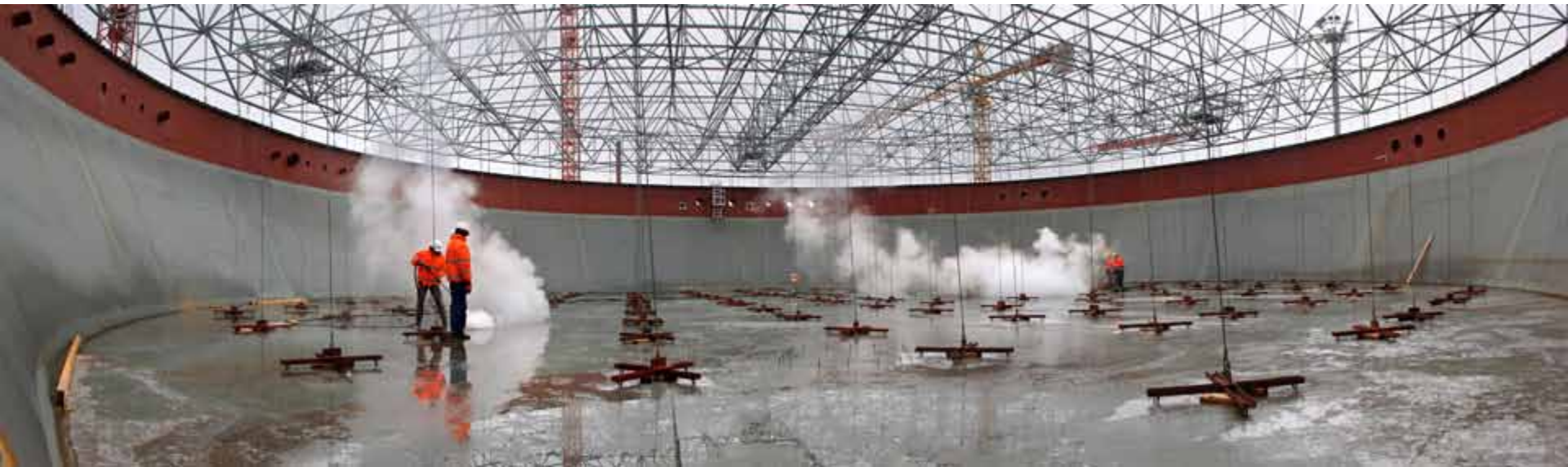


AREVA – Re-Building an American Industry

American Nuclear Energy Revival Briefing Series
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Introduction



- ▶ **AREVA Overview**
- ▶ **The Global Nuclear Renaissance**
- ▶ **What will it take to re-build the U.S. Nuclear Industry?**
- ▶ **AREVA's Contribution to the U.S. Nuclear Renaissance**
- ▶ **Conclusion**

