

***A practical, scalable, modular ALWR***

B&W Modular Nuclear Energy, LLC

# B&W mPower™ Overview

- Favorable regulatory, geopolitical and market realities
- Broad B&W capabilities, workforce and American infrastructure
- Strong nuclear utility interest, with commitments
- Practical design, aligned to existing nuclear infrastructure
- Robust licensing philosophy, facilitating NRC review

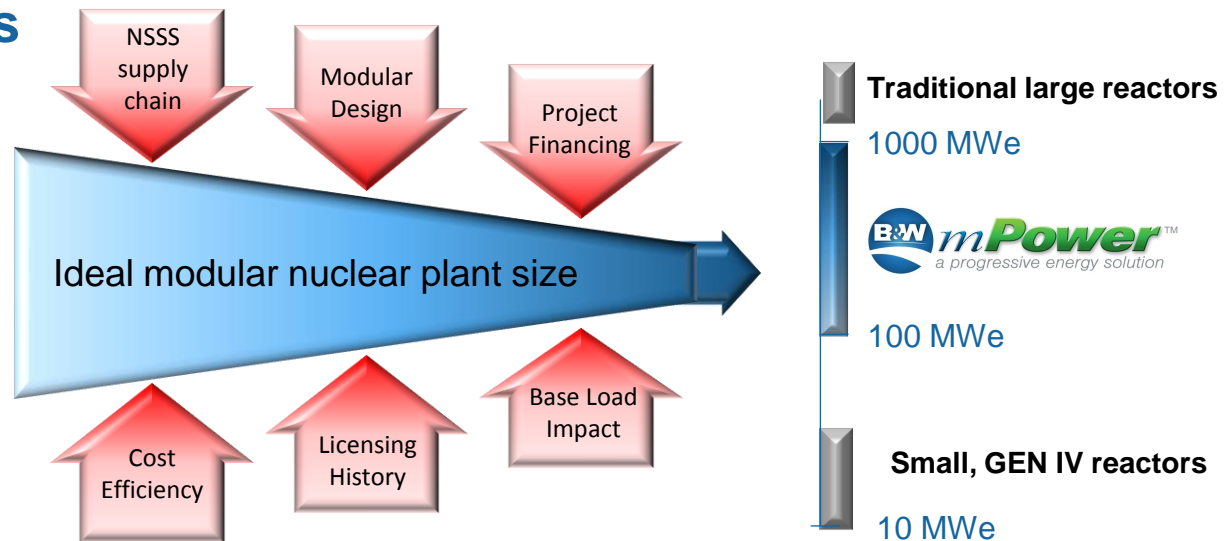


*Complementary, near-term nuclear energy solution*

# A Shifting Nuclear Landscape

## Geopolitical Motivators

- Climate Change legislation
- Energy independence
- Strained supply chain
- Field craft labor availability
- Transmission capacity
- Water and land rights
- Tight capital markets



*One size does not fit all ...*

# Today's Industry Imperatives

- Don't "bet the company" on one project
- Practical, proven technology
- Utilize existing nuclear infrastructure
- "Repower" carbon-intensive facilities
- Incremental power additions





# Vertically Integrated Supply Chain

- Domestic forgings or rolled plate
  - Mt. Vernon, Indiana
  - Barberton, Ohio
  - Cambridge, Ontario, Canada
- Component fabrication
  - Lynchburg, Virginia
- Control rod drive fabrication
  - Euclid, Ohio
- Modular construction capabilities
  - Morgan City, Louisiana

