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Join for an Expert Talk on 23rd January 2024, Tuesday, at 10:00 AM.

Head Electrical Engineering <head@ee.iitr.ac.in>

Wed, Jan 17, 2024 at 11:02 AM

To: Faculty-Notices <faculty-notices@iitr.ac.in>, Students-Notices <students-notices@iitr.ac.in>

Dear All,

We are glad to invite you to join for an Expert Talk arranged on **23rd January 2024, Tuesday, at 10:00 AM.**

Further details of the event are given as follows:

Speaker: Pavan Kumar Pillalamarri, Market Intelligence Leader, GE Gas Power part of GE Vernova.

Topic: Decarbonization of Power Industry with Energy Future of India as a Focus Area

Venue: APJ Block, Room No. APJ AKB-001

Expert would like to touch upon the following key topics in his 2 hours duration talk:

India's Energy Future, Decarbonization and its importance, Pathways to Decarbonization, Grid Management, Use of AI in Smart Grid and Challenges, Market Dynamics, and Road Map for future.

Abstract of the Talk:

India is now the 5th largest economy in the world and is slated to grow in the next few decades with a rate that's higher than most of the world. In this context, the energy demands of the country would see tremendous growth as well; in fact, India is expected to see the largest growth in Per-capita Kilowatt Hour (kWh) consumption in the world!

To secure the energy demands of the country, India finds itself at a crossroads where it must provide reliable, affordable and sustainable power to it's people. Green Hydrogen and Carbon Capture can be some of the options along with dedicated focus on improving Battery Storage technologies.

This talk predicts the energy demands while of the country is articulating various pathways to achieve Renewables growth, Gas based economy, using Hydrogen as a fuel, technologies that are currently available to decarbonize and finally the talk would focus on investment and technology, including AI/ML, that is required on the Grid to balance the variable renewable energy with fixed thermal power.

All interested are welcome and enjoy the interaction with the expert!

Best regards,

Mukesh K Pathak

Head
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