



The UIC Energy Efficiency and CO2 Emissions Experts Network is happy to invite you to take part in the workshop "The role of Infrastructure Managers (IMs) in Traction Energy Transition" that will be held on 11 February 2019 in Rotterdam.

BACKGROUND

Following the previous Workshop on Infrastructure's energy efficiency; This workshop will focus on the projects developed by IMs to improve energy efficiency and decarbonisation of the traction energy and to accompany railway undertakings to reduce the use of diesel traction. Thus, this workshop will also focus on the energy storage innovations and their best combination with the railway network. Finally, actors from the energy market have also been invited to talk about their point of view in the frame of optimising the electricity network with Railways for renewable energy.

WORKSHOP HIGHLIGHTS

11h – 17h, Lunch 12h35, Coffee break 15h15.

Improving traction system

- Higher voltages for Overhead Contact Line (OCL)
- Norwegian experience
- New Direct Current Medium Voltage railway electrification system
- Supra-conductor cable for reduced energy losses during transport

Energy storage

- Battery development and super-capacitors
- Reversible Substations
- SNCF experience

Replacing diesel traction by less emitting traction systems

- Defining best line configuration
- SBB experience
- Hydrogen refuelling facilities (to be confirmed)

External point of view from DSO or TSO: Balancing changing market with more renewable and more need of storage; possible roles for railway (to be confirmed)

VENUE

Delftseplein 27j, 9th floor.
3013 AA Rotterdam.
Netherlands

REGISTRATION

To register for the workshop, please follow the link below:
<https://events.uic.org/uic-workshop-on-energy-efficiency>

AGENDA

Moderation: Chloé Lima-Vanzeler (SNCF) and Bart Van der Spiegel (Infrabel)

Time	Session/Topic	Speaker	Item
10:30	<i>Sign in reception at 9th floor. Delftseplein 27j, 3013 AA, Rotterdam. (You will be given directions to the room)</i>		
11:00	Welcome	Gerald Olde Monnikhof - ProRail	00
11:05	Introduction	Bart Van der Spiegel - Infrabel	01
11:15	Improving Traction System:		
10'	- Higher voltages for OCL	Fedor ten Harve - ProRail	02
10'	o Transition from 1.5 kV to 3 kV	Koen De Gussemé - Infrabel	03
15'	o Transition from 3 kV to 2x25 kV: lessons from the past years		
15'	- Norwegian experience - Energy efficiency and cost reducing measures in the railway electricity network	Dyre Martin Gulbrandsen - Bane NOR	04
15'	- New Direct Current Medium Voltage railway electrification system	Hervé Caron - SNCF Réseau	05
15'	- Supra-conductor cable for reduced energy losses during transport	Guillaume Escamez - Nexans	06
12:20	Q&A session		
12:35	Lunch		
13:45	Energy Storage:		
15'	- Different energy storage options (also for regenerative braking)	Akos Labady - Eaton	07
15'	- Development of batteries for substations	Marc Borgers - Super-B	08
15'	- SNCF experience with on ground energy storage and reversible substation	Bogdan Vulturescu - SNCF	09
15'	- Integrating renewables and energy storage in the traction energy infrastructure	Koen De Gussemé - Infrabel	10
14:45	Q&A session		
15:00	Coffee break		
15:15	Replacing diesel traction by less emitting traction systems:		
15'	- How to define the best configuration for a new/renewed line (energy in TCO)? A cross-company collaborative work	Jean-François Tremong - SNCF	11
15'	- SBB experience about hybrid, hydrogen and battery systems	Matthias Rücker - SBB	12
15'	- Hydrogen refuelling facilities	Patrick Lafontaine - Advanced Energy Technologies	13
16:00	Q&A session		
16:15	External point of view:		
15'	- Point of view from DSO or TSO: Balancing changing market with more renewable and more need of storage; possible roles for railway	Theo Voskuilen - Alliander	14
16:30	Q&A session – Conclusion		
17:00	End of the day		