Rail Baltica

Rail Baltica ENE engineering services

Co-financed by the Connecting Europe Facility of the European Union

ENE Engineering Services – Deployment Project Phases

Phase No. 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

YEAR 1-2

Phase No. 2 Work Implementation Phase

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

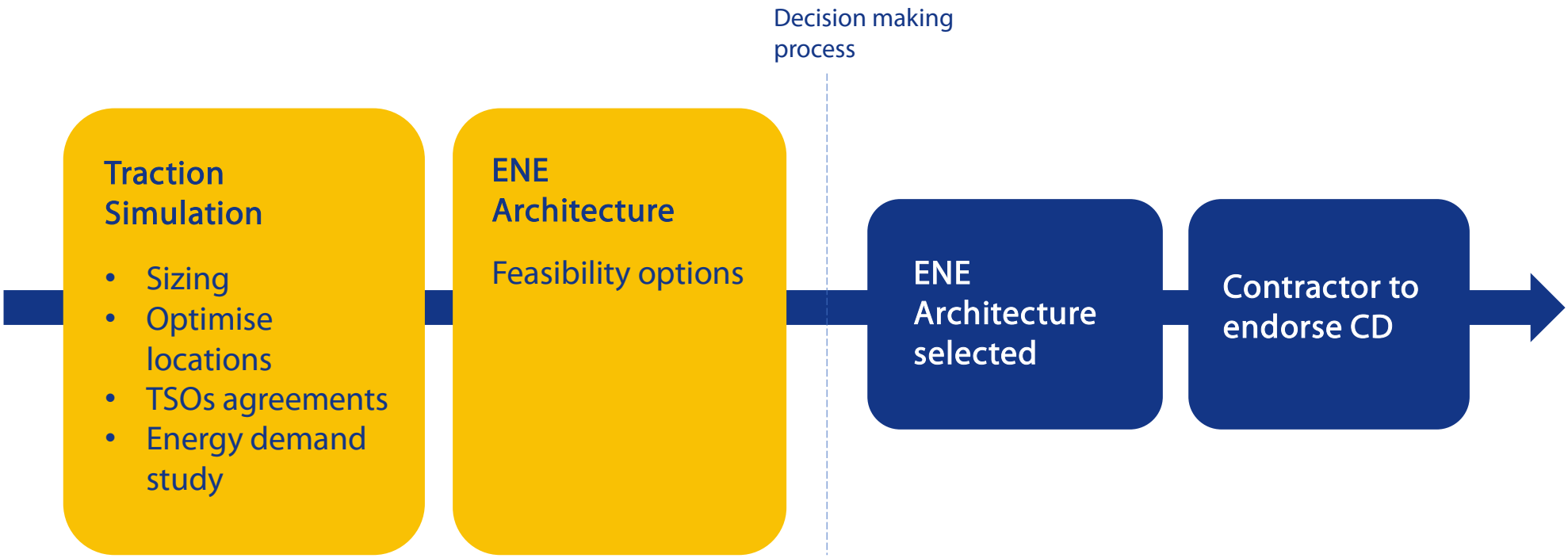
YEAR 2+

ENE Development Project – Technical Scope

Rail Baltica ENE Subsystem:

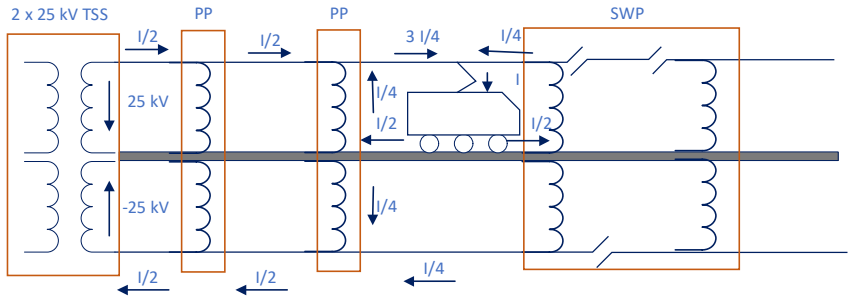
- High voltage feeding lines
- Traction power supply
- Overhead contact line
- Electric command control

