

**Title** Renewable energy sources and energy storage systems for low carbon society

**Speaker** Prof. Toshihisa Funabashi  
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University of the Ryukyus



**Date & Time** Friday, August 31, 2018 2:00 p.m.

**Place** Meeting room, 2nd floor, I2CNER Bldg.1, Ito campus, Kyushu University

### Abstract

In Japan, large penetration of distributed generations with RE sources such as photovoltaic (PV) power generations and wind power generations, is going based on government policy which is towards construction of low carbon society aiming at sustainable society. Although these RE sources are free from exhaustion and do not generate greenhouse gas emissions at time of power generation, some of RE sources have a demerit such as output power instability by weather conditions and difficulty of output power forecast. With large penetration of such variable output sources, it will be difficult to maintain supply and demand balance in a total power system. In Japan, challenging Japanese style smart grids has been started aiming at realizing a low carbon society without losing power system's reliability, economics and resistance to environment.

### About the Speaker

Prof. Toshihisa FUNABASHI received the B.S. degree in electrical engineering from Nagoya University, Aichi, Japan, in 1975. He received the Doctor degree in electrical engineering from Doshisha University, Kyoto, Japan, in 2000. In 1975, he joined Meidensha Corporation, Tokyo, Japan where he had been engaged in research on power system analysis and also distributed generation applications in power systems. Since April 2014, he is a professor of Nagoya University, Aichi, Japan His current interest are operation and control of power systems with renewable energy sources, output power forecast of photovoltaic and wind power generations, and generation and transmission lines planning considering large integration of renewable energy sources and power electricity markets. He has published over 100 journal papers and over 150 international conference papers in these technical areas. Prof. Funabashi is a Chartered Engineer in the U.K, a member of IET, a senior member of IEEE and a member of IEE Japan. Academic press has published his book titled "Integration of Distributed Energy Resources in Power Systems, -Implementation, Operation and Control-" on March, 2016.

**Host:** Professor Nguyen Dinh Hoa

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