

Shanghai Forum 2017 Perspective Highlights

Green & Development ——The Mission of Energy Internet SHANGHAI FORUM 2017 ROUNDTABLES 06 Session One 14:15-15:30, May 27

Chair: Li Yanling Shanghai University of Electric Power

Moderator: Gu Chunhua University of Shanghai for Science and Technology

Li Junfeng Energy Transitions in the Internet Era

National Center for Climate Change Strategy and International Cooperation

Energy transition is driven by the development of transformation. Changes in the development of spirit and ideas leads to changes in the development model; innovation of science and technology is helpful to the energy transition; changes in business philosophy leads the transitions of development model; cultural and artistic products become a new impetus of changes in the growth mode. Energy transition also needs to keep up with the changing situation.

Wu Libo Center for Energy Economics and Strategy Studies, Fudan University

The Application of Big Data of Electric Power

1. The data is the core of Energy Internet. Energy Internet technology cannot be achieved without data. Big data analysis is the core of Internet + energy.

2. We have done some basic work and would like to share with you, including application of demand side power big data analysis, powerful data storage analysis architecture and visualization, analysis of industry electricity data and analysis of residential electricity data.

3. We proposed the protection mechanism and policy proposals of energy data's application.

Wang Jianhui Electric Power System Group, Argonne National Laboratory

Grid Modernization Research in the U.S

In general there are many opportunities and a lot of challenges for the development of the US power system. The implementation of smart grid with large-scale expansion brings a lot of opportunities to the power system. There are many challenges to the operation and planning of power systems. In response to these challenges United States has done a lot of work.

(Editor: Di Chao)



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Green & Development — The Mission of Energy Internet

SHANGHAI FORUM 2017 ROUNDTABLES 06 Session Two 15:50-16:45, May 27

Chair: Li Yanling Shanghai University of Electric Power

Moderator: Wang Jin International Energy Research Institute, National

Development and Reform Commission

Zhang Xiaoping Energy Research Institute, University of Bermingham

Development of Global Power & Energy Internet in Europe: Challenges

and Solutions

1. The main challenges for the energy internet development in Europe.

2. Why we need the global energy Internet.

3. European solutions, development status and basic ideas.

4. Global energy Internet governance issues.

Wei-Jen Lee Energy Research Center, University of **Optimal Operation of PEV Charging Station through Energy Internet**

1.In terms of application, how to use the energy internet to combine the new

energy and charging pile together.

Texas, Arlington

2. The development of electric vehicles is subject to many factors. Because of the Chinese haze and other environmental issues, they have a broad space

for development.

Wu Jie

Risk-informed Configuration Risk Management

College of Automation Engineering, Shanghai University of Electric Power 1. The risk perception in the post-industrial era: new technology has led to the increase of new uncertainties and requires new coping strategies.

2.Nuclear power risk management, the changes in reactor safety management systems, probabilistic risk assessment (PRA) technology, nuclear industry-specific risk management techniques and application

prospect of risk management technology.

(Editor: Di Chao)