

KONČAR

A Reliable Partner in Sustainable Rail Solutions



KONČAR is a renowned company in power engineering and the rail solutions industry and operates in the fields of power generation, transmission and distribution, rail vehicles and infrastructure, digital solutions and platforms, with a focus on proprietary development and innovation, as well as laboratory testing and certification.

In 2021, KONČAR celebrated a century of excellence and a century of operations across 130 markets worldwide.

Widely recognised in the power engineering sector, the name KONČAR is also a global synonym for tradition, trust, expertise, innovation and cutting-edge technology rail solutions.

Following a successful longstanding co-operation with the domestic transit company Zagreb Electric Tram, KONČAR has won an export agreement with the city of Liepaja in Latvia, delivering trams for public urban passenger transport to the Baltic coastal city. KONČAR's wealth of experience in the development of technical solutions for 100 percent low-floor trams and low-

floor electric motor and diesel-electric trains was the key capability recognised by the customer.

The co-operation with the Latvian customer commenced in November 2018, when an agreement was signed for the delivery of six low-floor trams, while the second agreement, for another batch of six trams, was signed in August

2020. It is significant to point out that 85% of the purchase value of the vehicles was co-funded by the EU as part of the Comprehensive Reconstruction of Tram Route and Adjacent Territory programme. Liepājas Tramvajs subsequently provided funds for two additional trams, and once again entrusted KONČAR with the construction and delivery of the units.

The trams boast a variety of KONČAR's proprietary solutions for key sub-systems, such as the main electric drive, auxiliary power supply systems, control and communication systems, steel structures for driving wheel sets, bogies and the like. They are based on modern technical solutions and design; they are air-conditioned, equipped with video surveillance and a passenger announcement system. The vehicles are also equipped with a controlled hydro-pneumatic suspension system, which enables the floor height to be adjusted to the track conditions. This is a fully low-floor vehicle, without steps and with a flat floor along the entire length of the passenger compartment, which is particularly important for public transport users with mobility difficulties and parents with strollers.

Besides KONČAR Group members, dozens of companies from

Croatia have participated in the realisation of this project. The contract for the Latvian market is a recognition of KONČAR's export orientation, and an affirmation of the competitiveness and quality in the demanding EU market. To date, KONČAR has delivered a total of 12 trams to the Latvian customer, while the thirteenth vehicle will make a short layover in Berlin and be exhibited at the largest transport fair InnoTrans, in the period 20–23 September 2022, before making its way to Latvia.

More extensive electrification of public transport is necessary in order to reduce excessive greenhouse gas emissions because it creates significant benefits in reducing harmful levels of air pollution and noise. The economic advantages are also realised in terms of lower costs. Reduction of harmful environmental impacts of urban transport is an important EU objective. The main targets of action include pivoting to the most efficient types of transport which generate the lowest pollution levels, using more sustainable transport technology, fuel and infrastructure, and ensuring transport prices that fully reflect the harmful environmental and health impacts.

EU strategic documents focus on the decarbonisation of transport. The objective of the 2018 European

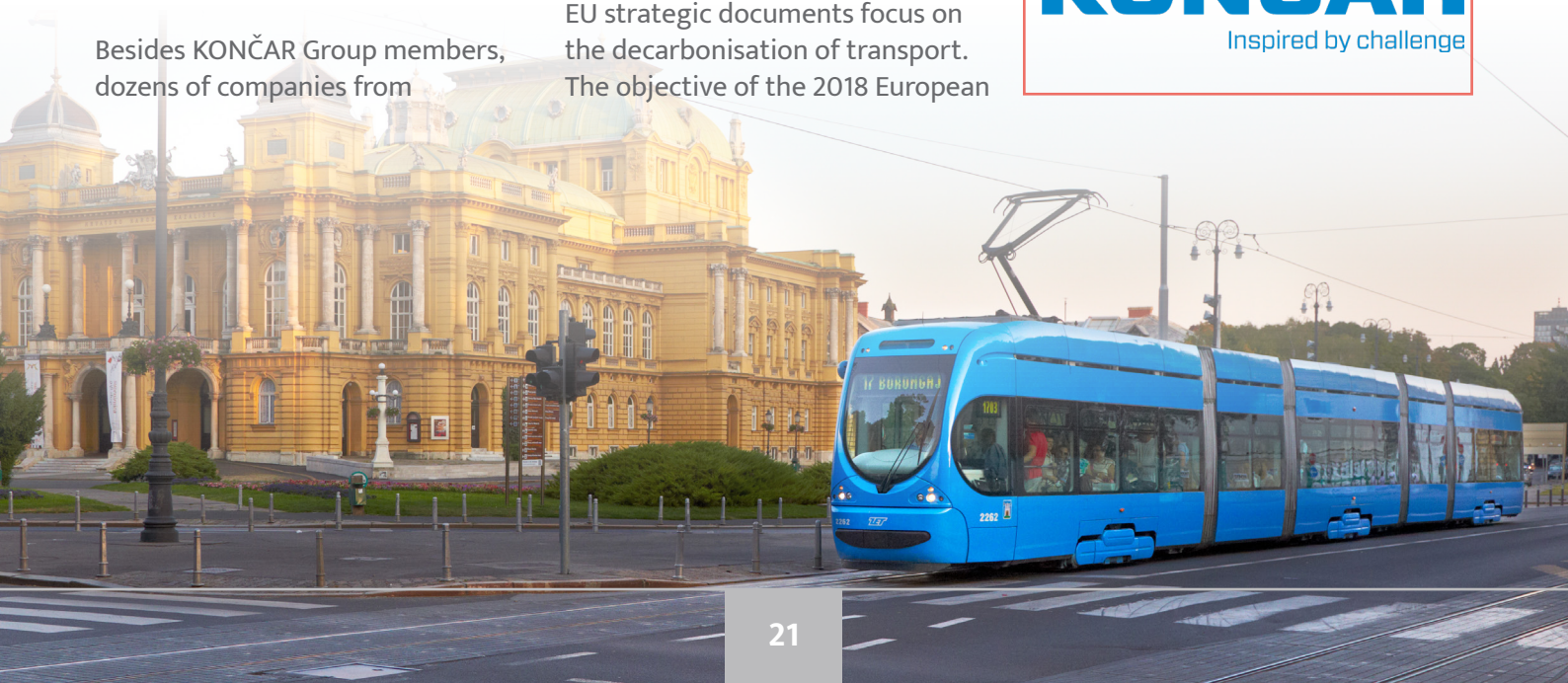
Commission's strategy **A Clean Planet for all**: A European strategic long-term vision for a prosperous, modern, competitive and climate neutral economy is to outline scenarios for achieving climate neutral economy across the EU by 2050. In terms of transport, the strategy emphasises the need for a systematic approach, highlights the importance of transition to low-carbon emission and zero-emission vehicles, draws attention to the central role of electrification and renewable energy sources, and advocates improving operational efficiency.

India, South Korea and China are at the forefront of the electrification of public transport, followed closely by the USA, while Europe still lags behind. Having a reliable local manufacturer has become an imperative today, and KONČAR has again affirmed its status of the home of the European rail solutions.

Watch our video!

For more information please contact marketing@koncar.hr

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Inspired by challenge



KONČAR – the home of the European low-floor tram



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