

INPRO Dialogue Forum #5

Long-term Prospects for Nuclear Energy in the Post-Fukushima Era

Summary & Findings

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Topics

Topic: Long-term Prospects for Nuclear Energy in the Post-Fukushima Era

- **Sessions**
 - Opening
 - Nuclear Power Deployment in the 21st Century
 - Nuclear Safety and Innovations
 - Stakeholder Involvement and Public Communication
- **Breakout sessions: analysis**
- **Plenary discussion of findings**



Opening

- **Opening Statement** by Mr. Bychkov,
DDG-NE, IAEA

“The Agency’s post-Fukushima projections predict that the accident will slow growth in nuclear power but not reverse it”



- **Congratulatory Address** by Mr. Y.R.Cho,
Vice Minister, MEST, Korea

“Pleasure to host INPRO Dialog Forum No. 5 in Korea, as the 1st Member State”



Participation

- **Participation**
 - 80+ registered participants
 - 33 Member States + 3 international organizations
- Participants from governments, academia, regulators, industry NPP operators, and R&D institutions
- **Strong regional participation**
 - First INPRO Dialogue Forum in Member State
 - Hosted by the Republic of Korea through MEST and KAERI

Findings / Sources

- **Topics addressed in total of some 50 presentations**
- **Three sources for findings and conclusions.**
 - **Source 1: Publications on global prospects**
 - OECD/NEA, WNA, IAEA and academia. Integrated analysis.
 - **Source 2: National statements**
 - From 30 Member States. Nuclear and Non-nuclear.
 - **Source 3: Individual expectations**
 - “Informed judgement”

Findings: National Strategies

- **Analysis of history of nuclear programs shows:**
 - we need to distinguish between:
 - “Near term trends”
 - “Long term developments”
- **Analysis of existing national plans shows:**
 - Planning timeframes vary greatly
 - Some countries have long term strategies in place
 - They cover nuclear power; national R&D; global goals; export goals.
 - Others have only near term plans and policies
 - Timeframes vary from 2020 to 2050

Findings: 21st Century

Topic 1: Nuclear Power Deployment in the 21st Century

- Near term trend: difficult phase for nuclear
 - Some reports on delays or reconsideration. Others continue.
 - Need to address cost, public acceptance, predictability, SF&W, other issues
- Long term development: more positive outlook
 - Global analyses and publications: stable or positive
 - Reason: drivers remain. climate, development, population, resources.
 - But also: risk of current trend to become the long term development
 - National statements: need for nuclear power in national programs
 - Individual expectations for global development: stable or positive

Findings: Stakeholders

Topic 2: Stakeholder Involvement and Public Communication

- Important in all phases of nuclear power program
- Important in context of regulator – operator – government – public interactions
- Important for dealing with emergencies
- For 21st century expectations: relevance of stable public acceptance for growth of nuclear power in the long-term
 - i.e. in addition to public acceptance for the introduction.

Findings: Safety and Innovations

Topic 3: Nuclear Safety and Nuclear Innovations

- **Fukushima lessons learned:**
 - **Emphasis on nuclear safety**
 - Regulatory approach, technical safety, licensing
 - **Emphasis on innovations**
 - As means to **achieve** desired safety
 - Topic for INPRO

Thank you for your attention!

