

Rail Baltica Global Project technical parameters







Estimated Scope of Works

Structural part



870 km railway tracks



37 bridges



6 maintanance facilities



101 railway viaducts



38 animal passages



3 freight terminals



77 road viaducts



7 International passenger terminals



1 railway tunnel

ENE part



~2 000 km of catenary

~50 000 masts

~4 350 tonnes of copper wire



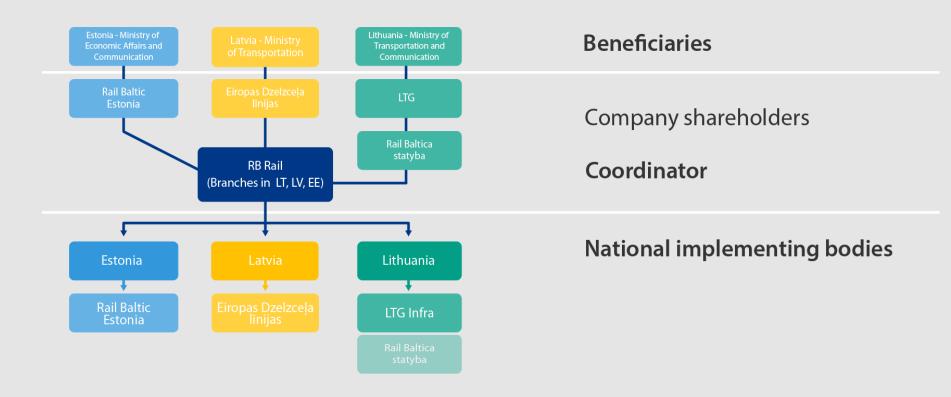
Min. 13 Traction substations:

3 in Estonia

4 in Latvia

6 in Lithuania

Rail Baltica Governance structure





What suppliers should be aware

- Submission of bids are managed via an e-procurement system (www.eis.gov.lv); register your company and get acquainted to the tool
 - Owned & operated by state authorities
 - Manual is available on www.railbaltica.org
- Follow the development of the project via our webpage: www.railbaltica.org
- Sign up to the **newsletter** and **procurement** news



ENE Works procurement

Rail Baltica

- Potential public procurement procedure two stage procedure «Competitive procedure with negotiations» which consists of 2 stages:
 - Qualification stage
 - Technical and financial proposal stage + negotiations.
- Current status:
 - ENE Engineer in place since April 2021, carrying out simulations, preparing Concept design, defining deployment strategy.
 - Entering into procurement preparation phase.
- Next steps:
 - Market consultations 12 15 October 2021
 - Preparation of first stage procurement documentation until December 2021
 - Announcement of the first stage of the procurement end of December 2021.

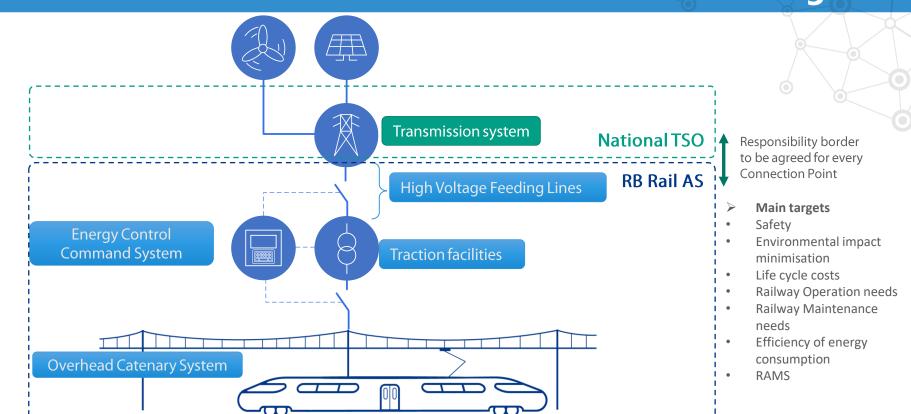


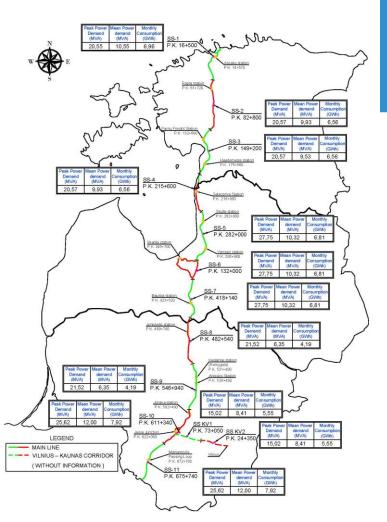
Rail Baltica Master programme & Handover strategy





