

## Our Global Nuclear Alliance: Delivering Solutions Based On Experience, Reliability, and Innovation

### At a Glance...

Formed by combining GE's and Hitachi's nuclear businesses, our global nuclear alliance is a world-class enterprise with a highly skilled workforce and global infrastructure dedicated to serving the nuclear industry. Our alliance is recognized as the world's foremost developer of boiling water reactors, robust fuel cycle products, and highly valued nuclear plant services. Beginning in the 1950s, we developed breakthrough light water technology with the Boiling Water Reactor (BWR). Since that time, GE has developed nine evolutions of BWR technology including the ABWR, the world's first operational Generation III Class advanced light water design and, most recently, the ESBWR, our latest Generation III+ Class design that combines advanced safety features, improved economics, and new operational efficiencies.

### Services...Experience

As nuclear plants get older and worldwide demand for cleaner energy increases, we offer a wide range of valuable services that can improve performance, increase power output, and extend plant life. We provide the technical leadership and experience for all your operational and expansion requirements.

### Fuel Cycle...Reliability

Our fuel cycle business supplies reliable fuel products and services to utilities all around the globe. We continue to build on our vision of strategically expanding the nuclear fuel cycle by offering our customers an extensive portfolio of dependable and innovative fuel solutions.

### Advanced Reactor Technologies...Innovation

Our global nuclear alliance is committed to delivering advanced performance reactor technologies to our customers. Our combined innovative design expertise and knowledge of advanced modular construction helps provide cost-effective delivery for the next generation of nuclear power plants. We offer customers innovative solutions that make nuclear energy the smart choice for a cleaner and more secure energy future. We are committed to serving the needs of our customers, their communities, and the environment with a balanced portfolio of advanced technologies, trusted services, and global energy experience for the world's growing energy needs.

## Fast facts about our global nuclear alliance

### GE Hitachi Nuclear Energy (GEH)

- President and CEO: Caroline Reda
- Chairman of the Board: Jack Fuller
- GEH Headquarters: Wilmington, NC, USA

### GE Hitachi Nuclear Energy Canada

- President and CEO: Peter Mason
- Headquarters: Peterborough, Canada

### Global Nuclear Fuel

- President and CEO: Kevin Walsh
- Headquarters: Wilmington, NC, USA

Other USA office locations: San Jose, CA; Vallecitos, CA; Canonsburg, PA

- 2500 Employees



92 BWRs were directly from GEH designs or based on GEH licensed designs.

### Hitachi GE Nuclear Energy (HGNE)

- President and CEO: Masaharu Hanyu
- Chairman of the Board: Shozo Saito
- HGNE Headquarters: Hitachi City, Japan
- Other Japan office locations:
  - Tokyo Headquarters in Akihabara, Tokyo
  - Sales offices located in Sendai, Toyama, Nagoya, and Hiroshima
- 1500 Employees



# HITACHI

# General Electric

1950s



1955  
Atomic Power Equipment Department established by GE

1957  
First privately-financed nuclear power reactor provides electricity for commercial use (Vallecitos)

1960s



1960s  
First GE commercial plants (BWR 1-2) constructed and begin operation

1970s



1970s  
GE Generation I commercial plants (BWR 2-4) constructed and start operation

1980s



1980  
GE Generation II commercial plants (BWR 5-6) constructed and start operation; focus on design standardization

1990s



1997  
The NRC approves and signs the ABWR design certification

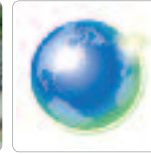
2000s



2000  
Global Nuclear Fuel joint venture formed between GE, Hitachi, and Toshiba



2005  
GE Generation III+ ESBWR design certification filed in U.S.



2006  
GE acquires laser enrichment technology; Global Laser Enrichment (GLE) business formed

# Hitachi



1950s  
First Japanese experimental reactor designed and constructed (JRR-3)



1963  
First Japan test reactor completed (JPDR)

1966  
Nuclear Technical Cooperation and Japan Nuclear Fuel Formation agreements signed for worldwide BWR development



1971  
Nuclear Energy Research Lab established in Ozenji, Kanagawa

1974  
Hitachi finishes construction on its first commercial reactor and begins commercial operation (Shimane-1)



1984 / 1987  
Two 1,100 MW BWR5s developed under Japan's Improvement and Standardization Program begin operation (Fukushima 2-2 in 1984, Fukushima 2-4 in 1987)



1996 / 1997  
The first Generation III ABWR units begin operation (Kashiwazaki Kariwa-6 in 1996, Kashiwazaki Kariwa-7 in 1997)



2000  
Third and fourth ABWR units begin construction in Japan (Hamaoka-5 in 2000, Shika-2 in 2001)



2005 / 2006  
Hamaoka-5 and Shika-2 begin commercial operation in 2005 and 2006 respectively



2005  
HGNE begins construction on Japan's fifth ABWR unit (Shimane-3)  
  
The sixth ABWR, the Ohma Nuclear Power Station, begins construction in 2008



# HITACHI

2007  
GE and Hitachi form Global Nuclear Alliance



# HITACHI

For more information, contact your local GE representative or visit us at [www.ge-energy.com/nuclear](http://www.ge-energy.com/nuclear)