SEMINAR ANNOUNCEMENT

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Area: Power and Energy Systems

Host: Prof Dipti Srinivasan

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IEEE Computational Intelligence Society (CIS)
IEEE Power & Energy Society (PES) Singapore Chapter and
ECE Dept (Green Energy Management & Smart Grid Centre)

TOPIC	:	**Optimization Model of a Combined Wind-PV-Thermal Dispatching System under Carbon Emissions Trading in China**
SPEAKER	:	**Mr Shufan Mei** **Graduate Student, North China Electric Power University**
DATE	:	**Friday, 28 May 2021**
TIME	:	**3.00PM to 3.45PM**
WEBINAR	:	**Join Zoom Meeting** **https://nus-sg.zoom.us/j/87236886839?pwd=a1UvQzRBMkxNM2hhNWhEbVJlOHRFdz09** **Meeting ID: 872 3688 6839** **Passcode: 606094**

ABSTRACT

The traditional dispatching optimization model determines the most economical scheduling mode, while ignoring the efficient use of renewable energy. However, to properly utilize thermal power generation and renewable energy power generation, it is important to construct an optimization model of the combined wind-photovoltaic (PV)-thermal dispatching system under a carbon emissions trading (CET) mechanism. In this talk, Shufan will explain the developed optimization model and highlight the two-fold advantages of his proposed solution. It is noted that the proposed model alleviates the serious problem of electricity being abandoned in the existing scheduling mode and helps to realize economical low-carbon dispatching of the power system.

BIOGRAPHY

Shufan Mei received his B.S. degree in engineering management from North China Electric Power University in 2017 and is currently working towards a Ph.D. degree in management science and engineering. His area of interest includes electricity market and energy-economy-environment(3E) development. His current research focus is to explore the feasibility of replacing fossil energy with high penetration of renewable energy.