framatome

R3 INPP – Conceptual Design and EIAR Development of D&D Unit 1&2 Reactor R3 and RWS storage Lithuania

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Framatome at a glance

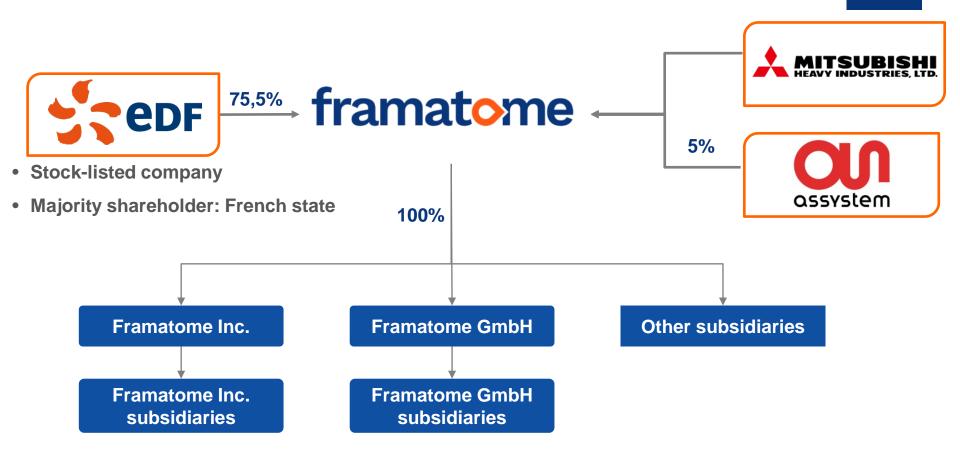
For 60 years, Framatome's teams have been involved in developing safe and competitive nuclear power worldwide by:

- designing nuclear power plants,
- supplying nuclear steam supply systems,
- designing and manufacturing components and fuel assemblies,
- integrating automation systems,
- and servicing all types of nuclear reactors.

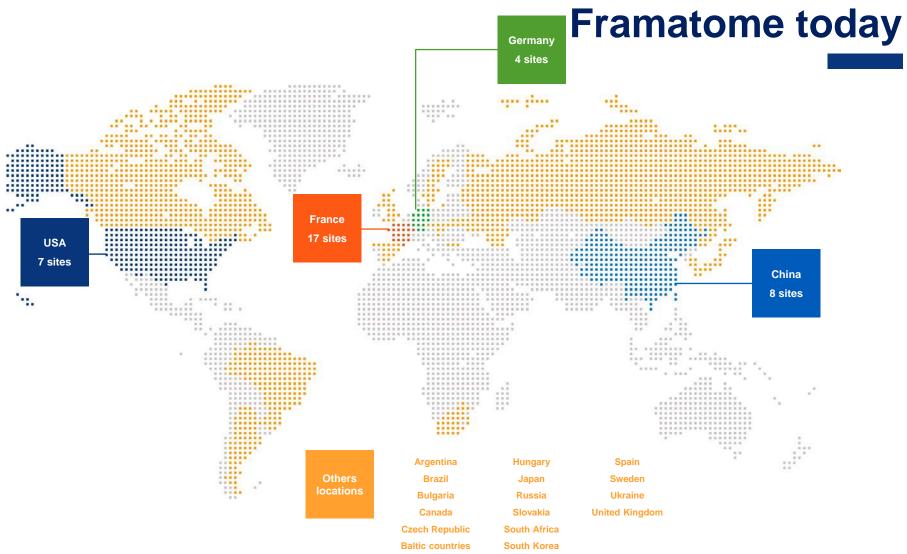
- Original Equipment Manufacturer of 92 nuclear power plants
- > 14,000 employees serving more than 250 reactors worldwide and
- → generating a turnover of €3.3 billion in 2017



Framatome today







14 000 employees working on more than 250 reactors worldwide at 58 locations in 18 countries

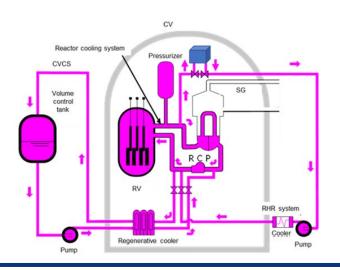


Full System Decontamination

Full System Decontamination (FSD) is reducing doses, saving time, and enhancing recyclability of wastes

FSD is an in-situ chemical decontamination enabling:

- Dose reduction,
- Flexibility in D&D planning
- Simpler D&D equipment,
- Reducing waste casks count
- Faster scheduling of D&D activities





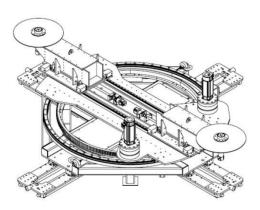
Country	Technology	Year
Belgium	PWR/WH	1991
Germany	BWR/GE-AEG	1993
Germany	PHWR/AREVA	1995
Germany	BWR/GE-AEG	1998
USA	PWR/WH	1998
Germany	PWR/AREVA	2004
Germany	PWR/AREVA	2007
Sweden	BWR/ABB	2008
Germany	PWR/AREVA	2012
Germany	PWR/AREVA	2013
Germany	BWR/AREVA	2015
Germany	PWR/AREVA	2016
Germany	BWR/AREVA	2016
Japan	PWR/MHI	2017
	Belgium Germany Germany USA Germany Sweden Germany Germany Germany Germany Germany	Belgium PWR/WH Germany BWR/GE-AEG Germany PHWR/AREVA Germany BWR/GE-AEG USA PWR/WH Germany PWR/AREVA Sweden BWR/ABB Germany PWR/AREVA Germany PWR/AREVA Germany PWR/AREVA Germany PWR/AREVA Germany PWR/AREVA Germany BWR/AREVA Germany BWR/AREVA Germany PWR/AREVA

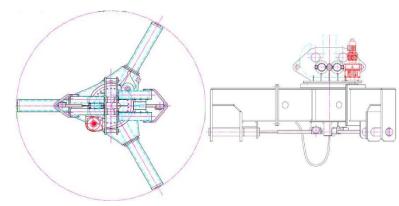
Reactor	Country	Technology	Year
FR2	Germany	PWR/AREVA	1986
Gundremmingen A	Germany	BWR/GE	1989
Rheinsberg	Germany	VVER	1994
Lingen	Germany	BWR/GE	2001
Caorso	Italy	BWR/GE	2004
Trino	Italy	PWR/WH	2004
Chooz A	France	PWR/WH	2012



Framatome Tooling







Platform for horizontal cut

Lifting device for RPV rings



Tooling easily adaptable to different tasks

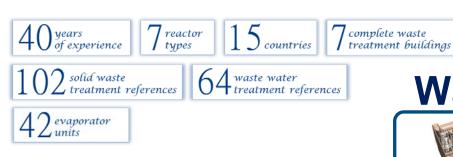


Remote controlling allowing to reduce the dose for the personal



Stability optimized to reduce vibration by cutting and avoid time lost











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