



**Energy Charter Workshop in partnership with
Institute of Energy Economics of Japan and
Japan Renewable Energy Foundation**

Increasing role of renewable energies in Japan and future scenarios for electricity interconnections in Northeast Asia

**Venue Address: KPMG office
Room A of KPMG Azsa LLC, Otemachi Financial City, South Tower 20th Floor**

From 14:00 till 17:00 Thursday, 20 November 2014

Programme

13:30 – 14:00 Welcome coffee and registration

14:00 – 14:20 Opening remarks by Amb. Urban Rusnák, Secretary General, Energy Charter Secretariat

14:20 – 14:40 Keynote speech 1. - “Exploring Power Supply Challenges of Northeast Asia” by Mr. Nobuo Tanaka, Special Envoy of the Secretary General and Global Associate for Energy Security and Sustainability, IEEJ

In Northeast Asia, new security concerns are emerging with regard to energy use, energy security, and the sustainability of economic growth. At present, Japan, the Republic of Korea and China are increasingly searching for economically rational, diversified, and reliable supplies to support their energy needs. Russian hydropower and renewable energy potential of the Gobi desert shared by Mongolia and China in the Northeast Asia region represent a potential new source of supply to the Japan, providing the country with the opportunity to diversify its power supplies both geographically and in terms of energy mix thereby promoting competition and protecting the environment. New paradigm of enhanced regional energy cooperation could facilitate a reconfiguration of political and economic ties in the region.

14:40 – 15:30 Panel I: Future scenarios for electricity interconnections in Northeast Asia

The Gobi desert has tremendous potential of wind and solar energies. Russian Siberia has huge coal reserves and hydropower potential. These two geographic zones are very attractive for development of new energy sources but these regions are very isolated. The main question is it possible to transport electricity via Asian Super Grid and connect the countries in Northeast Asia?

Moderator: Mr. Nobuo Tanaka, Special Envoy of the Secretary General and Global Associate for Energy Security and Sustainability, IEEJ

Presentations by:

- Dr. Ernesto Bonafé, Expert, Energy Charter Secretariat
- Mr. Dmitry Sokolov, Researcher, Asia Pacific Energy Research Centre

Followed by interactive discussion among all participants

15:30 – 15:50 Keynote speech 2. - "Power-Sector Integration of High Shares of Renewables; RES-E NEXT" by Mr. Kristian Petrick, Acting for the Operating Agent of the IEA-Renewable Energy Technology Deployment (IEA-RETD) Implementing Agreement

The rise of renewable sources of electricity (RES-E) is transforming power systems globally. This trend is likely to continue with large increases in investment and deployment of RES-E capacity over the coming decades. Several countries now have penetration levels of variable RES-E generation (wind and solar) in excess of 15% of their overall power-generation mix; and many jurisdictions (e.g., Spain, Portugal, Ireland, Germany, and Denmark; and, in the United States, Colorado) have experienced instantaneous penetration levels of more than 50% variable generation. These greater penetration levels of variable RES-E have prompted jurisdictions to begin modifying practices that evolved in an era of large, readily dispatchable, central-station conventional power plants. A changing resource mix with greater penetration levels of variable RES-E has implications for grid operations, wholesale and retail power markets, and infrastructure needs. Thus, next-generation RES-E policies must be designed to address these emerging issues in an effective manner.

15:50 –16:40 Panel II: Increasing role of renewable energies in Japan

The energy challenges of Japan cannot be solved without vast increment of renewables. Globally, the cost of renewables are rapidly declining, in the mean time, the new installations of renewables are rapidly increasing. For Japan, this global development has created a bright future for this island state. Realizing high penetration of renewables in Japanese market, the stable business environment for investments is required.

Moderator: Ms. Mika Ohbayashi, Director, JREF

Presentations by:

- Dr. Hiroshi Takahashi, Senior Researcher, Fujitsu Research Institute
- Mr. David Povall, CEO, RES Asia Pacific

Followed by interactive discussion among all participants

16:40 – 16:50 Closing remarks by Mr. Teruyuki Ohno, Executive Director, JREF