AREVA Overview



AREVA: A Global Industrial Group Focusing on CO₂-Free Energy

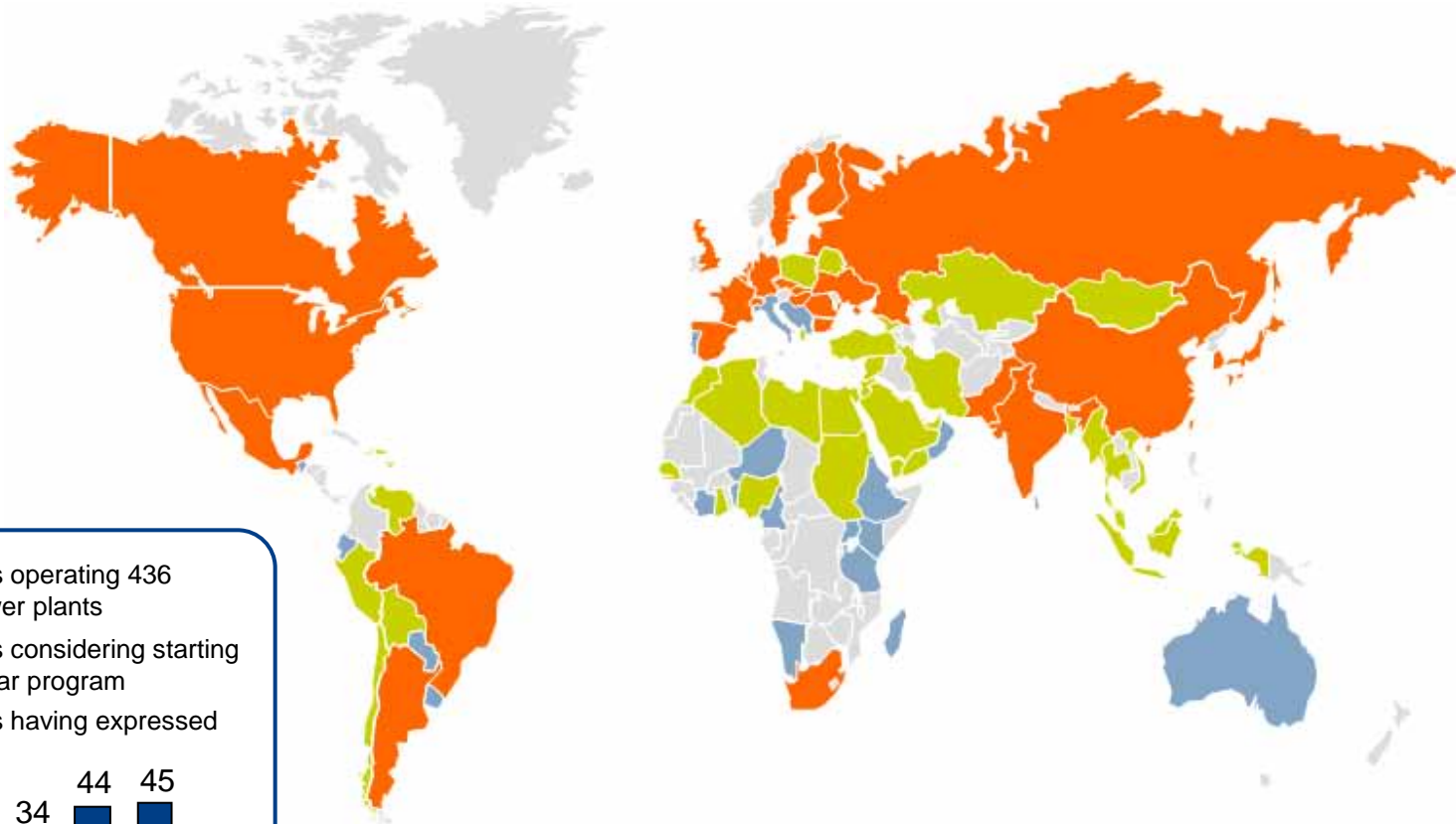


>> AREVA is #1 in nuclear and growing rapidly in renewables

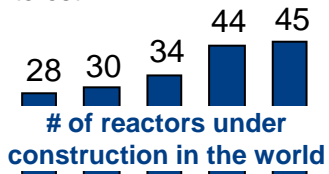
The Global Nuclear Renaissance



Nuclear Energy is Global and a Revival is Underway



- 30 countries operating 436 nuclear power plants
- 43 countries considering starting a civil nuclear program
- 25 countries having expressed interest



