

Presentation to Assembly of Contributors

December 2017



Ignalina NPP

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General Director



13/12/2017 10:00



Decommissioning of Ignalina NPP is
cofinanced by the European Union

Ignalina International Decommissioning Support Fund
EBRD, London, December 2017

Presentation content



Key IIDSF waste-route projects

Other waste-route projects

Plant dismantling



Key IIDSF waste-route projects

Major milestones in all four IIDSF projects



**Interim Spent Fuel
Storage Facility**
Project B1



**Solid Waste (SW)
Retrieval Facility**
Project B2



**SW Management
and Storage Facility**
Project B3/4



Near Surface Repository
Project B25-1



Interim Spent Fuel Storage Facility (B1)

Non-stop progress



→ **37th** new cask in the new storage facility as at 18 of December (3,337 spent fuel assemblies).

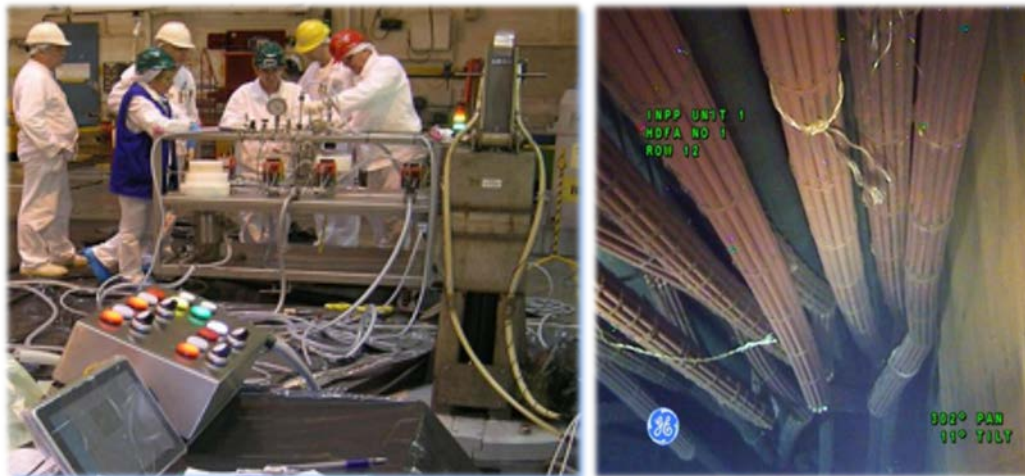


→ Casks delivery from producer – according to the schedule

(52 from 190 casks delivered to date)

→ Industrial operation since May 2017- according to the schedule

Interim Spent Fuel Storage Facility (B1)



Next steps:

- Complete leaking fuel classification

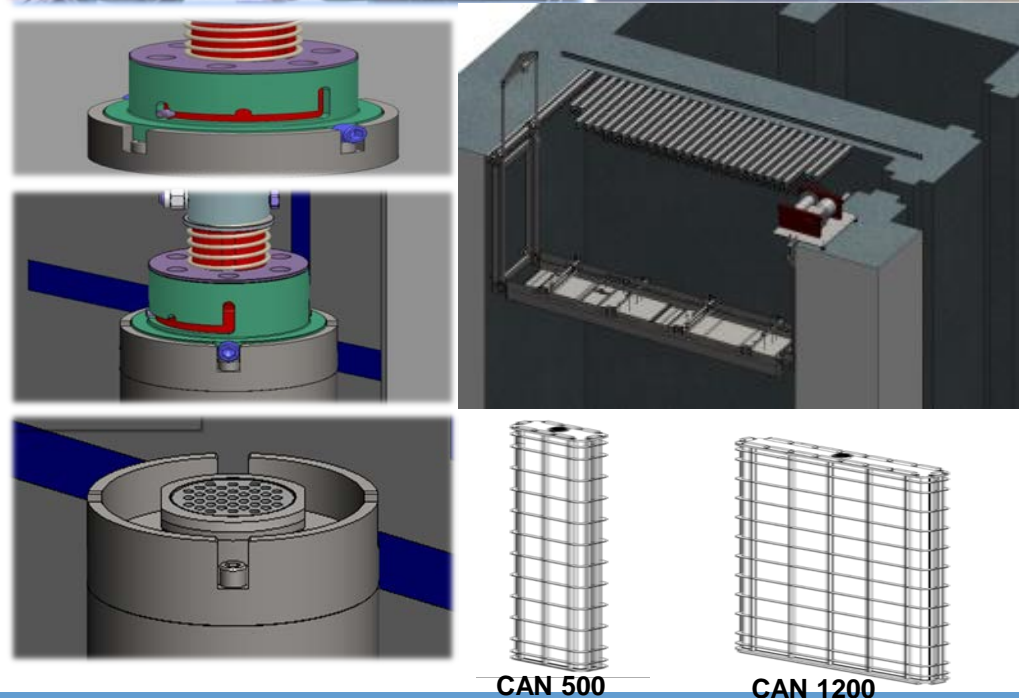
Complete classification in Unit 2 –
June, 2018 final number of
casks



