

April 15, 2011

WEC Asia Regional Meeting and Scenarios Workshop

The **WEC Asia Regional Meeting** took place in Bangkok, Thailand on March 25. WEC members from China, Hong Kong China, India, Indonesia, Japan, Korea (Rep.), New Zealand and Thailand were in attendance and the meeting was chaired by Mr. Younghoon David Kim, WEC Vice Chair for Asia Pacific and South Asia. Topics on the Agenda included the **'Energy Poverty Initiative'**, **'Nuclear Energy Development'**, and the **'Efficient and Clean Use of Coal'**. Dr. Rob Whitney, Chair of the New Zealand Energy Federation, gave an update on the post-earthquake situation in Christchurch and Dr. Hideaki Tanaka, Secretary of the Japan Energy Association, summarised the recent developments at the Fukushima nuclear power plant. He thanked WEC members for their on-going messages of solidarity. For further information on the outcomes of the Asia Regional Meeting, and the preceding Thai Green Energy Conference, please contact Masato Komiya, WEC Director, Regional Agenda: komiya@worldenergy.org

Second 'Scenarios 2050' Workshop

The above workshop, held in Bangkok on March 26, was attended by all participants of the WEC Asia Regional Meeting, along with a few selected external experts. The **WEC Scenarios team** was represented by Karl Rose, Director, Policies and Scenarios, and Ayed Qahtani, Senior Project Manager, Scenarios. The themes under consideration included energy access, clean energy development in Asia, the potential for renewable energy supply, mobility and increasing urbanisation, and meeting future demand of developing Asian countries.



Above, L-R: Masato Komiya, Karl Rose, Rob Whitney

Here are some of the messages extracted from the workshop:

- Financing is not an issue in Asia and risks could be adjusted in the financing structure. Many financing funds, in addition to the Asian development Bank and the World Bank are already (and willing to) finance many green energy projects in Asia.
- There are two major concerns for Asia: the future of nuclear in light of the incidents at Fukushima, and the impact of the instability in the MENA region. Both issues have contributed to rising energy prices and volatility. The question to be answered is: 'what substitute could there be for nuclear and oil?'
- The major drivers for energy demand in Asia are expected to be urbanisation, energy intensification and economic growth.
- Most of the energy demand increase will come from China and India. Out of the 10 Asian megacities, 6 are in China, 2 in Japan, 1 in Korea and 1 in India.
- For India, the demand for electricity will increase once consumers are connected to grid and once urbanisation reaches a certain level. Connection to the grid remains a function of income level, corruption, and government willingness. Coal will remain dominant in India.
- For New Zealand and Australia, wind, geothermal, and hydropower will remain pivotal. Australia will remain dependent on coal, as nuclear will be difficult to adopt.
- With a lot of unconventional gas, Korea is expected to have more gas-fired plants. Japanese nuclear and coal are expected to lose ground to gas. Thailand expects more gas-fired plants to come online and for mobility to be largely driven by CNG. In Indonesia, the government has already made gas a priority by building a gas pipeline from Borneo to Java and considering floating gas terminals. It also has plans to expand geothermal in the next 25 years.

For more information please contact Ayed Qahtani (qahtani@worldenergy.org) or Philip Thomas (thomas@worldenergy.org)

Global Partner Update

Two new Partners signed – welcome on board!

Christoph Frei is pleased to announce the signing of two more companies to the Global Partners Programme:

- **Black and Veatch** - a leading global engineering, consulting and construction company founded in 1915, with the mission of *'Building a World of Difference'*. Black and Veatch specialises in infrastructure development in energy, water, telecommunications, federal, management consulting and environmental markets.
- **Electrobras** - the biggest company of the electric power sector in Latin America. Eletrobras is the leader of a system consisting of six subsidiary companies, six distribution companies, the Electric Power Research Center (Eletrobras Cepel) and Eletrobras Participações S.A. (Eletrobras Eletropar) and is also holder of 50% of the capital stock of Itaipu Binacional.