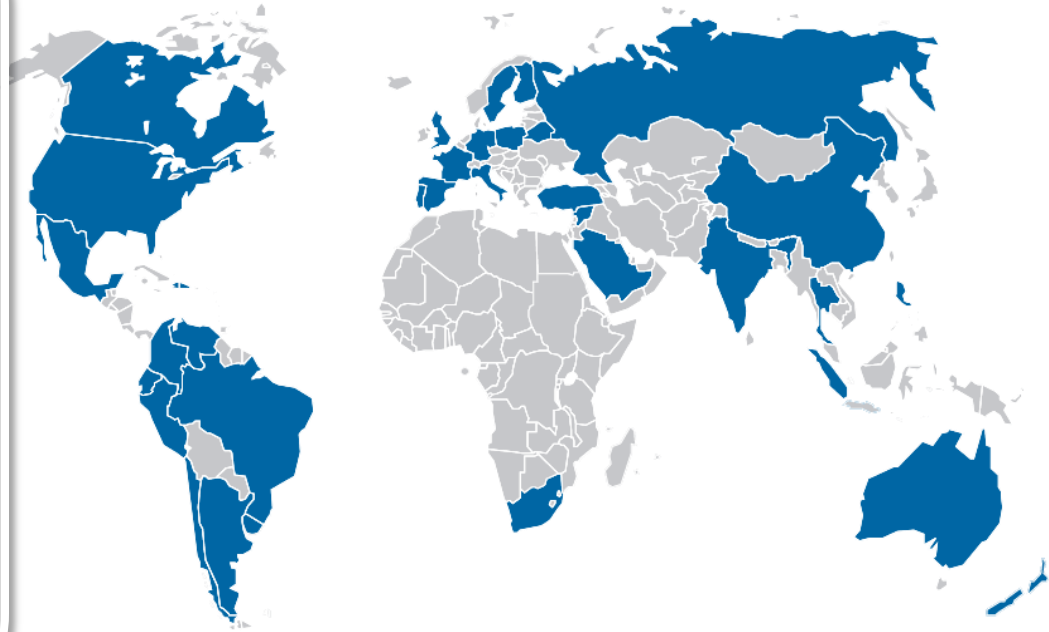


*A North American solution ... manufactured in existing B&W facilities*

# A Global Business

## B&W Nuclear Experience

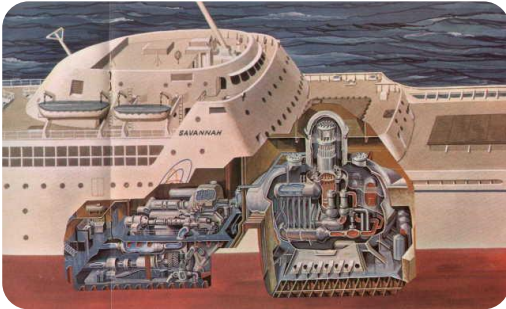
- 50+ years of continuous nuclear engineering and manufacturing
- 12,000 nuclear professionals
- Only U.S. NRC Category 1 license
- Only U.S. company with N-Stamp for NSSS vessel manufacturing
- Fabricated >1,100 NSSS components and pressure vessels
- Manufactured approximately 300 steam generators worldwide
- U.S. nuclear manufacturing in Indiana, Ohio, Virginia



***\$4.7B\* sales. \$6.7B\* backlog. 23,300 employees. 32 countries.***

*\* Approximate equivalent 2008 revenues, including unconsolidated operations*

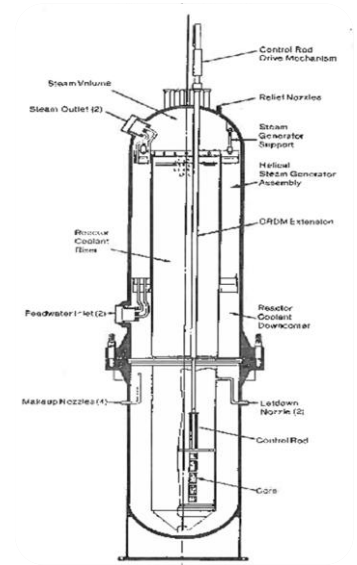
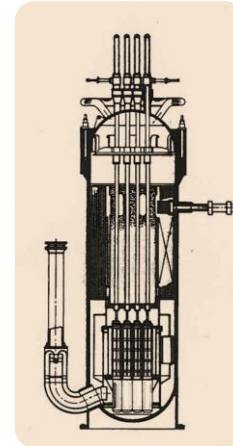
## B&W Early Integral PWRs



*Designed and fabricated NSSS  
NS Savannah*



*Consolidated nuclear steam generator  
NS Otto Hahn*



*SMPP design*

- B&W has evolved the integrated Nuclear Steam Supply System PWR over 50 yrs.
  - **NS Savannah:** Designed in 1950s; small PWR with standard design
  - **NS Otto Hahn:** Designed in 1960s; small integrated steam generator with reactor
  - **SMPP:** Designed in 1980s; small modular plant developed for land-based military electric generation