- Heavily-Damaged-Fuel Handling System

- Handling system (+CANs):
- Manufacturing, testing & training
→ **Nov. 2018**
- Delivery → **IQ 2019**

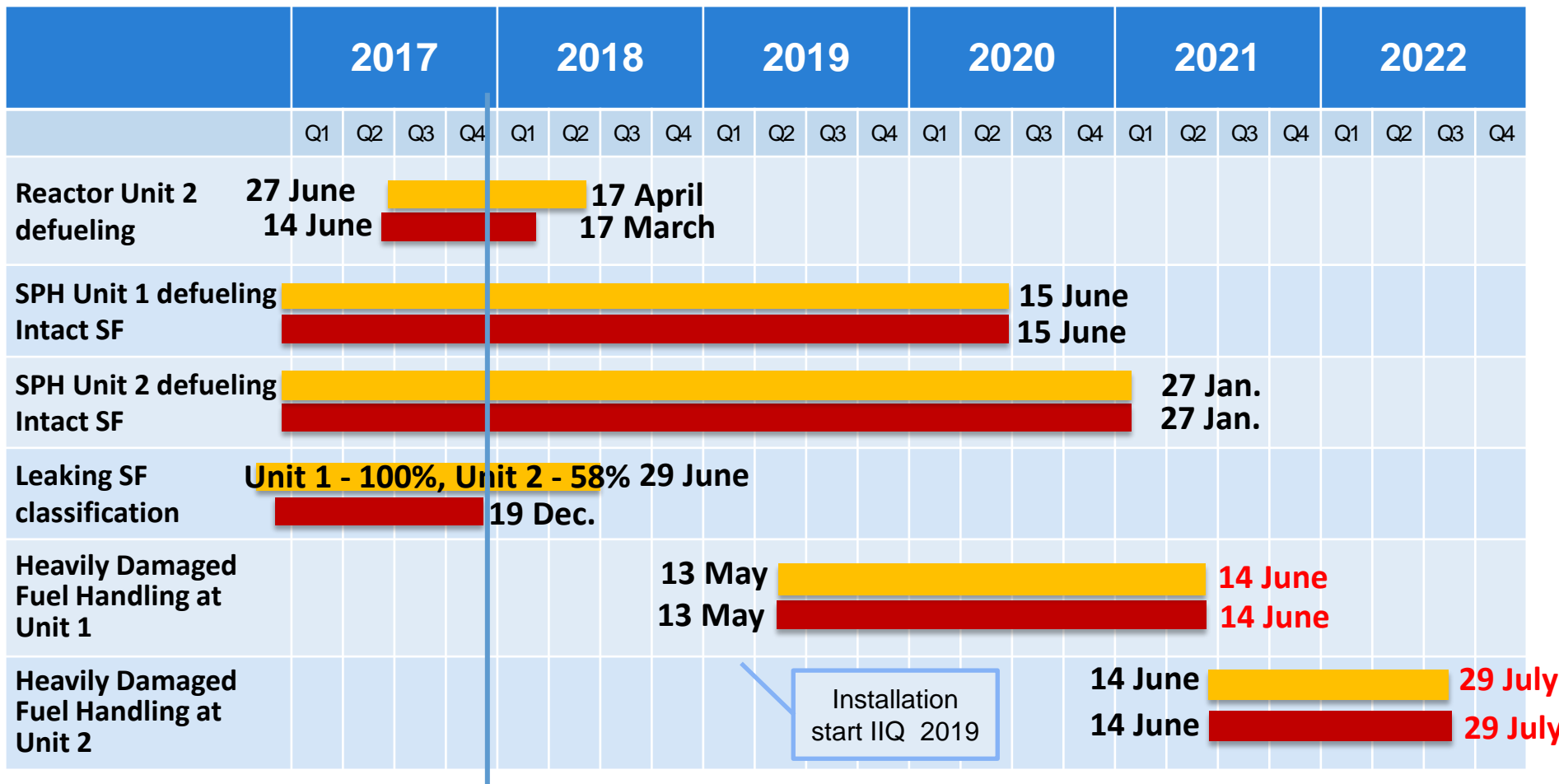
Storage equipment → **under discussion for the safe and the most economical solution**



