



PROGRAMME

RAIL INFRA FORUM 2023

Infrastructure for Sustainable
Rolling Stock

15 March 2023
Rotterdam & online

09:30 - 10:00

Registration & coffee



10:00 - 12:00

SESSION I - The shift to sustainable rolling stock

There are many developments ongoing in the railway sector to achieve zero-emission operations. What is the impact and what are the CO2 emissions of various sustainable diesel alternatives on the railway system? What are the latest developments and projects regarding hydrogen?

10:00 - 10:10

Opening of Rail Infra Forum 2023

Esther Geerts & Nick Augusteijn

Moderators of Rail Infra Forum 2023

10:10 - 10:30

Funding opportunities for alternative drives in rail transport

Frederik Wewetzer

Programme Manager Hydrogen and Fuel Cells, Now GmbH

10:30 - 10:50

On track for decarbonising On Track-Machines (OTM)

Marleen van de Kerkhof, Director, The Decarbonisation Company

Bernhard Antony, Head of Technology Centre Purkersdorf, Plasser & Theurer

10:50 - 11:10

Farewell Diesel – DB's Diesel Exit Programm

Sittipan Reinold

Head of Principles and Testing TecLab, Program Lead Diesel Exit Rail, Deutsche Bahn

11:10 - 11:30

Alternative Propulsion with Hydrogen on Railway vehicles - What must be taken into account when adopting road vehicle-specific requirements?

Tolga Wichmann

Senior Assessor Fire Safety & Alternative Propulsion, TÜV SÜD Rail

11:30 - 12:00

Panel discussion: How can we accelerate the shift to sustainable rolling stock?

What hurdles need to be overcome that slow down implementing sustainable rolling stock into rail operations? And to what extent can retrofitting existing rolling stock versus new trains play a role in order to reduce railway emissions?

- ▶ *Tolga Wichmann (TÜV SÜD Rail)*
- ▶ *Bernhard Knierim (Allianz pro Schiene)*
- ▶ *Carole Coune (Association of European Rail Rolling Stock Lessors)*
- ▶ *Sittipan Reinold (Deutsche Bahn)*

12:00 - 13:00

Networking lunch

13:00 - 15:00

SESSION II - Achieving an efficient ecosystem

To achieve net-zero operations, the right infrastructure needs to be in place, whether for refuelling or recharging. How can this be achieved efficiently and on a larger scale? To what extent can joint efforts with other transport modes play a role?

13:00 - 13:15

Take your stance: Connection between sustainable rolling stock & infrastructure

What is your opinion on the role of hydrogen? How should the infrastructure for refuelling and recharging look like? Share your opinion with others during this audience discussion!

13:15 - 13:35

Green driving on non-electrified tracks: Energy supply for alternative drives - Best practice examples from Deutsche Bahn Energy

Lennart Fink

Project Manager H2goesRail, DB Energy GmbH

13:35 - 13:55

Actual & future charging possibilities of trains with batteries for traction purposes

Paul Tobback

Lead Design Engineer Competence Centre Electrification – OCL Expert, TUC RAIL

13:55 - 14:15

Prerequisites for the fast implementation of BEMU charging infrastructure

Felix Dschung

Electrical Engineer Railway Technology, Furrer+Frey AG

14:15 - 15:00

Panel discussion: The challenges of refuelling and recharging

The right infrastructure needs to be in place to deploy diesel alternatives, such as refuelling and recharging facilities. What are the challenges, and how can an efficient ecosystem be achieved?

- ▶ *Paul Tobback (TUC RAIL)*
- ▶ *Felix Dschung (Furrer+Frey AG)*
- ▶ *Mark Remie (Nextrail Lease)*
- ▶ *Bart Rosendaal (Wystrach GmbH)*

15:00 - 15:30

Coffee break

15:30 - 17:00

SESSION III - Best practices

In this last session, several case studies, projects and best practices from various countries, such as the HyCentA Research will be presented.

15:30 - 15:50

Emission-free track machines in the Netherlands

Ron Jasker

Transition manager emission-free construction sites, ProRail

15:50 - 16:10

Modernisation of drive concepts for track work machines

Dieter Knabl, Research Assistant, Graz University of Technology

Georg Kratochwill, Consultant for railway systems and e-mobility, Dornier Group GmbH

16:10 - 16:30

Improving Environmental Sustainability of Regional Railway Services in the Netherlands

Marko Kapetanović

PhD Researcher, Delft University of Technology

16:30 - 16:50

Evaluation of Hydrogen Fuel Cell Powertrains for Heavy Duty Applications

Christian Zinner

Technical Project Manager, HyCentA Research GmbH

16:50 - 17:00

Closing of Rail Infra Forum 2023:

What are the main takeaways?

Esther Geerts & Nick Augusteijn

Moderators of Rail Infra Forum 2023

17:00 - 18:00

Networking drinks