



Invited Speaker WEBINAR

28TH May 2021 | 3:00PM – 3:45PM (GMT+8)

IEEE PES SINGAPORE CHAPTER + IEEE CIS

Optimization Model of a Combined Wind-PV-Thermal
Dispatching System under Carbon Emissions Trading in China



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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.

Speaker: Mr Shufan Mei

Short Bio: 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.

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