Progress in spent fuel management



Update of Units defueling schedule





Interim Spent Fuel Storage Facility (B1)

Status at 18 December 2017

Unit 1+2 SPH: 11,929 FA



“Old” DSFSF: 6,016 FA



55%

28%

2%

15%



Unit 2 core: 364 FA



“New” ISFSF: 3,337 FA

Interim Spent Fuel Storage Facility (B1)



Issues to be resolved for successful completion B1 project, timely defueling INPP Units, effective post-defueling stage

- (1) B1 FIHC modification at ISFSF
- (2) Increased number of damaged / leaking fuel
- (3) Arbitration of Contractors claim for additional costs associated with the design of the Damaged Fuel Handling System

Solid Waste (SW) Retrieval Facility (B2)



Recent progress:

- Start of hot-trials **9 June**
- Finish of hot-trials RU1 **25 August, 2017**
- Operational Acceptance RU1 granted **7 December, 2017**
- Continue hot-trials RU2, RU3

Next steps:

- **Proceed continuous hot trials B2 RU1 with additional waste volume 250 m3 before obtaining a permit for industrial operation – agreed with VATESI**
- Approval of FSAR – **June, 2018**
- Start of industrial operation - **November, 2018**



SW Management & Storage Facility (B3/4)



Recent progress:

- Construction completion **5 October**
- VATESI grant Operational License **12 October**
- Start of Hot-trials **13 October**



Next steps:

- Proceed continuous hot trials before obtaining a permit for industrial operation – to be agreed with VATESI
- Start of industrial operation **November, 2018**



Challenges

- Interface assurance and dealing with big volume & complexity of newly designed / assembled machinery & equipment

Near Surface Repository (B25)



Recent progress:

- Construction Permission **22 May**
- License to construct and operate **22 November**

Next steps:

- CPMA approval of tech. spec.: **March 2018**
- Organization of tenders for construction and other services related to NSR (FIDIC and technical supervision, design supervision contracts)