ENE Development Project – Technical Scope

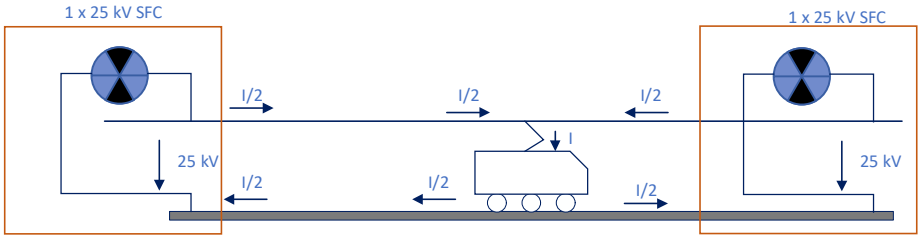


ENE Architecture – Feasible options:

2 X 25 kV



1 X 25 kV (with SFCs)



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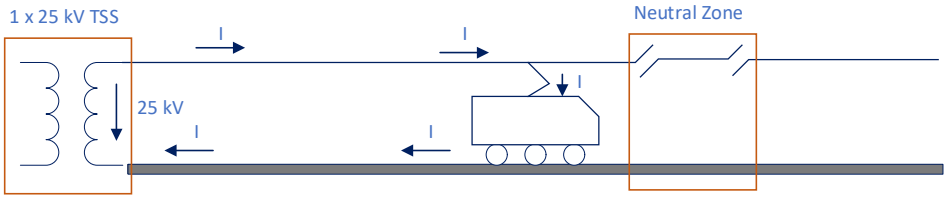
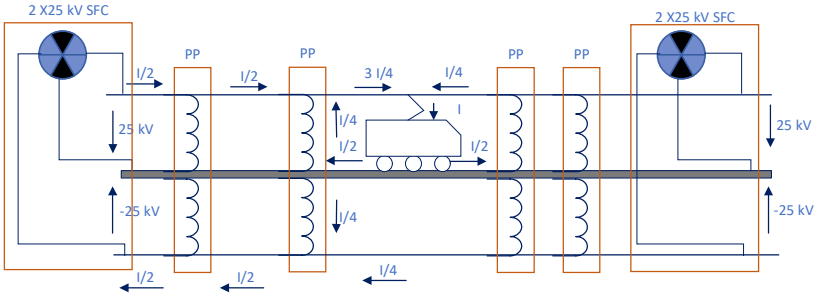
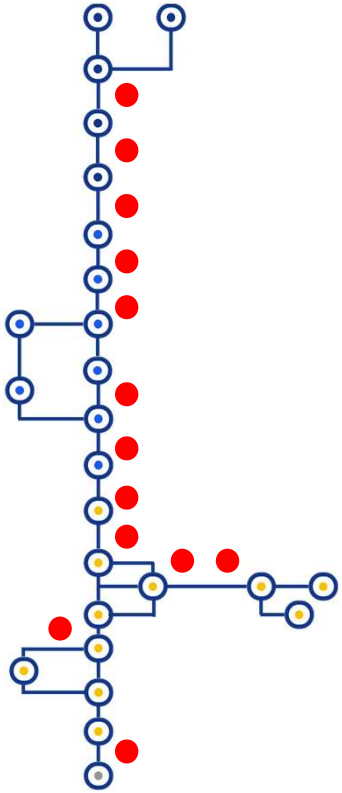


2 X 25 kV (with SFCs)

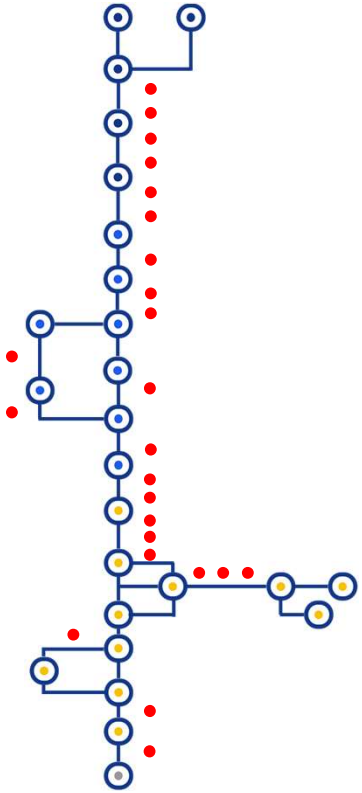


Feeding points in all differente feasible ENE (64 different points)
Architectures

