



## Press Release

### POSOCO organises 2-week training program on Power System Modelling and Simulation for BBINS countries



**New Delhi:** National Grid operator Power System Operation Corporation Limited (POSOCO) is organizing a two-week training program on ‘*Power System Modelling and Simulation*’ from 18th-29th April 2022. The training is being attended by participants from Bangladesh, Bhutan, India, Nepal and Sri Lanka at Indian Aviation Academy, New Delhi. The workshop is funded by the United States Agency for the International Development (USAID) and is being organised in close association with The Integrated Research and Action for Development IRADe.

The workshop was inaugurated by Sh. Alok Kumar, Secretary (Power), Ministry of Power, Government of India in presence of Sh. S. R. Narasimhan, CMD POSOCO, Sh. R V Shahi, Chairman, SAGE – RIS, Sh. John Smith-Sreen, Director, Indo-Pacific Office, USAID, Dr. Jyoti Parikh, Executive Director, IRADe, Sh. Vinod Kumar Agrawal, Technical Director, SARI/EI, Sh. R.K. Porwal, Head NRLDC (Program Director), and Sh. Kirit Parikh, Chairman IRADe along with officials from POSOCO.

On this occasion, Sh. Alok Kumar, Secretary (Power), Ministry of Power said, “As we speak today all the countries in this region of South Asia have two key aspirations, one is to develop to see the economic growth and another is to see energy security. Every country in South Asia including India is making plans to use more of their energy resources, be it solar, wind, etc. These countries are also trying to diversify their energy resources.”

He added, “In the next two decades, all the developing economies will see larger development of energy supply. The role of the grid will be far more important as the larger number of consumers will generate energy through the rooftop. The schemes like Kusum will see small projects like half mw being injected into the grid.” “There will be supply-side and demand-side complex as we will see more and more solar and offshore wind projects and to this, we need effective grid planning. The job of planning and also managing the grid is going to be very complex and POSOCO’s workshop will help in this. The total scenario of energy supply and energy demand will call for a very high level of analytical capacities.”

Sh. S. R. Narasimhan, CMD POSOCO, said, “The faculty from POSOCO will bring with them 220 years of experience collectively. While modelling and simulation is part of engineering, it is only engineers in operation who actually get to use this experience. Over the years, advanced computing has made life easier but the system has become complex with more renewables. Now there are more unknown unknowns. By gathering data from field level through high-speed recording devices, it is helping in conveying unknown unknown into known unknown. Overall, the grid will be more challenging as more renewables is injected into the grid.”

Sh. R V Shahi, Chairman, SAGE – RIS (former 2002-2007 MoP secretary) said, “Transmission has always been very important. Now again it has become important in the context of renewables. In the last 45 years, I have seen the relevance and criticality of the transmission system. The transmission system in the Indian context is a critical issue. We have run the system with 48.3 frequency in India and we have reached a stage where we talk of 49.99 frequency now.”

Sh. John Smith-Sreen, Director, Indo-Pacific Office, USAID, “Security of the grid as well as transition towards cleaner energy are the two main key issues. US President Joe Biden after taking over the office recommitted for clean energy and climate change as it impacts all of us in different ways and for this, we can get better results through partnerships. As we talk of South Asia Forum of System Operators, it is important that there is an exchange of knowledge sharing and capacity building among grid operators in South Asia and in this, organisations like POSOCO will be key for success.”

Power System Modeling and Simulation training program is designed to familiarize participants from the basics to advance level of power system. This course has theory as well as hands on sessions on power system, per unit system, modelling of power system elements , steady state load flow studies, fault analysis, dynamic modelling and simulations, reactive power studies, , transfer capability assessment and optimal power flow.

The program is being delivered by engineers from POSOCO and it would include self-assessment tests on major functional areas covered in the course followed by interactive sessions with senior executives and industry experts. The participants would get an opportunity of field visits to world’s first multiterminal HVDC station at Agra. They would also visit one of the largest Regional power system control centres and Renewable Energy Management Centres in India.

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