Current Situation & Future Works on Fukushima-Daiichi NPS
Unit 3

Mar 2011  Now
Contaminated Water Management

Impermeable Wall
Robot into Unit 2

Guide pipe
Robot’s route

Scaffold fallen

(30th Jan. 2017)
Japan’s Energy Policy after Fukushima accident
Electricity market reform

- Enabling cross-regional coordination of transmission
- Enhancing market competition under the surveillance
- Full liberalization of retail market
- Legal unbundling
Challenges

More competition

- Creating “Base-load market”
- Merit-order on cross-regional transmission

... and social responsibility

Environment and renewables

- “Capacity mechanism” & “Non-fossil credit market”

Decommissioning

- Accounting rule retrofit & a new fund for 1F decom.
Fast Reactor Development
# Steps of FR Development

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<th>Stage</th>
<th>Experimental reactor</th>
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<td>Establishing tech</td>
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<td>JAEA</td>
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- Joyo (1977~)
- Monju (1994~)
- Demonstration Reactor
- Commercial reactor
- ASTRID Cooperation (2014~)
- JAEA
- JAEA
- JAEA Manufacturer Utilities
- TBD
Main points of the Decision

- Japan will firmly maintain its nuclear fuel cycle policy and R&D of fast reactor (FR)
- The Council on Fast Reactor Development will be established
- New strategy for FR development will be finalized by the end of 2016.
- Reviewing the role of FBR Monju that may lead to possible decommissioning will be finalized by the end of 2016.
Ministerial Meeting for the Nuclear Energy Policy (Dec. 21, 2016)

New strategy for FR development

✓ Nuclear fuel cycle policy: firmly maintained

✓ 4 principles:
  ◆ Domestic resources
  ◆ World's knowledge
  ◆ Cost-efficiency
  ◆ System for the responsibilities

✓ Alternative methods to Monju

✓ Roadmap for FR development → around 2018
Revision of Fast Reactor Development Policies

Ministerial Meeting for the Nuclear Energy Policy (Dec. 21, 2016)

Review of the role of Monju

✓ Technologies and knowledge obtained

✓ Monju will not restart as a reactor

✓ Steady and safe decommissioning

✓ Alternative Functions as:
  ➢ Center for FR development (cold test)
  ➢ Nuclear research
  ➢ HR development
Ministerial Meeting for the Nuclear Energy Policy (Dec. 21, 2016)

**Purpose**

- Working-level, technical discussion toward the formulation of “Strategic Roadmap” (tentative) which identifies the future 10 years works for FR development

**Members**

- METI (ANRE), MEXT, MHI, FEPC (utilities), JAEA

**Latest event**

- March 30th 1st meeting to determine members & topics for review
U.S. – Japan Cooperation
Examples of US-Japan Cooperation

(Industrial Cooperation)
- Manufacturing
- Cooperation in the third country projects
  - Bechtel’s participation to Horizon project in UK
  - Exelon – JAPC cooperation on plant operation

(Decommissioning)
- Fukushima-Daiichi
- Other NPPs (eg. Energy Solution – JAPC cooperation)
- Forums for further cooperation

(G to G Cooperation)
- US-JP Bilateral Commission on Civil Nuclear Cooperation
- R&D cooperation under the Bilateral Committee
  (eg. accident tolerant fuel, seismic analysis, test data exchange...)

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For more optimized decommissioning, First ever international workshop!

WHEN : June 30, 2017
WHERE : Tokyo, JAPAN