Rail Baltica ENE deployment – technical scope & Main targets



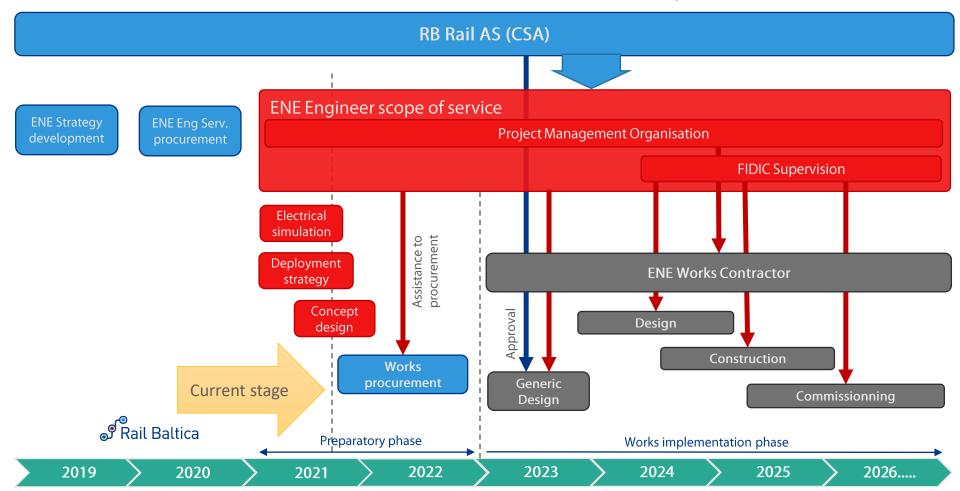


Rail Baltica Energy Subsystem - deployment strategy analysis

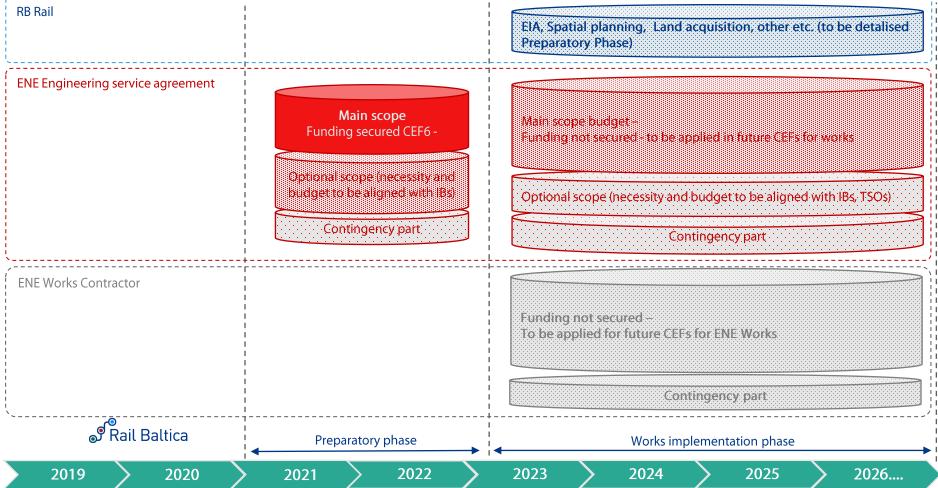
- 870 km of double track, ~2 000 km of catenary, ~50 000 masts.
- ~4 350 tonnes of copper wire is estimated (2 kg/m)
- \odot ~13 Traction substations estimated (3 EE, 4 LV, 6 LT) for 2x25 kV technology

I	>	Energy consuption Total		Estimated for Rail Baltica		Country + RB	
	Country	current (2017) (GWh)	foreseen for 2025 (GWh)	monthly (GWh)	annual (GWh)	foreseen (including RB) (GWh)	Increase (%)
	EE	8 410	9 107	21,93	263	9 370	2,9%
	LV	7 410	8 024	23,63	284	8 308	3,5%
	LT	12 149	13 156	31,29	375	13 531	2,9%

Rail Baltica ENE deployment timeline









Rail Baltica © ENE Engineering Services









1. ENE Engineering Service - Deployment Project Phases

Phase 1 – Preparatory Phase:



- Implementation of the PMO (Project Management Office)
- Technical services related to the preparation of technical studies and analysis required for the ENE subsystem deployment (including a comprehensive Traction Power Simulation)
- Delivery of the Concept Design for the ENE subsystem
- Preparation of the Works Contract draft and the related Technical Specifications and provision of the technical assistance during the overall Works procurement process

Phase 2 – Works Implementation Phase:



- PMO Services
- Generic Design Supervision and Design Supervision for Sections
- Manufacturing and Delivering Equipment and Supervision for Sections
- DNP (Defects Notification Period) supervision for the Service Sections
- Closing out Phase

Year 2+



2. ENE Deployment Project - Technical Scope



RAIL BALTICA ENE SUBSYSTEM:

HIGH VOLTAGE FEEDING LINES (by the Employers)

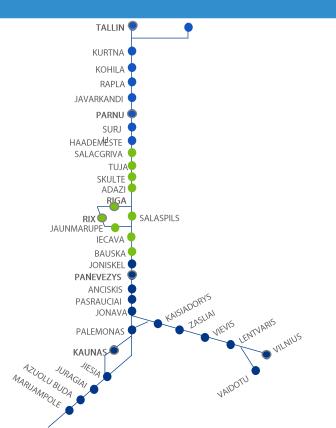
TRACTION POWER SUPPLY

OVERHEAD CONTACT LINE

ENERGY CONTROL COMMAND SYSTEM



2. ENE Deployment Project - Technical Scope



2 x 25 kV	QUANTITY
Traction Substation+SVC	13
Paralleling Post	52
Switching Post	14