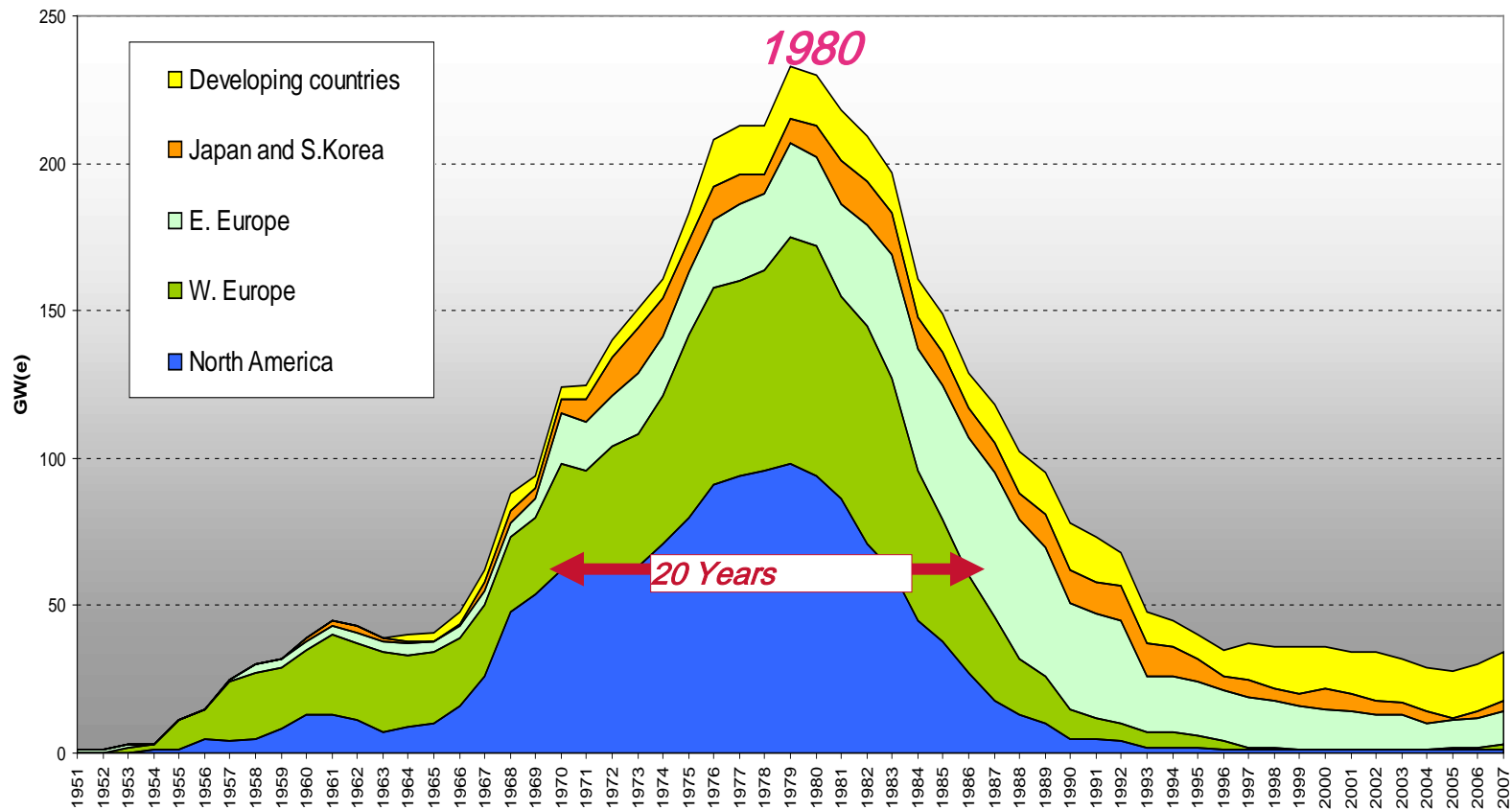
2005 2006 2007 2008 2009



**What will it take to re-build
the U.S. Nuclear Industry?**



Nuclear Manufacturing Must be Rebuilt



source: IAEA 2008

What will it take to Re-build the Nuclear Energy Industry?



- ▶ **Unwavering commitment to SAFETY**
- ▶ **Long-term vision and bi-partisan support**
- ▶ **Initial loan guarantees followed by on-time, on-budget delivery**
- ▶ **Fully developed supply chain**



AREVA's Contribution to the U.S. Nuclear Renaissance



What does AREVA bring to the American Industry?

- ▶ **Technology**
- ▶ **Experience**
- ▶ **Infrastructure**
- ▶ **Job Creation**



More than 20 EPR™ Reactor Projects under Development Worldwide

- Under construction
- Under development
- Prospects

4 + 4 UK

- u 4 units announced by EDF
- u 4 units targeted with E.ON/RWE
- u Further units GDF SUEZ/Iberdrola/SSE
- u Industrial partnerships with Balfour Beatty and Rolls Royce covering engineering, manufacturing and construction

1 FINLAND

- u OLKILUOTO 3 under construction

1 FRANCE

- u FLAMANVILLE 3 under construction

2 CHINA

- u TAISHAN 1&2, 2 units under construction

4 ITALY

- u 4 units announced by EDF and Enel through the JV SNI
- u Further potential units with European utilities that have declared interest in contributing to the Italian nuclear program; no formal set-up yet

