

PRESS RELEASE, August 5, 2026

IAA Transportation premiere at the Holland Pavilion in Hanover (Germany): first fuel cell vehicle for the infrastructure sector presented

Coxx Mobile Systems, E-Lions H2, and Hartog-Est develop emission-free solution for infrastructure with high payload capacity, long range, and maximum uptime.

During IAA Transportation, September 15–20 in Hanover, the Dutch vehicle manufacturers E-Lions H2, Coxx Mobile Systems, and Carrosseriefabriek Hartog-Est will jointly present a premiere at the Holland Pavilion in Hall 25: the first fuel cell vehicle specifically developed for the infrastructure sector. The vehicle combines emission-free driving with the practical features professionals need every day:

- 450 km range
- 57 cm low loading floor
- spacious cargo bed with securing options and storage boxes
- maximum towing capacity of up to 3,500 kg
- can be driven with a B driving license

The 57 cm low loading floor is approx. 30 cm lower than is typical in the sector. This increases accessibility, safety, and job satisfaction for users. Alternatively, the loading floor can be positioned at a height of 76 cm directly above the rear wheels. This increases the loading surface area by eliminating wheel arches.

The three Dutch parties are bringing their expertise together in one integrated solution. Coxx Mobile Systems supplies the modular, low vehicle chassis (X-Low), E-Lions H2 the FCEV hydrogen fuel cell technology, and Hartog-Est the practical bodywork and loading solution. The result is an emission-free commercial vehicle that seamlessly aligns with daily operations within infrastructure, construction, and service provision. Working emission-free without compromising operational readiness.

The transition to emission-free mobility requires solutions that align with the practices of infrastructure companies. Long working days, long distances, materials and tools on board, and limited charging options mean that traditional battery-electric solutions are not always suitable.

The new fuel cell vehicle offers an alternative to this. Thanks to the combination of electric drive and hydrogen technology, the vehicle boasts a large, emission-free range, short refueling times within 10 minutes, and a gross vehicle weight (GVW) of up to 4,250 kg within a B driving license.

Due to the completely emission-free drive, the vehicle is widely applicable: on highways, during on-site work, and in urban areas where zero-emission requirements are becoming increasingly important. This allows companies to carry out their work sustainably without compromising accessibility, flexibility, and operational readiness.

Dutch collaboration as the basis for innovation

Coxx Mobile Systems and E-Lions H2 are collaborating as sustainable development partners on emission-free commercial vehicles and passenger transport. Coxx combines its expertise in modular, lightweight vehicle chassis and mobility solutions with the innovative FCEV technology of E-Lions H2.

The vehicles combine an electric drive with hydrogen as an energy carrier and are RDW-approved in the Netherlands. The collaboration results in solutions that are not only technically innovative but also align with the daily requirements of professional users.

“In this powerful Dutch collaboration, we are realizing Zero Emission customization for many commercial vehicle applications.”

Robert Cox, 4th generation owner of Coxx Mobile Systems

E-Lions H2: hydrogen technology for professional mobility

E-Lions H2 develops emission-free commercial vehicles based on Fuel Cell Electric Vehicle technology. The combination of electric drive and hydrogen offers entrepreneurs a long range, high payload capacity, and maximum uptime, without the limitations of long charging times or grid congestion.

The applied fuel cell technology is based on proven Toyota Fuel Cell technology. With this, E-Lions H2 offers a reliable solution for companies that want to make their fleet more sustainable while remaining operationally flexible.

“Working together on sustainable mobility with innovative technologies that deliver added value for our customers”

Coen Schluter, Owner E-Lions-H2

Hartog-Est: custom solutions for practical use

Hartog-Est translates innovative vehicle technology into a practical solution for the user. The family business from Waardenburg has over 200 years of experience in bodywork construction and develops custom transport solutions for various sectors.

Within this collaboration, Hartog-Est handles the development of the cargo box and bodywork solution for the vehicle. The superstructure is mounted as directly as possible onto the Coxx chassis for a lightweight solution with maximum accessibility. This links hydrogen technology to the daily practice of infrastructure professionals, with a vehicle that is functional, reliable, and tailored to the user.

“The collaboration between E-Lions H2, Cox Mobile Systems, and Hartog-Est ensures future-oriented solutions for the infrastructure sector”

Jorrit den Hartog, 5th generation owner Hartog-Est, the transport builder since 1825

SWIM subsidy supports transition to hydrogen mobility

The introduction of fuel cell vehicles aligns with the growing focus on hydrogen as a sustainable energy carrier for professional transport. Through the SWIM subsidy scheme, companies can receive financial support for the purchase of fuel cell vehicles (FCEVs).

This support helps organizations make the transition to emission-free mobility and contributes to the further development of hydrogen as a practical solution for professional transport. With their presentation at the Holland Pavilion during the IAA, Cox Mobile Systems, E-Lions H2, and Hartog-Est demonstrate how Dutch innovation partners are working together on a new generation of emission-free commercial vehicles for the infrastructure sector, among others.

ABOUT THE PARTNERS

Cox Mobile Systems develops innovative vehicle solutions and modular, lightweight chassis for commercial vehicles and passenger transport. With 110 years of experience in vehicle development, the company focuses on more efficient, sustainable, and smarter-designed mobility.

E-Lions H2 develops emission-free commercial vehicles using Fuel Cell Electric Vehicle technology. By combining electric propulsion with hydrogen as an energy carrier, the company offers solutions for professional transport with a long range and high availability.

Hartog-Est is a specialist in custom bodywork construction and develops transport solutions for various industries. With over 200 years of experience, the company combines craftsmanship with innovation and responds to the shift towards sustainable transport.

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