

Welcome

Kick-off tender

Delivery and maintenance energy storage system
Wierden

Date: 5 October 2020

Program

1. Purpose kick-off
2. Introduction ProRail team
3. Tenderprocedure
4. Planning
5. Tender documents
6. Memo of Information
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8. System integration
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10. Questions?

1. Purpose kick-off

- Tender procedure
- Project scope and context
- Questions

Please note:

- The meeting will be in English;
- The meeting has an informal character, answers are not part of the tender documents;
- The presentation will be shared via TenderNed;
- The presentation is not part of the tender documents;
- The webinar will not be recorded;
- No report of the webinar will be made.

2. Introduction ProRail team

- | | |
|------------------------|-------------------------------|
| • Vincent Plasmeijer | Systemmanager EV (TEV) |
| • Marc Elfrink | Systemspecialist EV (TRV/BDV) |
| • Evelyn Uittenbogaard | Tendermanager |
| • Sander de Weerd | Cost engineer |

Please note that all communication during the tender must be via TenderNed or directly to the Tendermanager.

3. Tenderprocedure

- Publication Tender documents
- Bid phase
 - Kick-off
 - Questions and answers (2 memo's of information)
 - Deadline bid
- Evaluation phase
- Decision phase (TenderBoard AM)
- Preliminary awarding
- Complaint and appeal
- Awarding of the contract

4. Tender procedure and planning

Fasen

Publication tender

Kick off

Questions (round 1)

Answers Memo of Information 1

Questions (round 2)

Answers Memo of Information 2

Deadline bid

Preliminary awarding

Awarding of the contract

Signing contract

Planning

28 September 2020

5 October 2020

12 October 2020

19 October 2020

26 October 2020

30 October 2020

12 November < 13:30 hours CET

15 December 2021

15 January 2021

asap

5. Tender documents

1. Aanbestedingsleidraad met bijlagen
Bijlage 5 Prijzenformulier ESS
2. Technische vraagspecificatie ESS
3. Overeenkomst levering en onderhoud ESS
4. Algemene Voorwaarden Assets

For your convenience:

ENG – Tender Guideline and annexes

ENG – Technical specification

ENG – Quotation format

Please note that in case of any differences between the English and Dutch version, the Dutch version prevails.

6. Memo of Information

- Exclusively by using the Format vragenlijst or Question List Format
 - Annex 1 general questions
 - Annex 2 individual questions
- Everyone receives the anonymised questions and answers.
- Deadlines for asking questions:
 - 12 October (round 1)
 - 26 October (round 2)

You may also contact the Tendermanager directly for procedural questions.

7. Project ESS Wierden

- Purpose ESS
- Project scope
- Requirements:
 - ESS system
 - Services

Purpose ESS

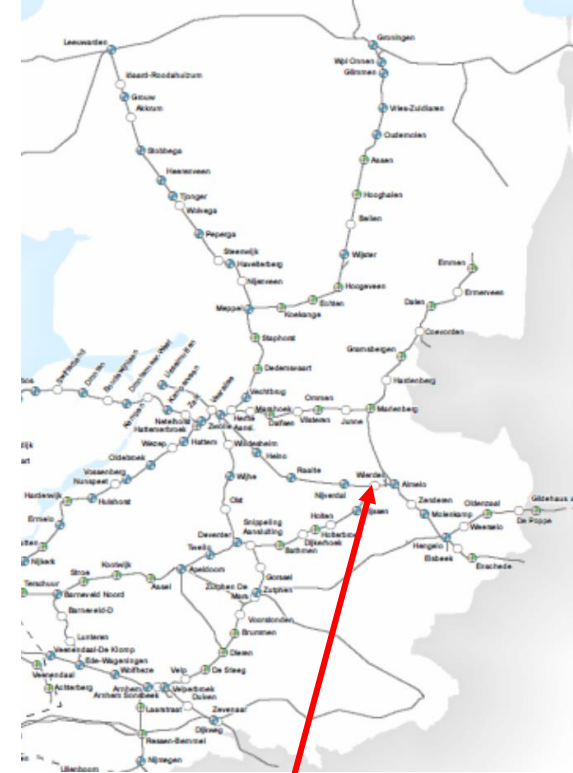
ESS will be used at location Wierden to stabilise the overheadline voltage (eliminating voltage drops) and to prevent too high rail potential voltages.

Project scope and services

- Delivery energy storage system in outdoor E-house;
- Testing (FAT, SAT);
- Commissioning at location Wierden;
- System performance monitoring via remote server;
- Performance optimization through software optimization.
- Contract management and performance reporting
- Preventive and corrective maintenance (first 20 years operation).