2 + 4 INDIA

- u Memorandum of Understanding with NPCIL for 6 EPR™ reactors at the Jaitapur site; offer for 2 EPR™ reactors
- u Strategic alliance with Bharat Forge
- u Framework agreement with TCE Consulting Engineers (Tata) for engineering services
- u Licensing launched

1 + 1 FRANCE

- u Second EPR™ project for EDF, GDF SUEZ, Total, Enel and possibly E.ON in Penly
- u Possible 3rd EPR™ project under discussion

8 + 1 USA

- u Design Certification Application submitted in Dec. 2007 and expected by 2012
- u Detailed Design underway
- u 4 Combined License Applications referenced by NRC
- u Duke Energy is currently evaluating the EPR™ technology for the Piketon, Ohio site

REPUBLIC OF SOUTH AFRICA (RSA)

- u RSA is speaking about a fleet approach (Integrated Resource Plan) with about 10,500MWe by 2018 and 21,000 MWe by 2035
- u Localization will be a key issue

PROSPECTS

- u Brazil, Canada, China, Czech Republic, Finland, Lithuania, Poland, Switzerland, the Netherlands

Olkiluoto 3



Flamanville 3



Taishan 1 & 2

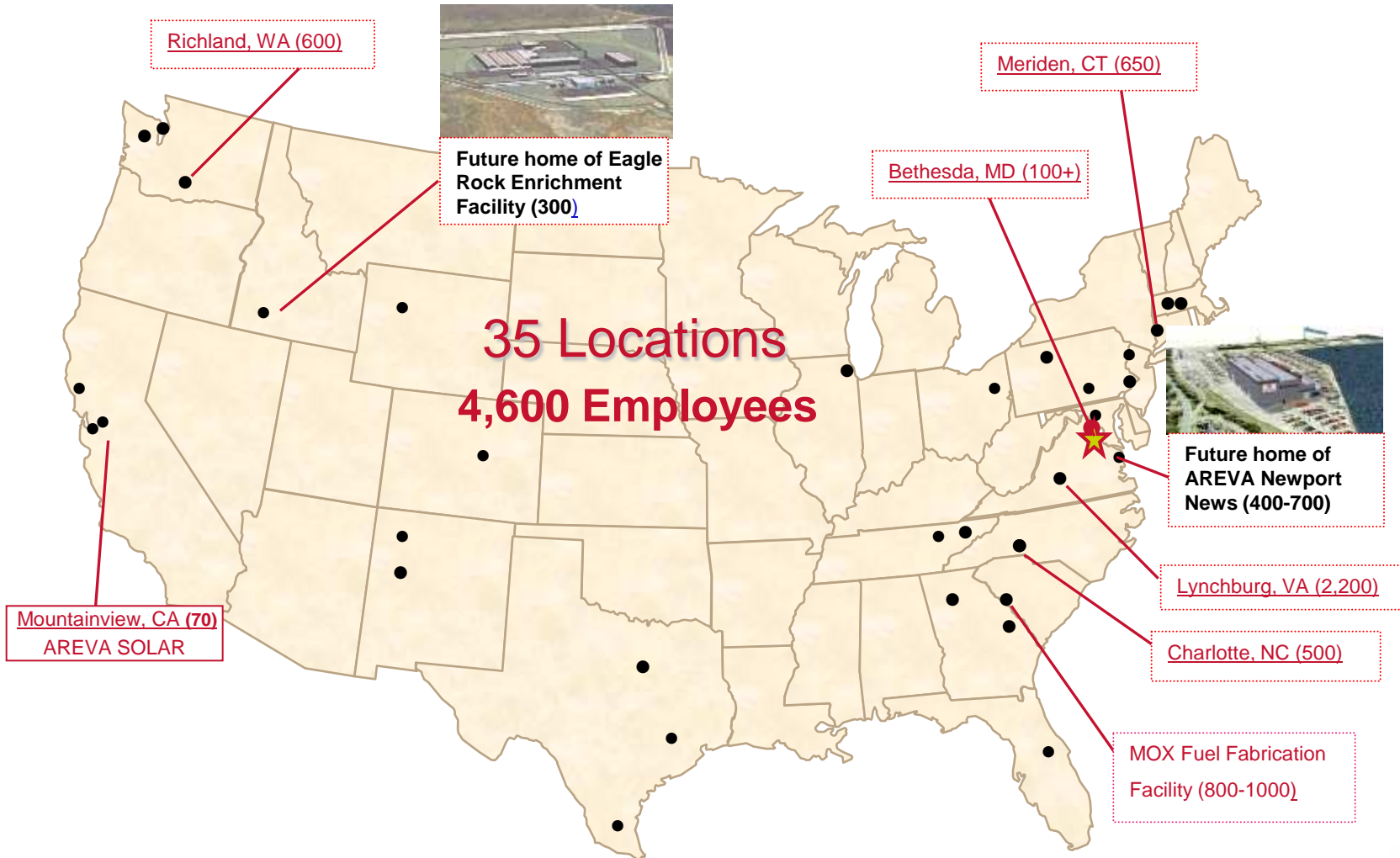


UniStar Calvert Cliffs 3 Project



The first U.S. EPR™ project is moving forward!

AREVA is Present and Growing in the U.S. CO₂-Free Energy Market



Eagle Rock Enrichment Facility

► Project on track to produce SWU in 2014

- u Conditional Loan Guarantee secured - \$2 billion to finance Eagle Rock
- u NRC expected to issue license mid-2011
