INPRO Dialog Forum
on
SMR Common User Considerations

Summary from Technology Holders
Top-Level Assessment

• Technology holder countries are strongly supportive of SMRs
  – Nine countries are developing several new SMR designs (Argentina, Canada, China, India, Japan, Republic of Korea, Russian Federation, South Africa, United States)
  – They are making major public and private investments in SMR design, licensing and construction
  – They are actively participating in national and international forums
  – Some TH countries expect to also be TUs
INPRO CUC Activities

• The INPRO Common User Considerations project (2006-08) and the current Dialog Forum on SMR CUC provided unique opportunities
  – To share status of SMR development activities in TH countries
  – To share needs and expectations of TU countries
  – Begin to develop common understanding of a mutually beneficial future

• Continuity of the dialog is essential
Challenges in Moving Forward

• Some of the CUCs seem contradictory, e.g.
  – Turnkey projects vs. local participation
  – Plant standardization vs. flexibility of use

• Some TU desires contradict TH desires, e.g.
  – Full disclosure of plant details vs. protection of proprietary data
  – TU participation vs. factory fabrication by TH
  – Diversity of fuel/parts suppliers vs. assured business

• Some CUCs may be very challenging, e.g.
  – Export of MOX fuel
  – Less than 1 SCRAM/year
The Need for Follow-Up

• Periodic Dialog Forums are needed
  – To update TUs with the status of new SMR design, licensing, and deployment activities
  – To update THs with the progress of TUs in preparing for new nuclear plant orders
  – To mutually review changes in global context for nuclear energy

• Focused meetings are also desirable
  – Large diversity of SMR designs and applications
  – Large diversity of TU timelines and circumstances
Suggested Focus Areas

• SMR economics
  – Total capital cost
  – Unit cost of electricity
  – Sensitivity to factors such as local participation

• Technology maturity and risk
  – Alternatives to operational experience
  – Implications of multiple and/or local suppliers

• Safety
  – Impacts on emergency planning requirements
  – Implications of multi-module plants
Comments from other Technology Holders?