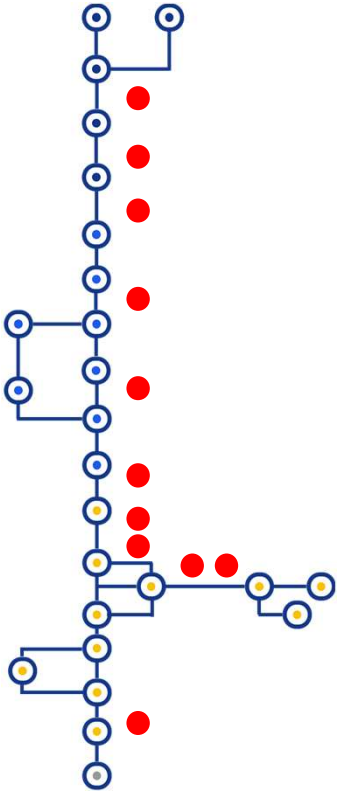
2 X 25 kV 13



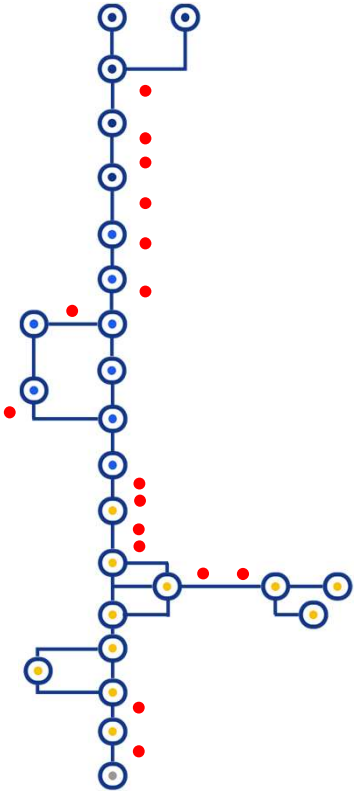
1 X 25 kV 24



2 X 25 kV (with SFCs) 11

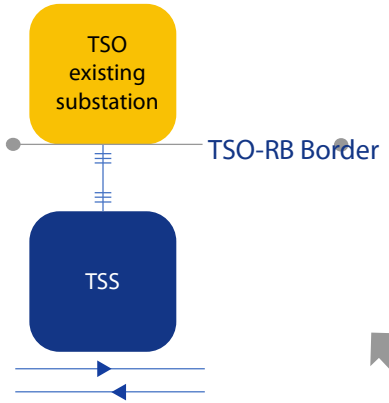


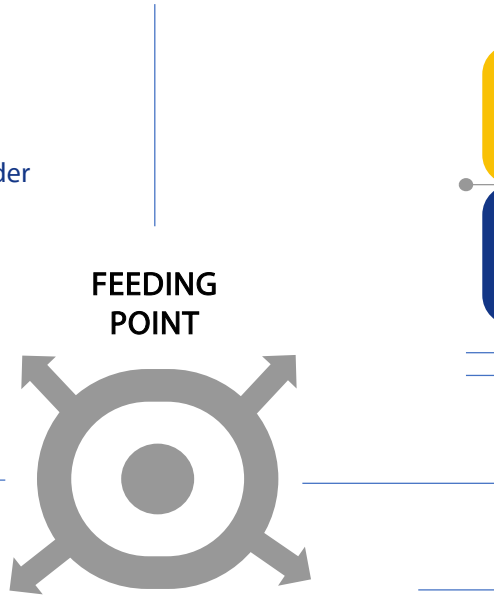
1 X 25 kV (with SFCs) 16

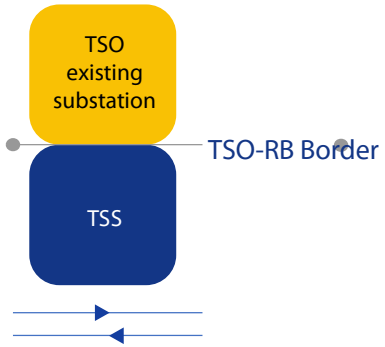


Different options to connect each potential location

CASE 1.1 : TSS connected to existing TSO substation in radial configuration (110 kV)

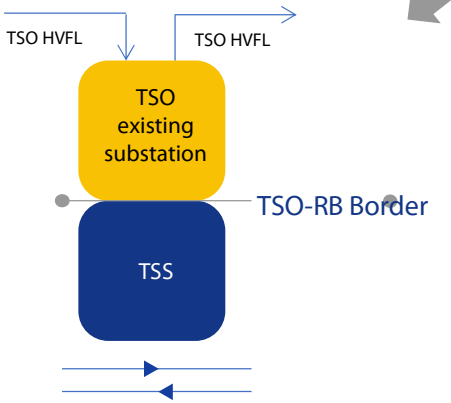


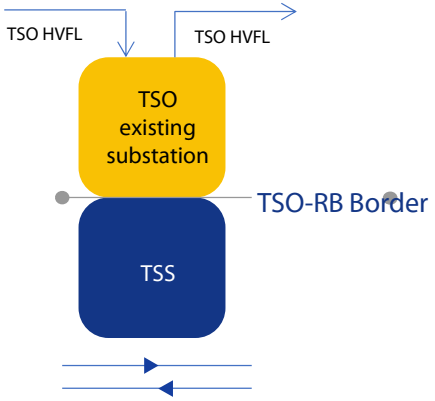




CASE 1.2 : TSS connected to existing TSO substation in radial configuration (110 kV)