*More than 40-year legacy of developing integrated NSSS*

# A Generation III++ Reactor

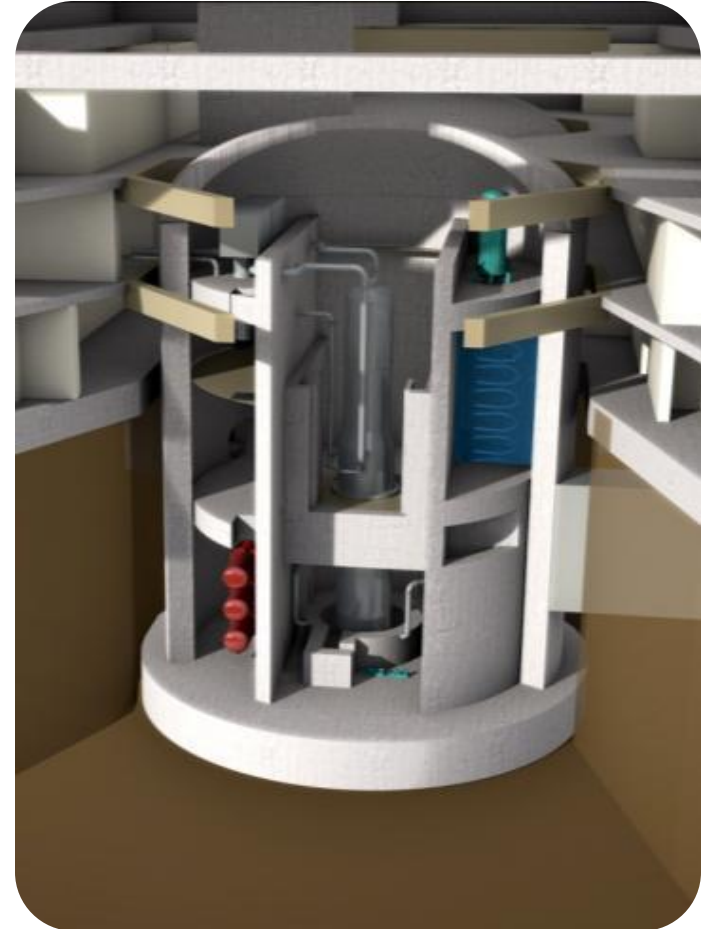
- Integral 125 MWe modular reactor
- Proven Advanced Light Water Reactor technology
- Simple, passively safe design
- Utilizes “industry standard” PWR fuel
- 48+ month operating cycle between refueling
- Built in North America, in B&W factories





## Nuclear Island Features

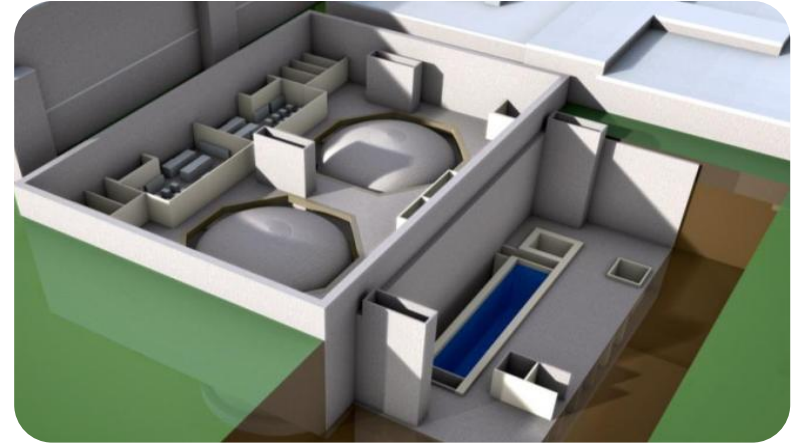
- Dry containment - no suppression pool
- No active core cooling systems
- Passive decay heat removal
- No emergency AC power – batteries only
- Reactor installed after construction
- Spent fuel storage for 60-year plant life