- u Site Prep to begin 2011 under an NRC approved Limited Work Authorization
- u Plant to start commercial production in 2014
- u Dedicated and experienced team to help fuel our future clean energy economy



AREVA Newport News Heavy Equipment Manufacturing Facility

▶ Newport News Facility

⌋ *Joint venture with Northrop Grumman and AREVA*

- A new U.S.-based manufacturing facility for heavy components for AREVA's EPR™ reactor customers
- Leverages Northrop Grumman Ship Building skilled resources for engineering and field support
- Option to expand to meet global demand for heavy components

▶ \$363 million project cost

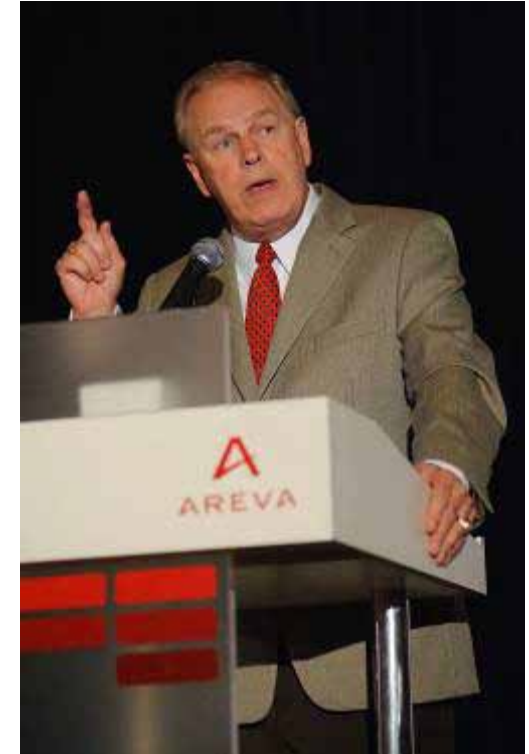
▶ 540 permanent jobs

▶ Status

- ⌋ Groundbreaking July 22, 2009
- ⌋ Begin operations in 2013



AREVA Supplier Days in Maryland and Ohio



>200 attendees from >100 companies at each event

Clean Energy Jobs

| <u>New Jobs</u> | <u>Year 1</u> | <u>Highest Year</u> | |
|-----------------------|-------------------|---------------------|--|
| Direct | 800 | 3,000 | Site construction workers |
| Indirect | 600 | 2,200 | Vendors for equipment and services |
| <u>Induced</u> | <u>700</u> | <u>2,500</u> | Service jobs created in food, hotel, entertainment and other industries |
| Total | 2,100 | 7,700 | |



Building new nuclear power plants creates thousands of high quality jobs and sustainable economic development

Conclusion

**Building today means energy and
economic security tomorrow**