

Current Research on Renewable Energy and Energy Storage at NTU, Singapore

Organised by: Centre for Smart Grid and Sustainable Energy Systems
and IEEE PES/PELS WA Chapter

Speaker: Professor S. S. Choi

Venue: Building 204 Room 122, Curtin University

Date: 29 May 2013 (Wednesday)

Time: 1 – 2pm



Abstract

Three current research projects into renewable energy-energy storage systems will be described.

The first project is pertaining to a proposed statistical approach to the design of a battery-supercapacitor hybrid energy storage system to achieve power dispatch control of wind farm.

The next project is on the design of a series-connected photovoltaic generator (SPVG) capable of enhancing power quality.

The last topic is on dish-Stirling solar-thermal power plant. A simplified adiabatic model of the Stirling engine is developed for the study of grid-connected power plant.

Biography

Professor Choi is currently a Professor in the School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore. His research interests include power system analysis and control, renewable energy and energy storage systems.