Aim is to have construction contract in place via CPMA by December 2018



IIDSF Project Management Unit

Engineering and commercial consultants

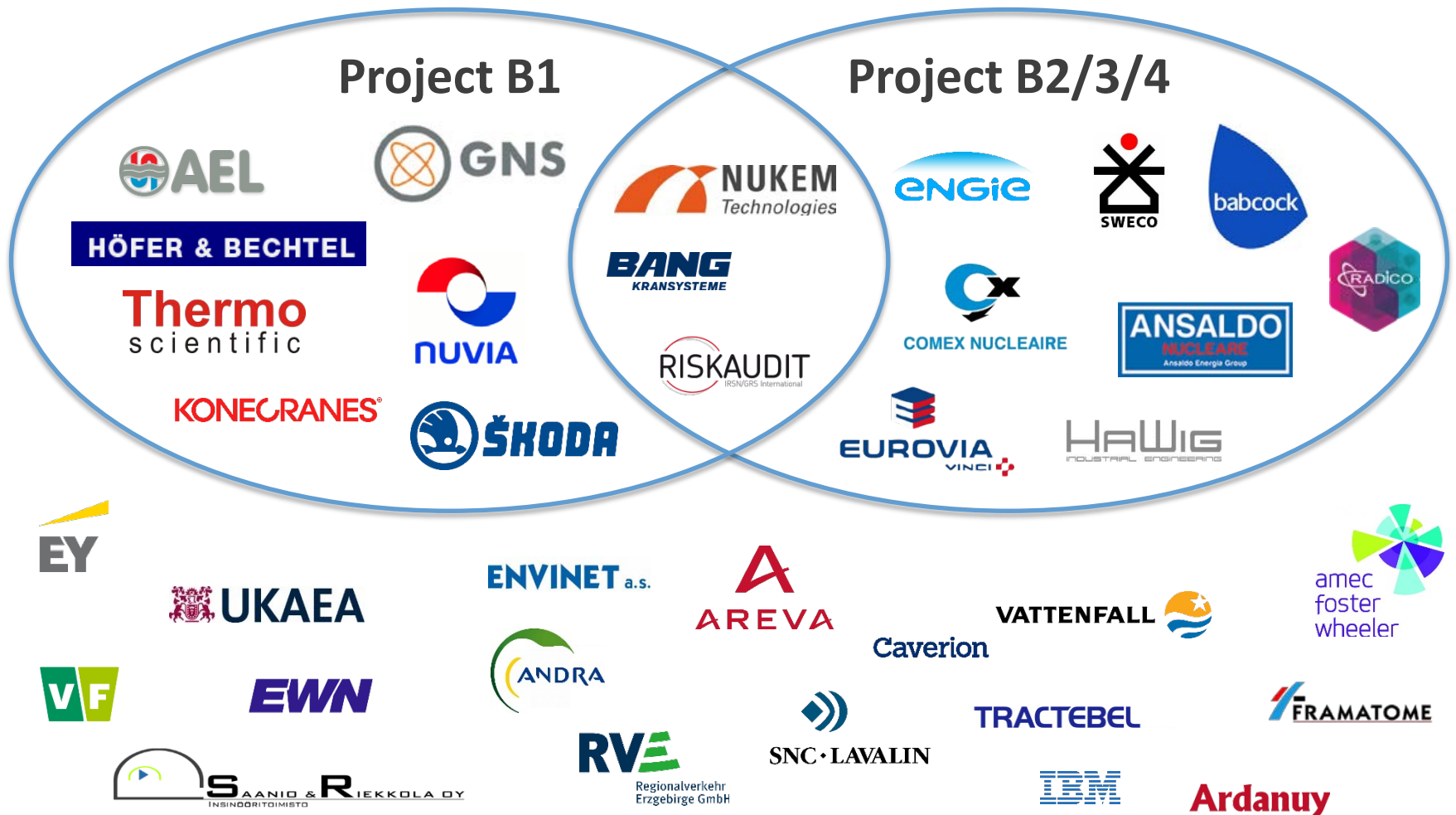
- Contract for 2018 – only with Wood Group (former NNC (UK))
- Currently 2 consultants + home support (if / when needed)
- Reduction number of consultants in 2018 – on monthly evaluation bases
- IIDSF-financed projects: completed / start of industrial operation
- INPP final takeover of remaining projects management scope



TRACTEBEL



With gratitude to the many international partners of who have assisted the safe decommissioning Ignalina NPP including...

