

CONTINUING PROGRESS TOWARDS DEPLOYMENT OF SMRs

NRC Regulatory Information Conference

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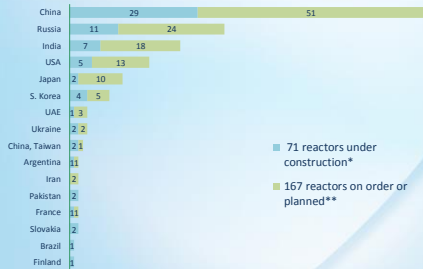


LONG-TERM PROSPECTS FOR NUCLEAR REMAIN STRONG

- Electricity demand is projected to increase 0.7% each year out to 2040
 - U.S. needs 339,000 MW of new capacity by 2040
 - 70,000 MW of fossil capacity is projected to retire by 2020 (40,000 MW is coal)
 - New baseload capacity will be needed
- Nuclear facilities provide nearly two-thirds of carbon-free electricity production in the U.S.



REACTORS UNDER CONSTRUCTION OR PLANNED



Sources: International Atomic Energy Agency and project sponsors for units under construction and World Nuclear Association for units on order or planned.

*Chart includes only countries with units under construction. **Countries planning new units are not all included in the chart. Planned units = Approvals, funding or major commitment in place, mostly expected in operation within 8-10 years.



SMRS – AN IDEAL COMPLEMENT TO LARGE FACILITIES

- Commercial deployment post-2020
- Reduced financial risk
- Suitable for a variety of applications
- Replacement of fossil generation
- Regain U.S. leadership in global nuclear market
 - U.S. technology as a strategic instrument of U.S. foreign policy
 - Global nuclear market could reach \$740 billion over the next 10 years
 - Tens of thousands of jobs will be created



NEI ACTIVITIES

- **NEI SMR Working Group** – Coordinates industry resources and activities to achieve efficiency of NRC and industry resources
- **NEI SMR Licensing Taskforce** – Develops proposals for resolving generic regulatory issues through position papers and public workshops with NRC technical staff
- **NEI SMR Government Affairs Taskforce** – Coordinates industry position and advocacy on government policies (e.g., public-private partnership and trade/export issues)



GENERIC REGULATORY ISSUES

- ✓ NRC Annual Fees
- ✓ Decommissioning Funding
- ✓ Pre-Application Engagement
- ✓ Modularity –Licensing
- ✓ Control Room Staffing
- ✓ Price-Anderson/liability
- ✓ Security
- Source Term (position paper submitted in Dec 2012)
- Emergency Planning Zone (paper expected April 2013)



SUMMARY

- SMRs are important addition to the nation's energy portfolio
- Stable and predictable regulatory process is essential
- Fully fund the DOE SMR cost-share program
- Change needed in trade and export policies
 - U.S. suppliers compete with state-supported entities
 - Reasonable and timely provisions in trade agreements ("123 agreements")
 - Improved export control rule