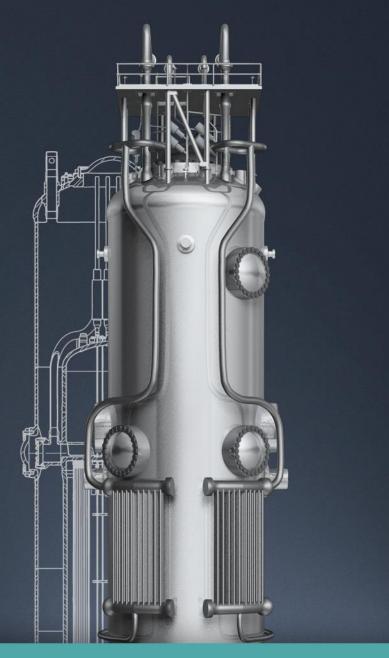


# Safety and Reliability Aspects of Nuclear Energy

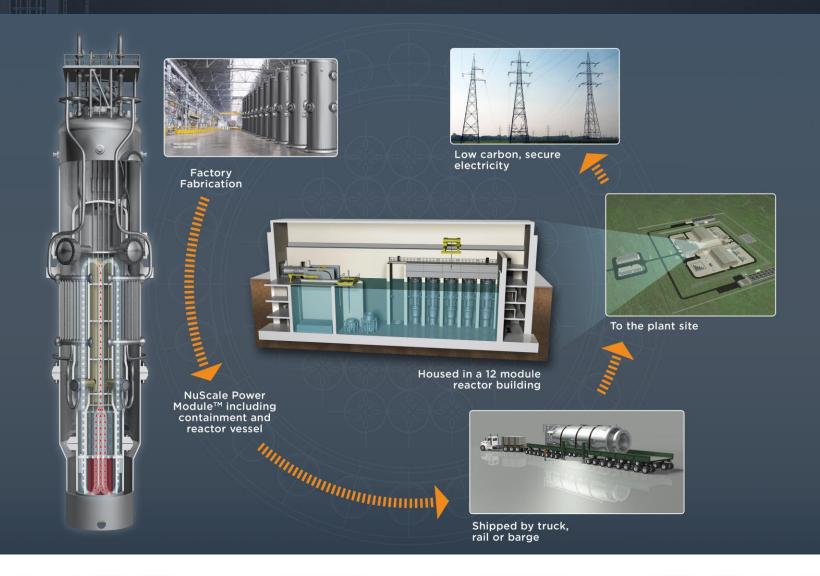
José N. Reyes, Jr. Co-Founder and Chief Technology Officer

IAEA International Ministerial Conference on Nuclear Power in the 21st Century

Abu Dhabi, United Arab Emirates
October 30-November 1, 2017



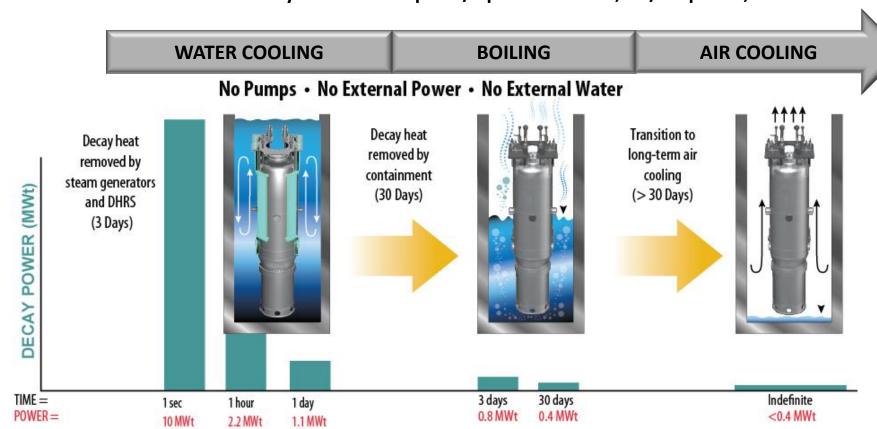
### A New Approach to Construction and Operation





## Enhanced Safety for a Site Boundary EPZ

Stable Long-Term Cooling Under all Conditions
Reactor Core cooled indefinitely without Computer/Operator Action, AC/DC power, or Water Addition



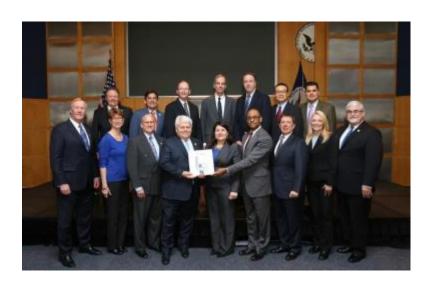
<sup>\*</sup> Based on conservative calculations assuming all 12 modules in simultaneous upset conditions and reduced pool water inventory

Triple Crown of Safety



## Robust and Expeditious Regulatory Process for Advanced Reactors (Lessons Learned)

- DCA accepted for docketing and review in March 2017
- 46 Month Review Process

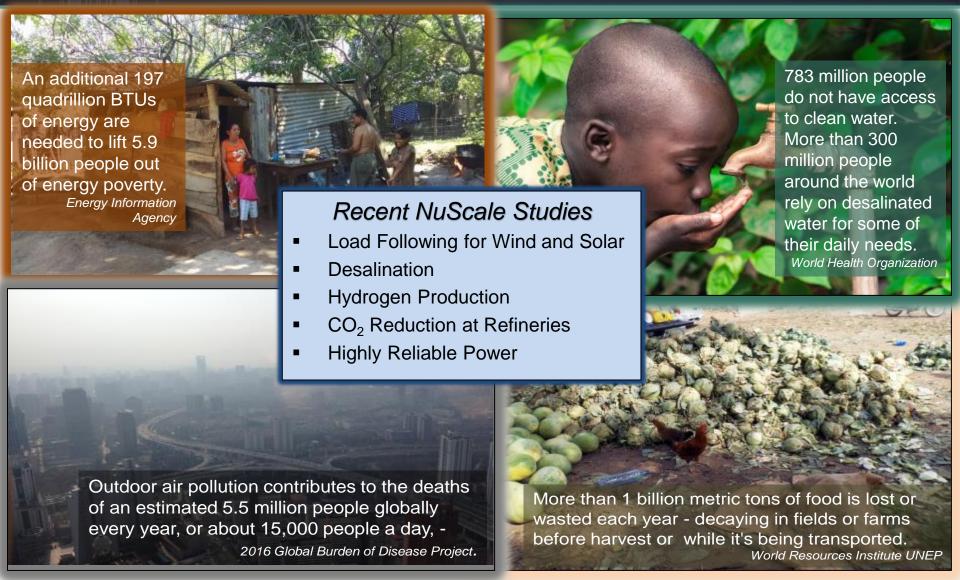






#### New Applications - Expanding the Role of Nuclear Energy

Part of the Trilemma Solution - Environmental Protection, Energy Security and Economic Growth



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