## Industry Perspective on Small Modular Reactors

November 5, 2014

Ricardo (Ric) Pérez

Senior Vice President, Tennessee Valley Authority Chairman, NEI Small Modular Reactor Working Group

#### Three key perspectives:

- ✓ Clear need for the SMR option
- ✓ SMR industrial capabilities available
- ✓ Need for a predictable regulatory path forward



### There is a need for SMRs

- SMR projects target the delivery of reliable, carbon-free electricity to variable and diverse markets
- SMRs may provide replacement power for retiring generation and complement renewables
- SMRs offer potential for improved safety and innovation



NuScale Control Room Simulator



NuScale 1/3-scale test facility

Corvallis, Oregon



# Sustaining development and licensing investment requires a predictable regulatory framework

- SMR development and investments on target to submit NRC applications in 2015 and 2016
- NRC priority/resources needed on key issues before applications are submitted
- Apply lessons learned from new plant projects



**CRDM Prototype Testing**Euclid, Ohio

Full height Integrated Systems
Test Facility
Bedford, Virginia

Images used by permission of Generation mPower LLC



#### Summary

- Utilities want SMR options in the next decade
- Successful large reactor programs provide a regulatory/policy roadmap
- Continue efforts to resolve issues and provide SMR regulatory clarity
  - Emergency planning
  - Application and review standards



*Clinch River Site*Oak Ridge, Tennessee