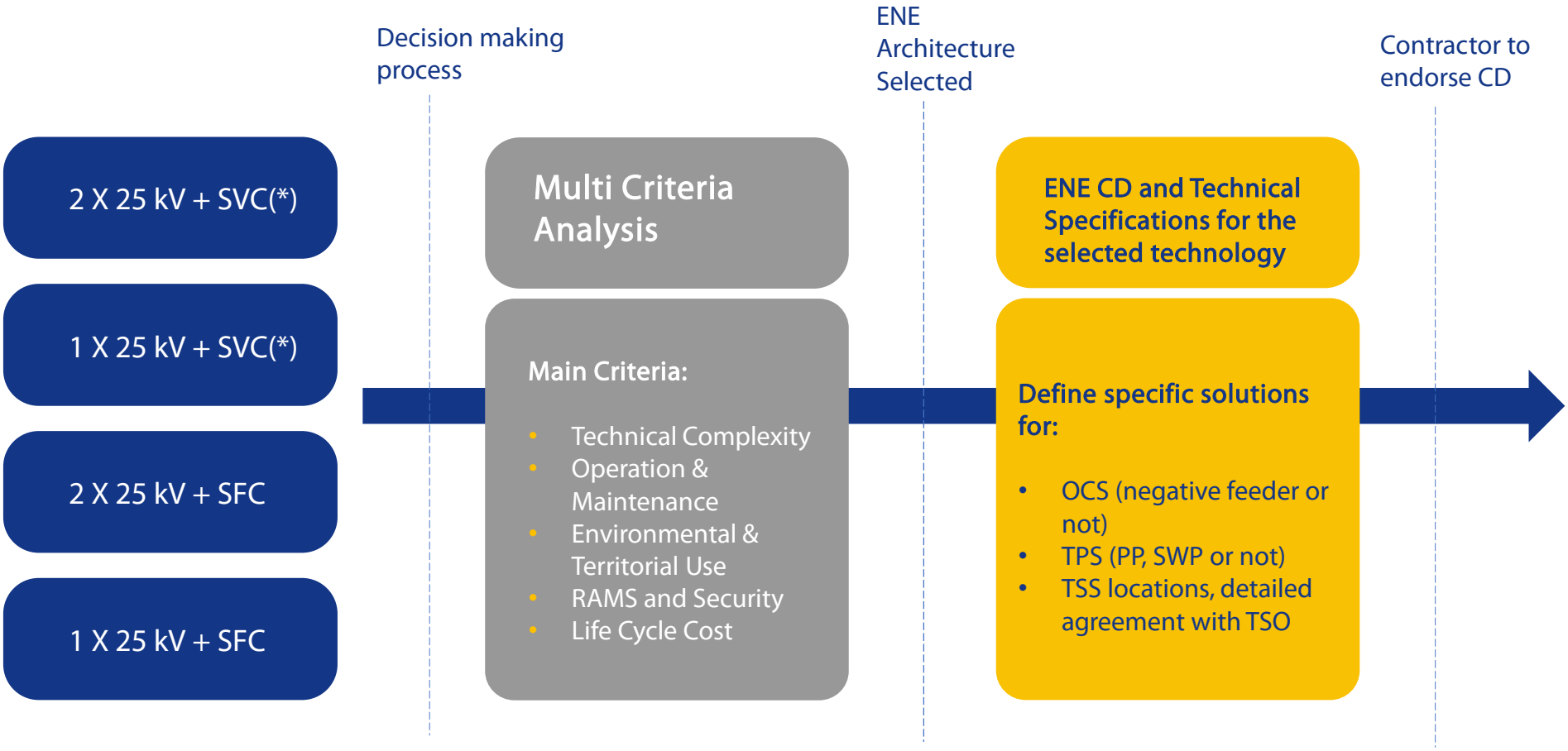
CASE 2 : 110 kV Through line configuration





CASE 3 : 330 kV Through line configuration

ENE Deployment Project - Technical Scope



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