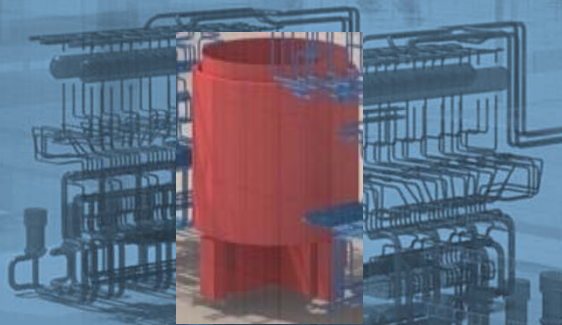


18<sup>th</sup> October 2018



Workshop  
“Experience of Reactors dismantling”  
Ignalina NPP Decommissioning  
Programme



Decommissioning of Ignalina NPP is  
co-financed by the European Union

Workshop  
“Experience of Reactors dismantling”  
October – November 2018, Visaginas

# Ignalina NPP operation and closure

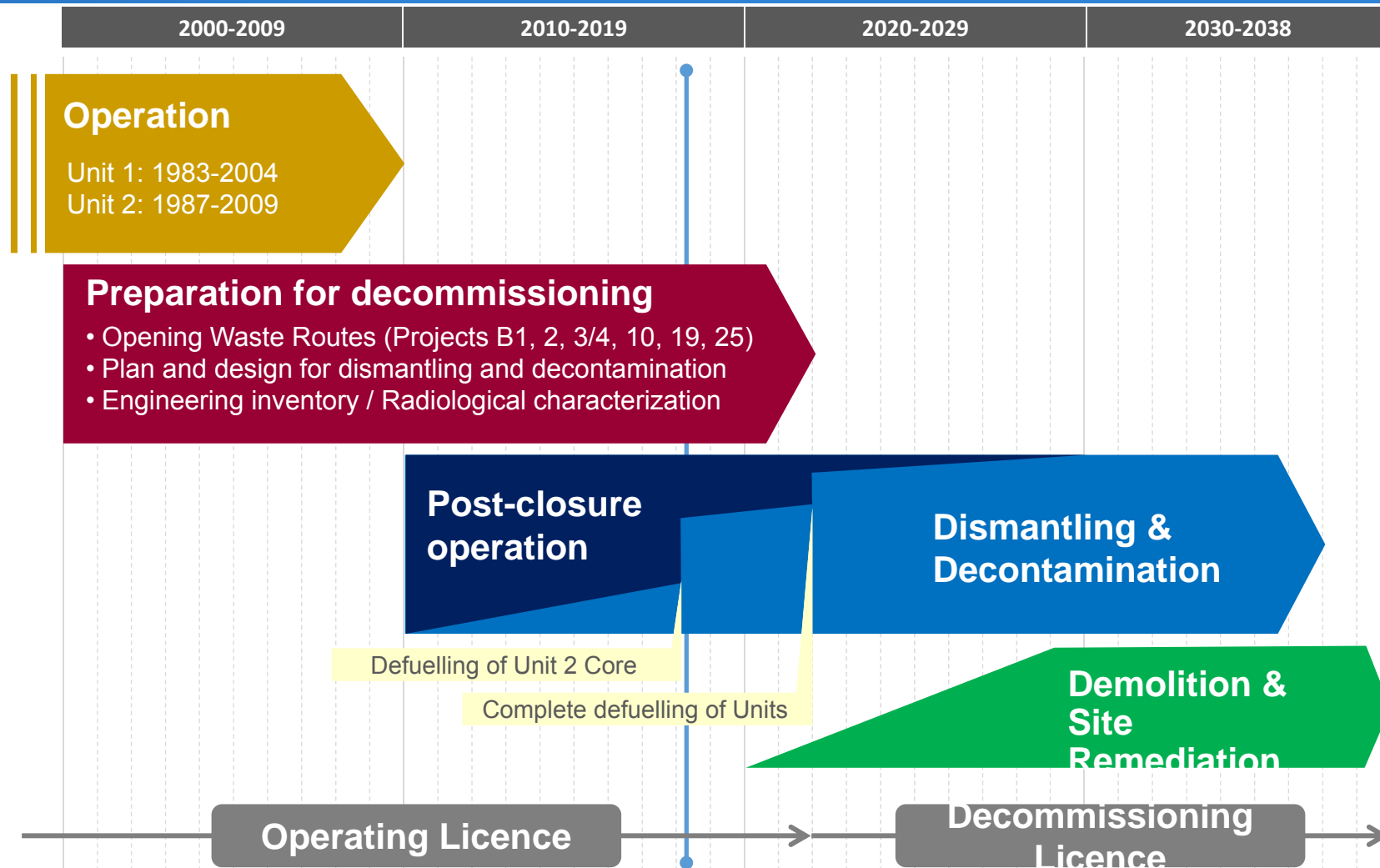


- ❖ **Type:** Twin RBMK-1500 water-cooled, graphite-moderated, channel-type power reactors
- ❖ **Design life:** 30 years
- ❖ **Years in service:**
  - Unit 1: Dec 1983 to Dec 2004
  - Unit 2: Aug 1987 to Dec 2009
- ❖ **Capacity:** Intended to supply NW region of former USSR (not Lithuania). One unit could produce 80% of Lithuanian electricity needs
- ❖ **Location:** Far north-east corner of Lithuania. Immediately bordering Latvia and Belarus. Approx. 2½ hours drive from Vilnius
- ❖ **Staffing:** Designed and staffed for fully autonomous operation. Initial 5000+ staff reduced to 4600 by early 2000s. Currently is about 2000