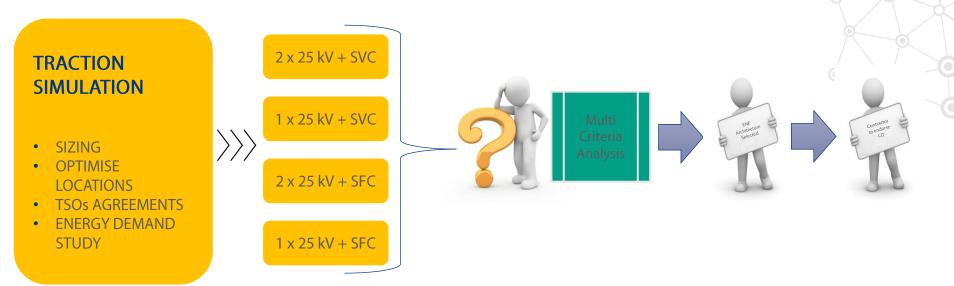
1 x 25 kV	QUANTITY
Traction Substation+SVC	24
Neutral Zone	25

2 x 25 kV SFC	QUANTITY
Traction Substation	11
Paralleling Post	46
Switching Post	9

1 x 25 kV SFC	QUANTITY	
Traction Substation	16	

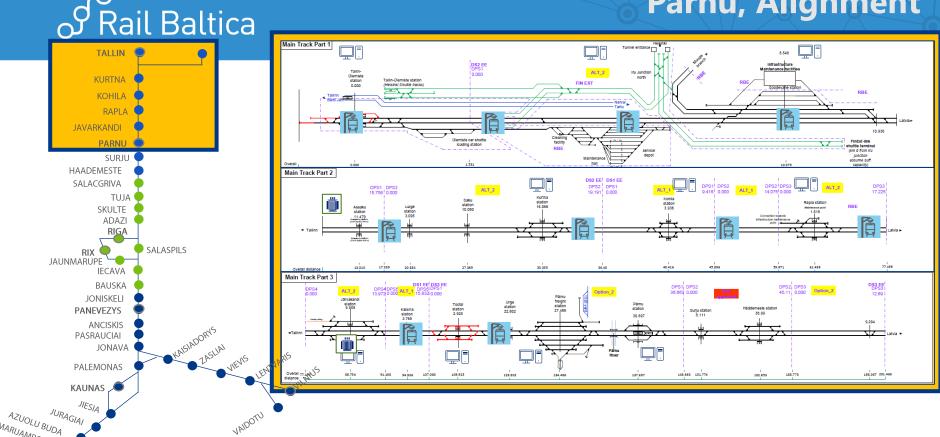


2. ENE Deployment Project - Technical Scope



In all feeding points along the line is necessary to implement additional equipment to achieve TSOs quality parameter

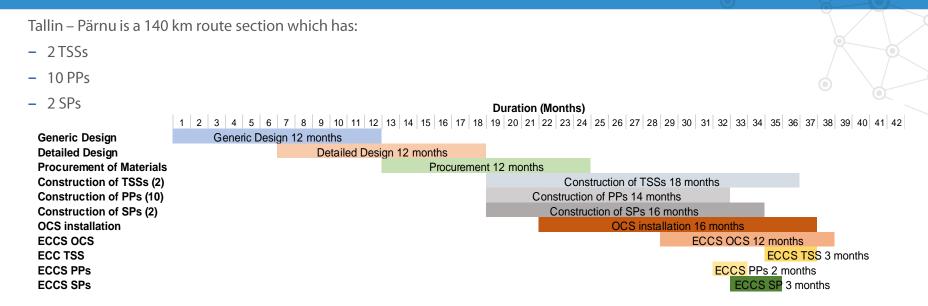
3. ENE Deployment Project - Tallinn -Pärnu, Alignment



MARIJAMPOLE



4. ENE Deployment Project - Tallin – Pärnu, Draft of a tentative Schedule



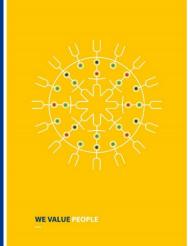
^{*}Construction & Installation durations in the chart include discipline tests

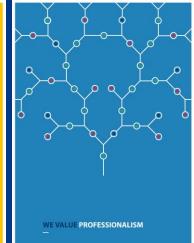
^{**} Integration Tests are not considered. At least 3 additional months may be required

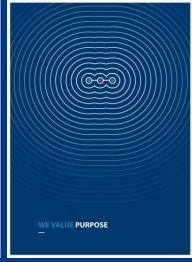


OUR MISSION

We are delivering a seamless mobility for people, goods and services to accelerate social and economic development in the Baltics and beyond







Thank You!