

Security of Electricity Supply with Growing Shares of Renewables and Phase-Out of Conventional Generators

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Energy Resources and Innovation Economics at the E.ON Energy Research Center at RWTH Aachen University in Germany

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3:00 pm to 4:30pm

ESI Conference Room

29 Heng Mui Keng Terrace

Block A, #10-01, Singapore 119620

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Synopsis

The recent expansion of intermittent renewable power capacities has been impressive. Simultaneously, conventional plants such as nuclear or coal-fired power plants are being phased-out of energy systems. In this context, the question arises how these developments might impact security of supply. Eventually, depending on the impacts, energy policy makers might need to re-evaluate the acceptable level for energy security for society.

In this talk, new approaches will be presented along with insights gained from recent developments in Germany. Furthermore, applying energy economic theory, the question will be elaborated on how to identify optimal levels of reliability in energy systems from a welfare economic perspective.

About the Speaker

Professor Aaron Praktiknjo is assistant professor for Energy Resources and Innovation Economics at the E.ON Energy Research Center at RWTH Aachen University in Germany. His research group focuses on energy market design and security of energy supply. He holds a PhD in energy system analysis from TU Berlin for which he has received awards from the International Association for Energy Economics (IAEE) and the European Energy Exchange (EEX) amongst others. He is President of the GEE, the German affiliate of the IAEE, and spokesperson of the Research Network Energy System Analysis of the German Federal Ministry for Economic Affairs and Energy. Together with Professor Peter Zweifel and Professor Georg Erdmann, he co-authored the textbook 'Energy Economics - Theory and Application'.