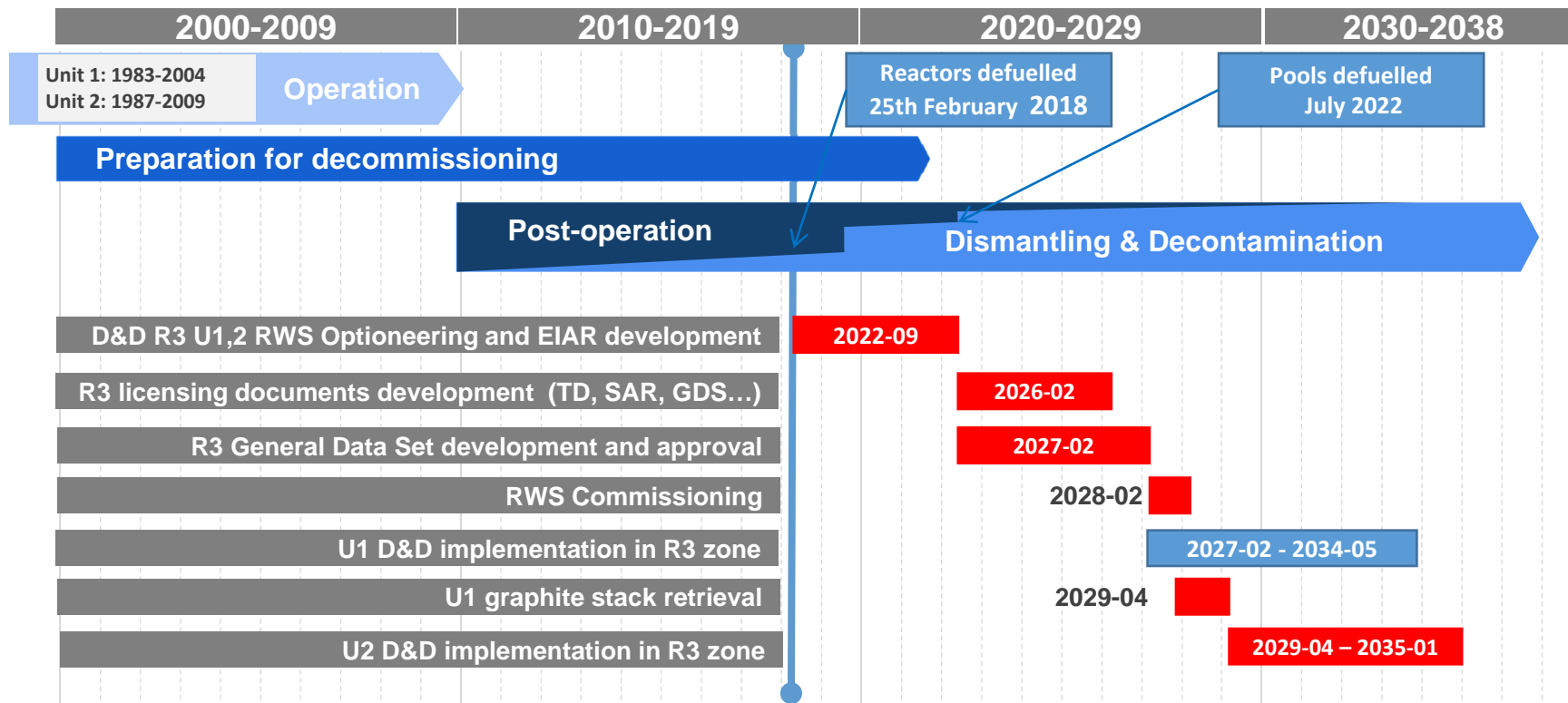


❖  Decommissioning of Ignalina NPP is co-financed by the European Union  
**Early closure: Required to facilitate EU accession due to**

