

### **IEEJ's Research Themes for FY 2013**



As a reference to "Future APERC Activities"

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# Emerging landscape with regard to energy security/sustainability

- Historic volatility in global energy prices
- Growing energy demand in Asia and its implication to global energy security
- Emerging concerns for energy supply constraints
  - Geopolitical risks, resource nationalism and issues of market power
    Ongoing "MENA crisis", "Iranian crisis", etc.
  - Lack of timely investment in resource development
  - Importance of stability of energy transportation
- Impacts of Unconventional Oil & Gas Development
  - Impacts of US Shale Gas Revolution
  - Impacts of US Energy Independence
- Environmental challenges for sustainability
  - Climate change and global environmental problems
  - Local and regional environmental problems
- Unprecedented impacts of "March 11th" (East Japan Great Earthquake and "Fukushima Daiichi accident")

### **IEEJ's Research Themes for FY2013**

- Analysis on Japan's energy and environment policy (for both short and long term)
- 2. Comprehensive analysis on international energy situation surrounding Japan
- 3. Comprehensive analysis on international climate change policy and Japan strategy
- 4. Analysis on energy challenges in Asia (and other major region) and the way forward to promote energy cooperation
- 5. Analysis on energy challenges by type of energy
- 6. Development of data/information on energy supply-demand and prices



- A) Objective and quantitative analysis for Japan's "Best Energy Mix"
- Analysis on the respective challenges for energy savings, renewable energy, fossil fuels and nuclear in Japan
- Analysis on policy issues for energy industry structure (power, gas, oil and renewable industries) in Japan
- Analysis on Japan's climate change policy goal which is consistent with energy policy goal
- E) Analysis on Japan's international energy strategy for enhancing energy supply security
- F) Analysis on Japan/Asian and the world energy outlook



# 2. Comprehensive analysis on international energy situation surrounding Japan

- Analysis on energy policy of major countries including US, China, etc. under the respective new administration/leadership
- B) Analysis on MENA ("Arab Spring", Iranian issues, etc.) and Russia/FSU situations
- c) Analysis on unconventional energy resource development in the world and its impact on the world energy market
- Analysis on "US energy independence" and its implication on global geopolitics of energy
- E) Analysis on the world oil and gas market increasingly influenced by world economy and financial markets
- F) Analysis on nuclear energy policy in US, Europe, Asia and the Middle East
- G) Analysis on the challenges to further promote energy savings and renewable energy introduction in the world



# 3. Comprehensive analysis on international climate change policy and Japan strategy

- Analysis on global climate change policy goal under the new political, economic and energy market situation in the world
- B) Analysis on climate change policy of US, EU, China, India and other major countries
- Analysis on international negotiations on climate change issues and Japan's strategy
- Analysis on such measures for climate change as low carbon technology, credit system, FIT system, etc.
- E) Analysis on carbon market and emission trading system
- F) Analysis on international rules for technical and financial cooperation toward the developing countries to combat climate change
- Analysis on technology development for solving climate change



- A) Comprehensive analysis on energy security and environment problems for Northeast Asia (including Russia)
- B) Analysis on Japan's international energy policy towards China, India, Korea, ASEAN, etc.
- Analysis on APEC and Middle East energy situations and Japan's energy cooperation
- D) Analysis on multilateral energy cooperation in Asia and Japan's strategy
- E) Joint studies with research institutions in Asia on the topics of common interests such as "Asian premium on LNG prices", etc.

#### 5. Analysis on energy challenges by type of energy

- A) Oil: Security of oil supply and international competitiveness of Japan's oil industry
- B) Gas: Security of gas supply and challenges for increased role of gas in Japan
- c) Power: Challenges for Japan's power industry structure and market reform
- **D)** Nuclear: Nuclear re-start and long term nuclear policy for Japan
- **E)** Renewable: Challenges for renewable promotion policy in Japan and the world
- F) Coal: Global coal market analysis and CCT development
- Energy saving: Challenges for further promotion of energy saving in Japan and international cooperation for energy saving



# 6. Development of data/information on energy supply-demand and prices

- A) Enhancement of basic energy data/information collection in Japan and the world
- **B)** Monitoring of oil product prices and market in Japan and Asia
- c) Data/information activities by Green Energy Certificate Center
- **D)** Enhancement of international networking for energy statistics
- E) Activities to enhance data transparency in the world oil and gas market (JODI)



### Closing...

#### IEEJ's Mission

 "Consider the Energy-Environmental Issues of Japan and Asia from a Global Perspective and Propose Policy Solutions"

I hope IEEJ's research concept will be of any help to APERC research activities, and would like to welcome initiatives to enhance our collaboration between IEEJ and APERC