EUROPEAN UNION AGENCY FOR RAILWAYS

Moving Europe towards a sustainable and safe railway system without frontiers

ERA hybrid workshop on Rail Traction Energy Studies

10 December 2025 from h9.00 to h13.00 CET, in Brussels & online

Presentation and discussion of the Draft Final Reports of the study 'AS-02 – Harmonisation of electrification systems' and 'AS-03 – On-ground energy data collecting systems and metering'

As part of the latest 2024 Revision Request of the Technical Specifications for Interoperability, the European Commission requested ERA to deliver two Additional Studies to analyse specific issues around rail traction energy.

- *The study 'AS-02 - Harmonisation of electrification systems' assessed whether the current choice to maintain four systems for the powering the EU rail network (i.e. traction current at 1.5 kV DC, 3 kV DC, 15 kV AC, and 25 kV AC) is still the most beneficial. The alternative considered is whether harmonisation of electrification systems of the rail infrastructure could offer potential benefits, such as improved performance and interoperability, boosting electrification, enabling trains to move across borders without needing multi-system locomotives.*

- *The study 'AS-03 – On-ground energy data collecting systems and metering' evaluated the degree of compliance of the Member States with the requirement in TSI Energy (and related interfaces with TSI LOC&PAS) existing since July 2020, to ensure on-ground settlement system are capable to receive data from a Data Collecting System, exchange data across borders for settlement and accept it for billing (ref. Art. 9(4) of Commission Implementing Regulation (EU) 2023/1694). Beside such evaluation, the study analysed the technical, legal and regulatory reasons why currently railway undertakings across the EU have issues in choosing freely their traction energy supplier and in getting fair invoices calculated on the basis of real consumption generated by energy metering systems installed on-board many trains since many years. Metered consumption billing allows eco-driving, free choice of electricity supplier, green energy sourcing, regenerative braking, making railways even more energy efficient and climate neutral.*

This aim of this workshop is to present the ERA conclusions on these two important topics related to rail traction energy and to discuss the studies' findings and recommendations with relevant experts. Following the workshop, the Final Report of both studies will be published by year end on era.europa.eu .

To attend this workshop on site or online, registration is mandatory via the following page on ERA website. ERA reserves the right to confirm attendance for on site or online participants.

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Programme

Venue: European Commission (DG MOVE), Rue de Mot 28 & MS Teams

Time	*Item*
08:30 – 09:00	*Registration and welcome coffee for on site participants*
09:00 – 09:10	**1. Introduction**
09:10 – 09:30	**2. Opening remarks** Oana Gherghinescu*, ERA Executive Director*
09:30 – 10:00	**3. Study 'AS-02 – Harmonisation of electrification systems', key findings** Mitchell van Balen*, ERA Economic Evaluation Officer*
10:00 – 10:45	**4. Q&A on study AS-02** All participants, *moderated by ERA staff*
10:45 – 11:00	*Coffee break*
11:00 – 11:30	**5. Study 'AS-03 – On-ground energy data collecting systems and metering', key findings** Giacomo Potenza*, ERA Economic Evaluation Officer*
11:30 – 12:00	**6. Panel discussion on study AS-03 findings** Bart Van der Spiegel*, Infrabel Energy Management* Dyre Martin Gulbrandsen, *Eress Director* Esteban Coito Gonzalez*, ERA Project Officer*
12:00 – 12:45	**7. Q&A on study AS-03** All participants, *moderated by ERA staff*
12:45 – 13:00	**8. Closing remarks** Veronika Sarik*, Policy Officer Unit C4, Rail Safety & Interoperability, European Commission (DG MOVE)*
13:00 – 14.00	*Lunch for on site participants*

The meeting will be recorded and published on the Agency's different communication channels including the ERA website.

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