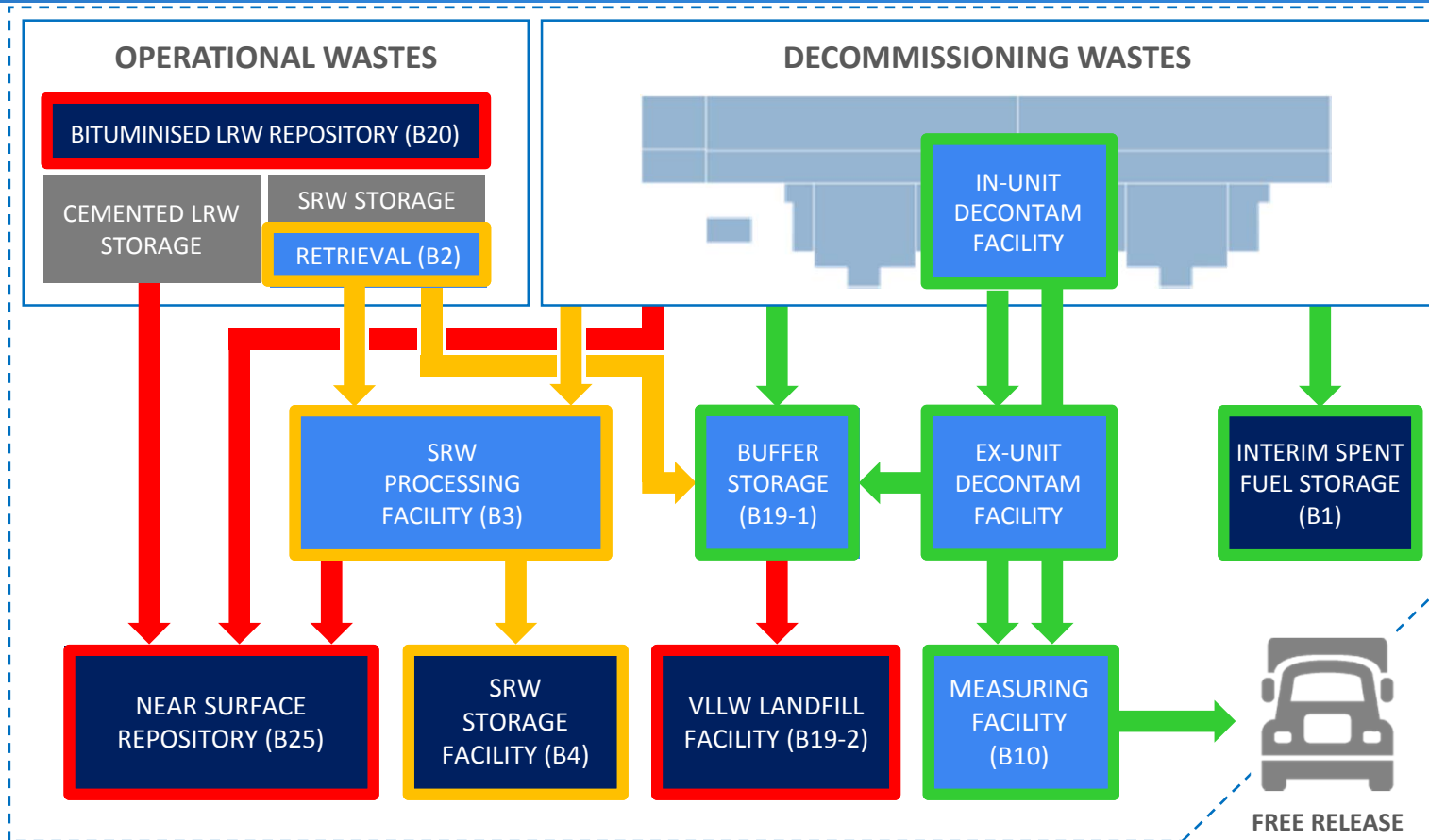
# Decommissioning Plan



# R3 reactor core dismantling Schedule



# Opening waste routes



**New facilities**

- Remaining after decommissioning
- For purposes of decommissioning
- Under establishment
- Under hot trial
- In operation

SRW = Solid Radioactive Waste  
LRW = Liquid Radioactive Waste



Decommissioning of Ignalina NPP is co-financed by the European Union

# New waste facilities



## New Interim Spent Fuel Storage Facility (B1)

- Storage Facility (place for 201 casks)
- Storage casks CONSTOR RBMK-1500/M2 (91 FA)
- Loading and handling technology/equipment)
- **Operational since September 2016**

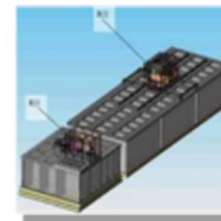


Treatment and Storage Facility B3/4

## New Solid Waste Management & Storage Facility (B234):

- treatment of solid operational and from dismantling radioactive wastes, comprising:
- Retrieval Facility (B2)
- Processing Facility (B3)
- Storage Facility (B4, for long and short lived waste)
- **Operational since October 2017 – Hot Trial**

Solid Waste Retrieval Facility (SWRF), B2



Waste Transport System

Solid Waste Treatment Facility (SWTF), B3



Solid Waste Storage Facilities (SWSF), B4



SL waste

LL waste





# New waste facilities



All new waste interim-storage or disposal facilities to be created on, adjacent to, Ignalina NPP site (radius  $\approx 1.5$  m km)



- Simplifies permissions
- Reduces new infrastructure
- Reduces transport
- Facilitates physical protection





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**Thank you for attention!**



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