

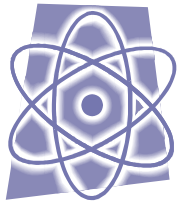


PANEL DISCUSSION: Using Evaluation to Manage Risk in a Changing World

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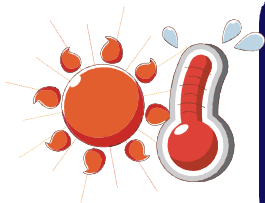
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General situation in Japan



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- 2 of 50 nuclear plants are expected online in summer 2012. Share of electricity by nuclear in 2030 is under discussion.



-18%
(-3%)

- Estimated demand and supply gap without nuclear in Kansai region (Osaka, Kyoto, etc.) in summer 2012.



10%+

- Increase in retail electricity price in Tokyo in 2012. (Residential price is still to be approved)



-25%??
by 2020

- Forced to reconsider CO2 emission reduction strategy.

Energy efficiency

- ◆ Electricity shortages in 2011
 - Peak demand (kW) in Tokyo in the summer: -18%
 - Annual consumption (kWh) in Japan: -5%
 - Norms, burdens, weather, and depression.
- ◆ In the short term...
 - Persistence remains unclear.
- ◆ In the long term...
 - Ambitious scenarios typically assumes maximum efforts, e.g., introduction rate of 100%.
 - How are barriers removed?

How is EE incorporated?

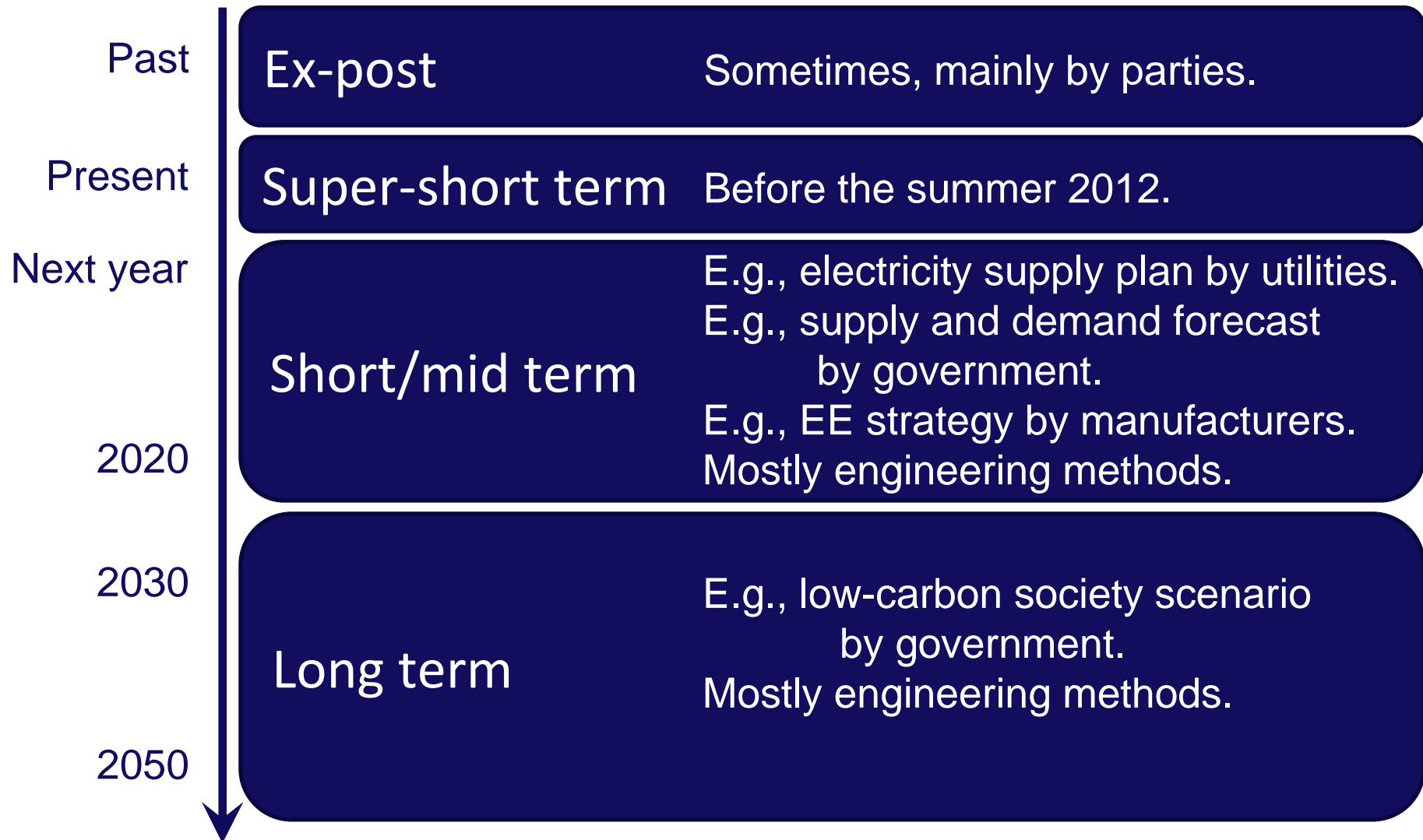
◆ High expectations

- Lessons learned from 2011 crisis.
 - Behavior changes play important roles.
- Tough situation continues in supply side.
 - Capacity, electricity price, and carbon intensity.
- Demand side managements are attracting more attention than ever.

◆ But more to do...

- How to use behavior changes as a reliable resource.
- Demand response are still at an early stage.

Quantitative estimates



Key actors and role of evaluation

