB and advised students to take the IEEE memberships. He thanked the speaker, Mr John Benedict, for the webinar.

She then requested Mr G. Surya Teja, Joint secretary of IEEE PES Student Chapter to give a brief introduction about the speaker. She thanked Mr Surya Teja for giving the introduction. Later, she requested the speaker Mr John Benedict Boggala to take over the session.

The speaker has begun the session by thanking IEEE MVSR SB for providing this opportunity and appreciated the coordinators of the event. The speaker started the webinar by saying that this is the time now where smart grid technology will be in trend in the future. He has also explained Artificial Intelligence and its role in the smart grid.

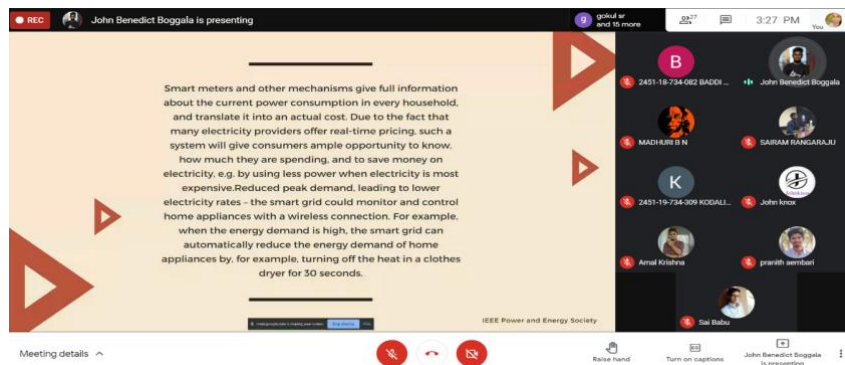


Speaker explaining the role of AI

He mentioned that Traditionally Power Grids were designed as – dimensional system sending power to homes and offices. The Smart Grid is a power delivery network same as what the nervous system is to blood vessels in the human body – it regulates the infrastructure to help it achieve an optimal state of performance, e.g. by delivering electricity evenly during peak usage hours.

He briefly explained that Smart Grids take advantage of a mesh of IoT devices and sensors that gather and transmit the data back and forth in the system, making it possible to automatically adjust electricity flows. Remote grid managers can easily be informed of issues in real-time and can act immediately if there is a problem.

He also told about the quick restoration of electricity after power disturbances. AI sensors in the grids allow detecting the exact location of the failure, and about smart meters and the usage of them.



Speaker briefing about the Smart Grids

He explained that significant investments in the infrastructure will be needed to help smart grids fully take off and before embracing it, there will be a lot of testing and improvements to ensure that the benefits we envision from the smart grid become a reality. And more than one billion people around the world lack access to electricity, and for many poor countries, power at best is unreliable, unsafe and prohibitively expensive. The technology of the future that will allow for a more eco-friendly relationship with our environment is rapidly approaching. And electric charging points for operating the world's largest EV charging network, with a mission to get more people driving electric vehicles and making sure they have a place to charge them nearby where ever they go.

He finally told about the digital grid solutions with the impact of future technology on saving energy.



Speaker illustrating various bulbs.

Later, the speaker cleared the doubts raised by the attendees. Then, the speaker concluded his webinar by thanking all the members present in the meeting.

Then, Ms Snigdha, Women In Power, IEEE MVSR PES requested Dr . D. Hari Krishna to present a virtual memento to the speaker Mr John Benedict.



Virtual memento to the speaker

The session came to an end after the vote of thanks was given by IEEE MVSr PES Secretary, Ms P. Sisira Reddy.

REPORTED BY –

IEEE MVSr SB.