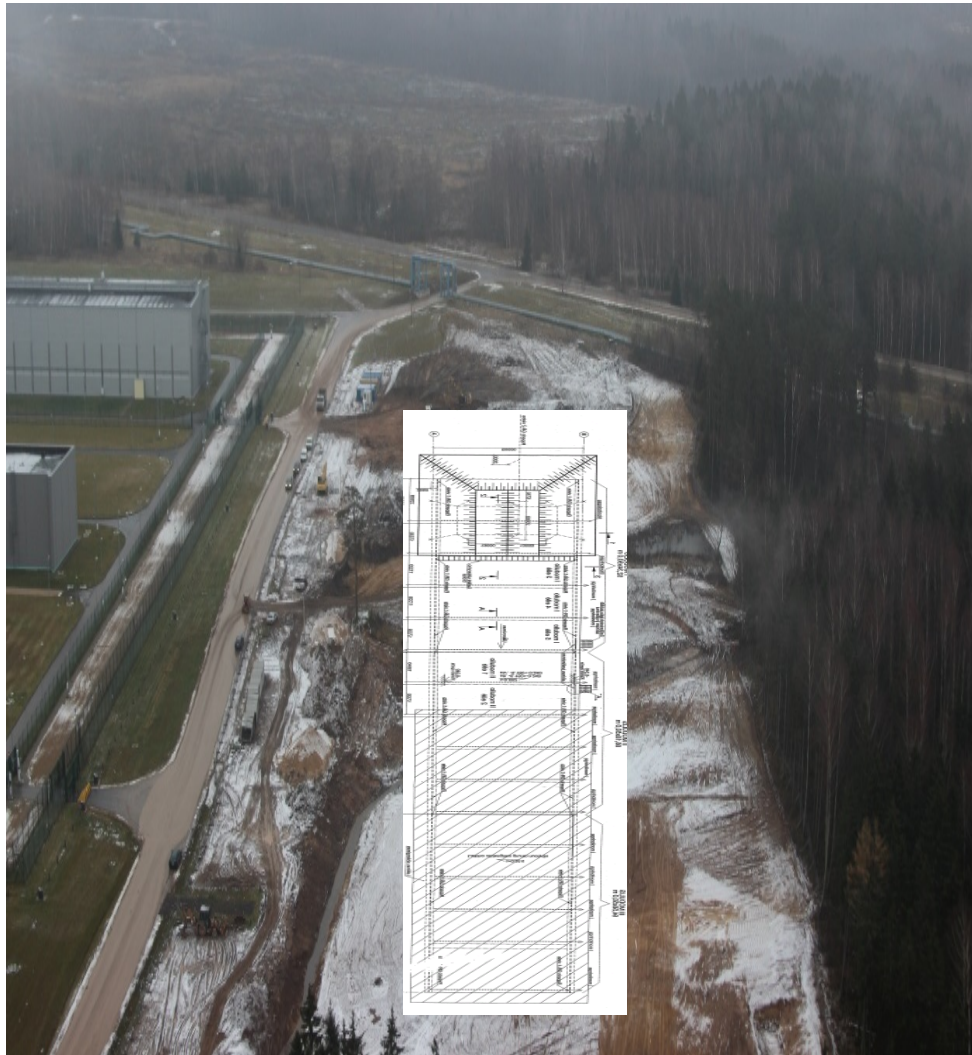




Other waste-route projects

Landfill Facility

Project B19-2



Recent progress:

- **June, 2017** - Contract signed
- **September, 2017** – site takeover

Next steps:

- Construction completion & first campaign – **February 2019**



Bituminised Waste Repository (Design)

Project B20

Project purpose:

- Design for conversion of existing storage facility into a repository



Recent progress:

- Tech. spec. for EIA, SAR and Technical Design contract agreed by VATESI (6 Feb. 2017)
- Detailed licensing strategy agreed with VATESI (22 Feb. 2017)

Next Steps:

- Agree procurement document set with CPMA
- Tender announcement – Jan. 2018
- Target date for contract signature Dec. 2018