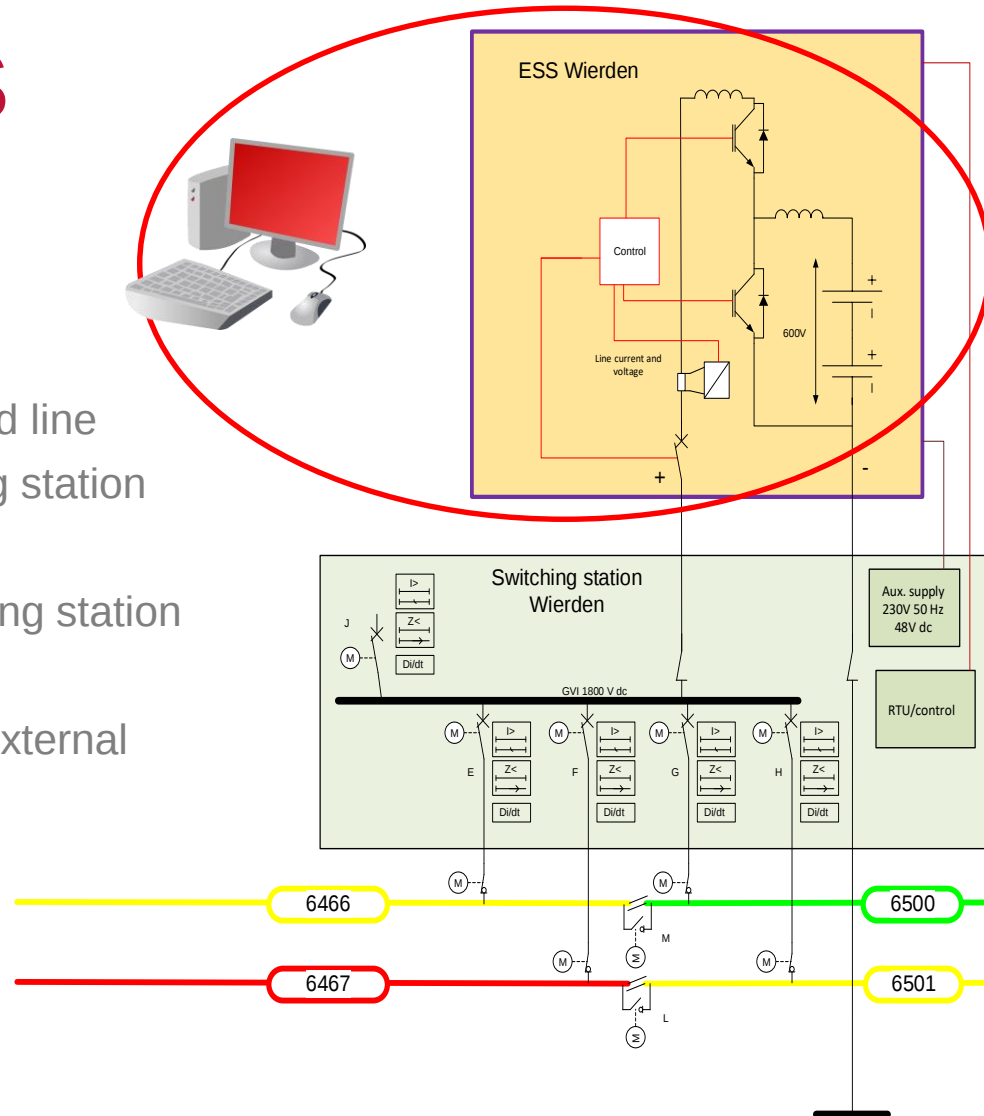
See detailed description of scope in technical specification ESS.

Technical specification specifies also what is excluded.

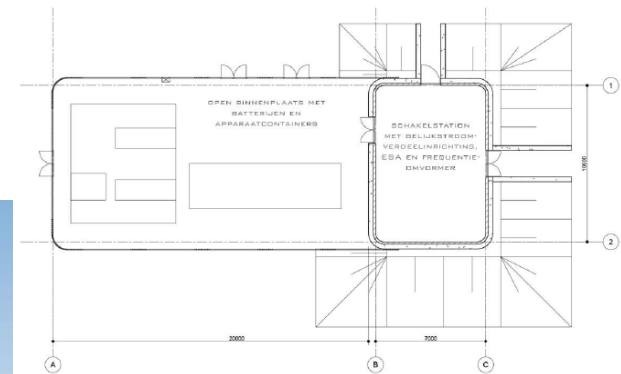


Integration of ESS

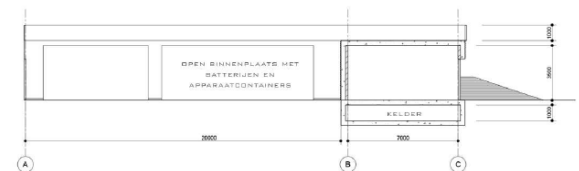
- ESS will be connected to the overhead line system via DC switchgear in switching station Wierden.
- Remote operations via RTU in switching station to ProRail operational control center
- Remote performance monitoring via external server.



Impression switching station with ESS



PLATTEGROND 1:200



DOORSNEDE 1:200



8. System integration

Integration with traction power supply:

- Commissioning of ESS at location Wierden;
- SAT/SIT;
- Support commissioning interaction with new switching station Wierden;
- Support integration tests ESS (e.g. load and stability test).

System acceptance

System acceptance:

- Compliance matrix with planning
- Verification of technical requirements during FAT, SAT and SIT at location Wierden.

For an overview of the delivery schedule and the associated assessment periods after receiving contract, see Annex I “acceptance and test plan”

9. Bid

- Bijlage 5 Prijzenformulier / Annex 5 Quotation Form
 - Format to facilitate a comparison between parties
- Only fill in the yellow cells
- Make sure both Tabs are legally signed.

Tabs:

- Quotation format
- Hourly rate/rates

9. Bid

Quotation form:

1. Delivery and commissioning ESS (fixed fee, all-in)
2. Monitoring and maintenance (annual fixed fee, all-in)
3. Contractmanagement (annual fixed fee, all-in)
4. Days needed for on-site maintenance (20 years)
5. Software optimisation service (max 80 hrs per year, 5 years; max. EUR 150,-)

Hourly rate/rates:

1. Per function
2. Max. EUR 150,-
3. Hourly rates must match with the detailed substantiation of the bid.

9. Bid - substantiation

- ProRail can ask for a detailed substantiation of the bid.
- If a bid differs >10% from ProRail's estimated budget, ProRail will ask for a detailed substantiation of the bid.
- Supplier has to provide a detailed substantiation (LCC) of the bid within 2 months after awarding of the contract (see Technical specification and annex "acceptatie en toetsplan").

Questions?