*Simple integrated safety features*

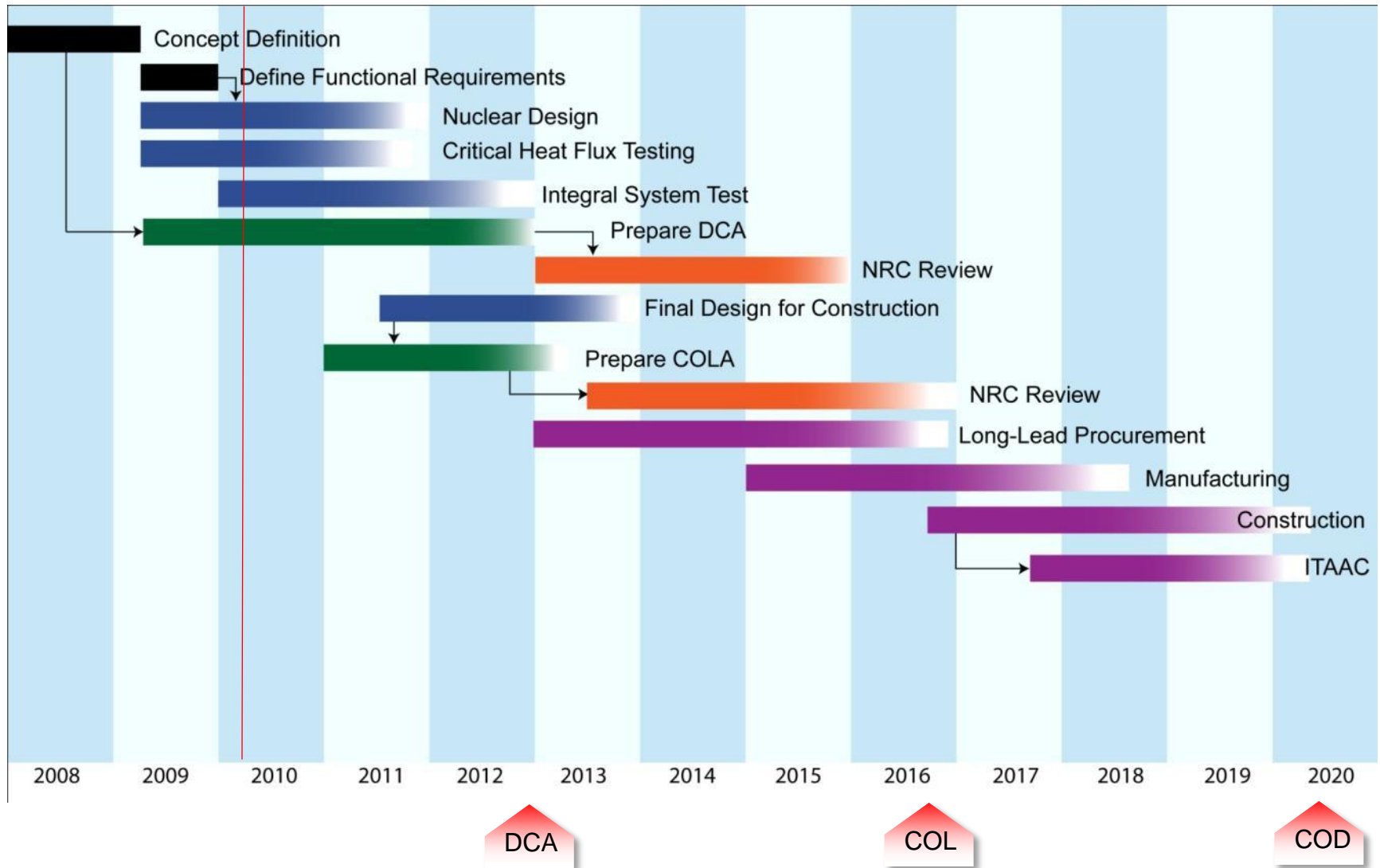
# Scalable Nuclear Plant: Practical, Affordable

- Fully independent reactor modules
- 1-8 modules per plant, 125-1,000 MWe
- Underground containment building
- Low-impact, air-cooled condenser
- Scalable to grid, site, load-growth
- Three-year construction schedule



*Cost certainty ... Schedule certainty ... Capital efficient.*

# Baseline Lead Plant Schedule: Deploy by 2020





# B&W mPower Value Proposition

- Flexible ... sized to local transmission, site, and power requirements
- Affordable ... cost competitive, cost certainty with incremental financing
- Practical ... reduced site work and existing B&W U.S. manufacturing
- Proven ... established licensing with Generation III++ technology