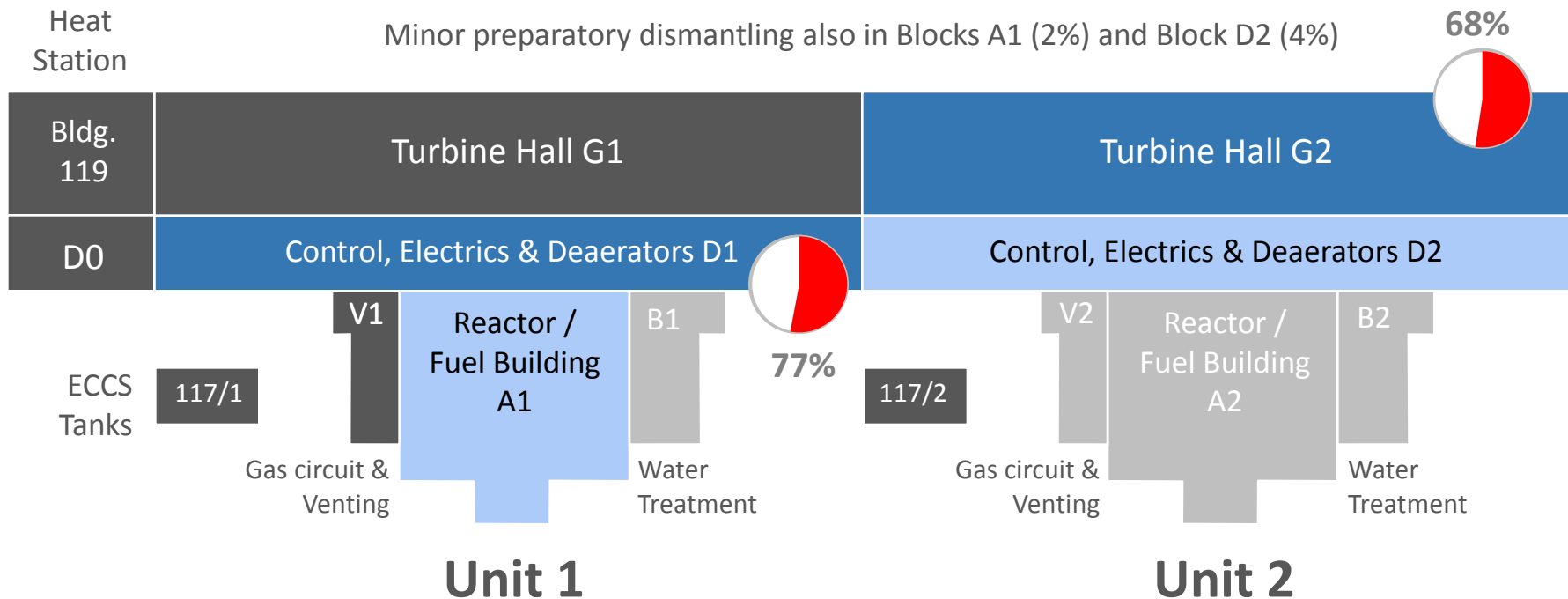
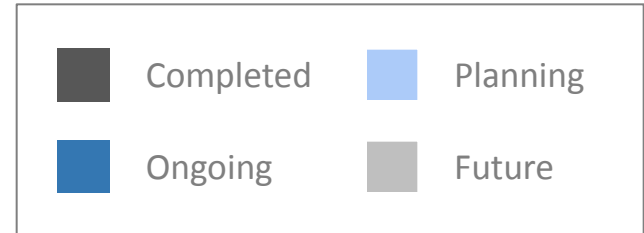


Plant dismantling



Progress of in-unit dismantling

X 1000 tons	2010-to date (in all)	2017 (plan)	2017 (to date)	2010-2038 (in all)
Dismantled	38,2	6.7	6,5	153.0
Free-released	32,0	4.6	4,6	112.5

