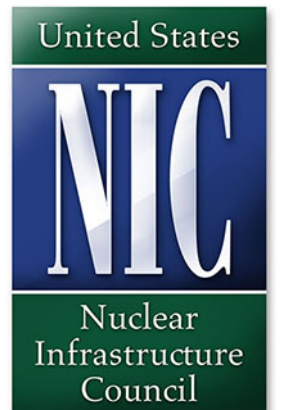


Forging Government and Industry Partnerships- Panel: National Laboratory and International Initiatives: The NP2010 Model

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Objectives

- Disclaimer – My own remarks
- The Advanced Reactor Business Case
- Challenges to Current LWRs in Deregulated States
- Lessons Learned from NP2010
- Implications for Advanced Reactor programs

Advanced Reactors Business Case

- Smaller and very safe additions to the grid and/or Hybrid Energy Systems
- Flexible applications
 - On grid
 - Off Grid/Remote
 - Mining
 - Oil and Gas
 - Hydrogen
 - Desalination
 - Waste Burnup
- High quality Economic benefits
 - Jobs
 - Tax Base
 - Exports
- Carbon free

Challenges to LWRs

- Electricity Market structural flaws
- Solar and Wind Production Tax Credits approved five more years
- Supreme Court Ruling upholding Demand Price Structures
- 80% of new capacity additions are occurring “Behind the Meter”
- Supreme Court Stay of the Carbon Rule Plans

NP2010 Lessons Learned

- The roadmap and first of a kind end points were useful
- A significant cost share was achieved (50/50)
- Utility commitments were obtained for AP1000 construction
- Evolving regulatory requirements were addressed
- Program cost exceeded planned cost
- Still evaluating ITAAC
- Have not yet completed addressing ITAAC in a factory

What We Need for Advanced Reactors

- The US Nuclear Industry needs product offerings that are smaller in Mega-Watt rating to be competitive in deregulated States
- I concur with Jeffrey Merrifield concerning the magnitude of the effort needed
- Consortia supporting major stages of advanced reactors would be of great benefit in an NP2010-like program
- Construction of Prototypes similar to the approach taken by Adm. Rickover and Naval Reactors in the 1950s-1960s would be very practical for determining what designs would work best in the long run.
- In order to fund this, we need a larger amount of US Government Support (The current ratio of Renewable to Nuclear of \$8 to \$1 is unacceptable)

How You Can Help...

Join the Project Management Team....

Questions?

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