

On the occasion of InnoTrans, Forsee Power presents the study carried out by the consulting firm E-CUBE: *Low-carbon European rail: solutions, opportunities, and challenges*

The press conference to present the study will take place at InnoTrans on September 21, 2022 at 12 p.m. and is broadcast live via this link: <https://plus.innotrans.de>

Paris, September 21, 2022 – 7:30 a.m. CEST - Forsee Power (FR0014005SB3 – FORSE), the expert in smart battery systems for sustainable electromobility, and E-CUBE, the strategy consulting firm dedicated to energy, mobility and climate issues present a study on the decarbonization of rail transport in Europe at the occasion of the InnoTrans international trade show dedicated to rail, which is being held in Berlin from September 20 to 23.

This analysis, commissioned by Forsee Power, entitled *Low-carbon European rail: solutions, opportunities, and challenges*, addresses the state of the market and the outlook by vehicle type, usage, technology, and country.

A unique study conducted by E-CUBE with around thirty players in the railway sector

E-CUBE has carried out this study thanks to the solicitation of a large panel of market players (rail equipment manufacturers, operators, engineering companies, public authorities, network managers, rolling stock procurement players) to cover the different needs, use cases and low carbon solutions for the European rail.

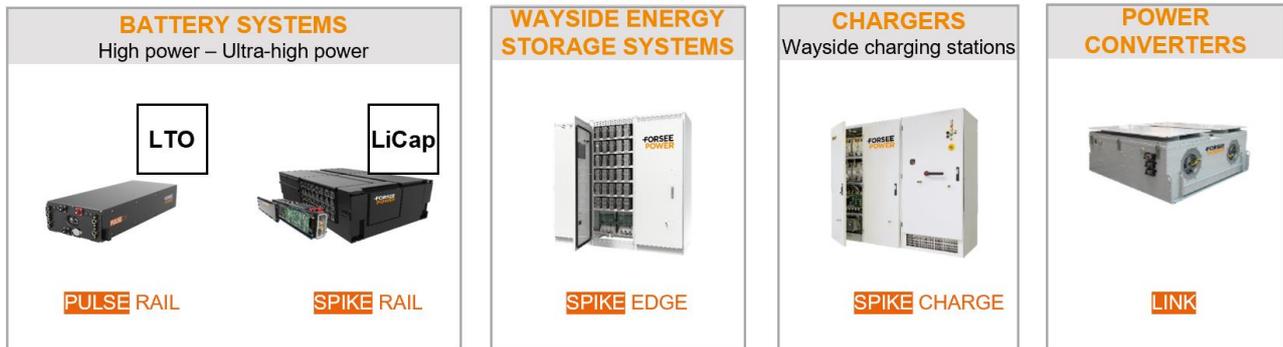
Battery and hydrogen are expected to capture most of the demand for decarbonized on-board traction. In the next few years, regional trains and shunting locomotives should represent the first segments to benefit from these solutions, whereas the decarbonization of freight trains should take place mostly after 2025. As batteries are used in most main alternative traction technologies (H2, hybrid, electric with batteries), the market for batteries could account for €100-200m/ year in the next 10 years over the three main European countries (France, Germany, United Kingdom). Suppliers that have pioneered the supply of batteries to other modes of transport, such as Forsee Power, will be key players to support the transition of rail transport to battery traction systems.

Forsee Power: a comprehensive rail offer adapted to the future challenges of the rail sector

The rail transport market is a strategic area that the Forsee Power Group has been addressing for several years with its offer of battery systems. In July 2021, the acquisition of Holiwatt/Centum Adetel Transportation provided Forsee Power with an offer of chargers, wayside energy storage systems, ultra high power battery systems, and converters for a wider range of application.

This offer has integrated the Forsee Power product family, which is now very complete and complementary.

FORSEE POWER RAIL PRODUCTS



The Group's customers include major transport references in Europe and in Asia. In particular, it equips the Nice tramway and the tramway in the city of Kaohsiung, on the island of Taiwan, with its battery and wayside fast-charging systems to enable catenary-free operations.

Forsee Power also supports the French manufacturer ALSTOM in the hybridization of the TER or SOCOFER, manufacturer of maintenance locomotives.

The study *Low-carbon European rail: solutions, opportunities, and challenges* is [available for download on the Forsee Power website](#).

Forsee Power is exhibiting at **InnoTrans, Hall 15.1, stand #465**.

The Group will present the battery system developed for the future diesel/battery hybrid TER passenger trains, a project conducted by SNCF with ALSTOM/CAF with the mobilisation and financial participation of the Occitanie, Grand Est, Nouvelle-Aquitaine and Centre-Val de Loire regional authorities.

About Forsee Power

Forsee Power is a French industrial group specializing in smart battery systems for sustainable electric transport (light vehicles, off-highway vehicles, buses, trains, and ships). A major player in Europe, Asia and North America, the Group designs, assembles, and supplies energy management systems based on cells that are among the most robust in the market and provides installation, commissioning, and maintenance on site and remotely. More than 1,200 buses and 100,000 LEV have been equipped with Forsee Power's batteries. The Group also offers financing solutions (battery leasing) and second-life solutions for transport batteries. Forsee Power recorded revenue from sales of EUR 72.4 million in 2021 and has more than 600 employees. For more information: www.forseepower.com | @ForseePower

About E-CUBE Strategy Consultants

E-CUBE Strategy Consultants is a tier-1 strategy consulting firm focusing on Energy, Mobility and Climate. With fifty consultants in three locations – Paris, Lausanne, Brussels, E-CUBE offers deep sector expertise, top-level analytical skills and a culture of sustainable innovation to address the strategic and operational challenges of its clients. www.e-cube.com

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