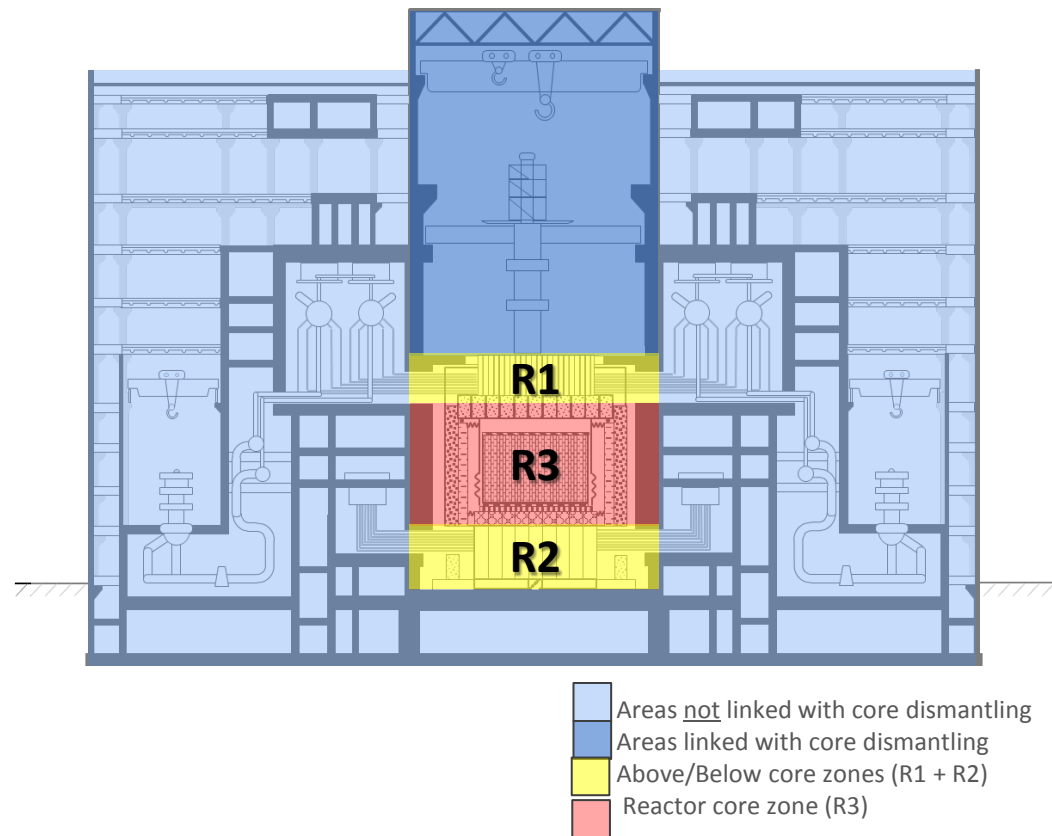


Dismantling design



Reactor Blocks A1/A2

- Project divided into 2 projects:
 - I. Above/Below core zones (R1 + R2):
 - I. Preparation of documents for VATESI
 - II. Minor contract for cutting technique
 - II. Reactor core zone (R3)
 - I. Discussing strategy with CPMA



Reactor R3 Area Dismantling and Graphite Storage

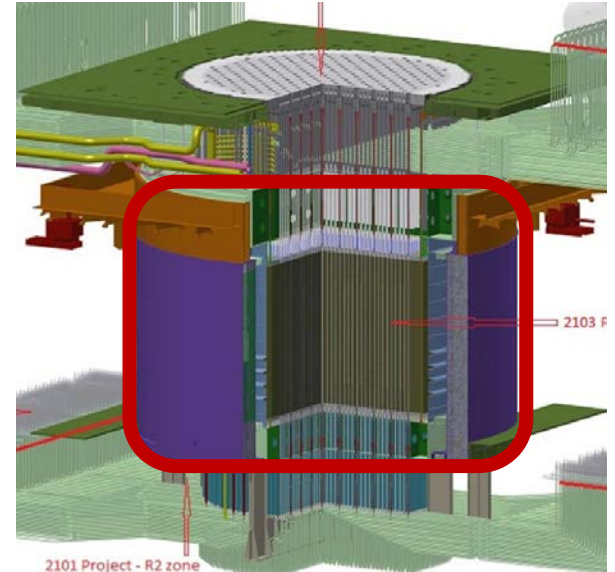


Recent progress:

- Preparation FICHE and Technical Specification for Reactor D&D and RWS optioneering and EIA Report ongoing
- Intermediate FISHE discussions with CPMA - **September 2017**
- **Main tasks for Supplier :**
 - Optioneering analysis
 - Collect information for analysis of dismantling, waste management and placement of irradiated graphite for storage
 - Support during of the Optioneering Report licensing process
 - Preparation of EIAR & support during authorisation
- Tubes cutter at different depths inside the upper metal structure “E” - delivered, testing in progress

Next steps:

- Completion of TS and FICHE – II **2018**
- Tender announcement– IV **2018**





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