WEC Agenda

We invite our members to attend the following events:

May 23-24; Moscow, Russia

-WEC PGP Knowledge Network Meeting & Workshop
-Contact: nurse@worldenergy.org

April 19; Lima, Peru

-WEC Peru Conference on Energy Efficiency
-Contact: odmq08@gmail.com

May 24; Tehran, Iran

-The 8th International Energy Conference
-Supported by WEC Iran Member Committee
-Contact: iranenergycommittee@moe.org.ir

May 26; Bucharest, Romania

-WEC Romanian National Committee Conference: 'Future Smart Grids for Utilities'
-Contact: ghbalan@cnr-cme.ro

June 2-3; Thessaloniki, Greece

-The 5th South East European Energy Dialogue & WEC-Europe Regional Workshop

-Contact: info@iene.gr

June 17; London, UK

-Bulgarian Energy Day 2011
-Contact: office@wec-bulgaria.org

Sept 14-16: Save the date for the World Energy Leaders' Summit Rio 2011!

For further events and more details, please check the Events page on the WEC website...

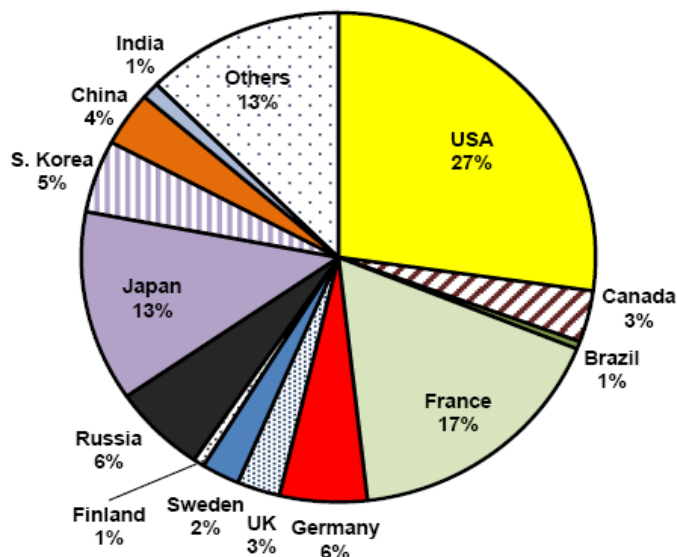
http://www.worldenergy.org/news_events/18.asp

Inside Insight

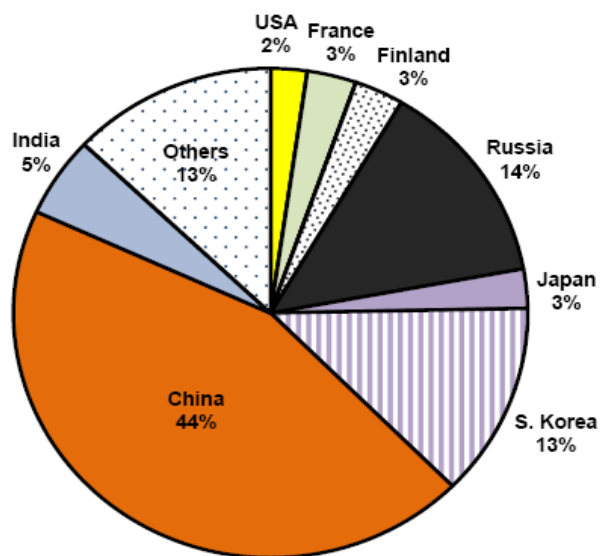
Global nuclear power plants – in operation and under construction

According to the WEC Survey of Energy Resources (2010), 437 nuclear power reactors with a capacity of 370 GW are currently in operation worldwide and a further 51 GW are under construction. After the incidents at Fukushima, the future of global nuclear energy is uncertain. Under the guidance of the Scenarios team, WEC has formed a short-term taskforce to examine the 'future of nuclear' in a discussion paper. Members of the SERT team and external experts are also part of this taskforce.

Reactors in operation 370 GW (1 Jan. 2010)



Reactors under construction 51 GW (1 Jan. 2010)



Source: World Energy Council, 2010 Survey of Energy Resources

Notes: 1. According to the World Nuclear Association, 378 GW reactors are in operation & 64 GW under construction as of 1 March 2011
2. China includes Taiwan

Christoph Frei, Secretary General, World Energy Council

Regency House, 1-4 Warwick Street, London, W1B 5LT, UK

Tel: (+44)2077345996, Fax: (+44)2077345926, Skype: christoph-frei, Twitter: @chwfrei

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