SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
Faculty of Engineering
Website: https://www.eng.nus.edu.sg/ece/

Area: Power and Energy Systems

Host: Prof Dipti Srinivasan

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

TOPIC	**:**	**Coordinated Planning Method for Optimizing Tidal Current Electricity Generation**
SPEAKER	**:**	**Mr Hui Li** **Graduate Student, Chongqing University**
DATE	**:**	**Friday, 11 June 2021**
TIME	**:**	**3.00PM to 3.30PM**
WEBINAR	**:**	**Join Zoom Meeting** **https://nus-sg.zoom.us/j/83270755663?pwd=VXlNRVZ1M2pqR1ozd2psbGhVVXpoQT09** **Meeting ID: 832 7075 5663** **Passcode: 006180**

ABSTRACT

Tidal energy has received increasing attention in recent years and is regarded as an excellent renewable energy resource with huge potential. To obtain the profitable and reasonable allocations of tidal current generation farms (TCGFs), this talk will discuss a tidal resource evaluation based planning method. The directionality and variability of tidal current velocity (TCV) and their correlation are addressed. A coordinated optimization planning model for tidal current turbines, marine cables and power station, as well as a modified solution algorithm will be presented. Case studies with the measured TCV data collected from Alaska and Scotland will verify the effectiveness and adaptability of the proposed method. In addition, research on this topic finished by Hui Li's group will also be briefly introduced.

Hui Li (Student Member, IEEE) is currently working toward the Ph. D. degree with the School of Electrical Engineering, Chongqing University, China. He is a visiting Ph.D. student with NUS from 2021 to 2022. His research interests include planning of TCGFs and microgrids, and the application of deep learning in power systems.

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Speaker: Hui Li

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Time: 11th June, 2021 03:00 PM to 03:45 PM Singapore

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