Minister Lies: “The (train) future begins in Lower Saxony“

- Fuel cell trains replace diesel trains
- Alstom builds 14 Coradia iLint trains in Salzgitter for LNVG
- Linde provides for the hydrogen supply of the trains

Wolfsburg, 09.11.2017 All parties involved in the contract signing in Wolfsburg on Thursday agreed: The train of the future will be driven with hydrogen, will run completely emission-free and will start its first passenger service in Lower Saxony. It is called “Coradia iLint“ and is built by rail manufacturer Alstom for the Local Transport Authority of Lower Saxony (Landesnahverkehrsgesellschaft Niedersachsen, LNVG). A total of 14 fuel cell trains will be built at the Salzgitter site and are scheduled to convey travellers between Cuxhaven, Bremerhaven, Bremervörde and Buxtehude from December 2021. They will replace the diesel multiple units of the transport authority Elbe-Weser-Verkehrsbetriebe (evb) and will reduce the pollutant emission in daily service to zero. The supply of the train with hydrogen will be ensured by an own filling station of The Linde Group. The Coradia iLint can cover up to 1,000 kilometres with one tank fill, and can reach a maximum speed of up to 140 km/h.

On Thursday, in the presence of the press, the managements of LNVG, Alstom and Linde signed the contracts on the delivery of the 14 fuel cell trains and their 30-year maintenance and energy supply in Wolfsburg. Olaf Lies, Economy and Transport Minister of Lower Saxony, had invited his ministerial colleagues to this contract signing on the occasion of the transport minister conference so that they could get their own impression of the Coradia iLint prototype, which will take up pilot operation in the evb network in spring 2018 together with a second vehicle.

In Wolfsburg, Transport Minister Lies handed over the official notice of funding to the two LNVG chiefs Hans-Joachim Menn and Klaus Hoffmeister. LNVG will purchase the Coradia iLint trains for its own vehicle pool and will then rent them to a railway operator. The fuel cell trains are going to be maintained by Alstom in the evb depot in Bremervörde, which will be extended for this purpose.

Transport Minister Olaf Lies said: "From now on there will be a real alternative to diesel trains in non-electrified rail transport. Hydrogen and fuel cells are an ideal combination for climate protection as well as for the energy and transport revolution. They allow the storage of energy and emission-free travelling on rail. We fund innovative technologies and make a sustainable contribution to the energy revolution in the transport sector. I am pleased that Alstom will build the trains in Lower Saxony, thus further strengthening their production site in Salzgitter."

Enak Ferlemann, Parliamentary State Secretary at the Federal Ministry of Transport and Digital Infrastructure (BMVI), declared: "Emission-free, energy-efficient and cost-effective – trainsets with fuel cell drive are an environmentally friendly alternative to diesel locomotives. To strengthen the industrial site of Lower Saxony, we want to fund LNVG’s project by investing around 8.4 million euros. The funds are to be provided from the National Innovation Program for Hydrogen and Fuel Cell Technology (NIP 2)."

Menn und Hoffmeister, whose transport authority organizes regional transport on rail between the North Sea and the Harz Mountains, yearly spending tax revenues of nearly 300 million euros for it, emphasized during the
contract signing: “Fuel cell technology has good chances to prevail in Germany in the next 10 to 15 years, with diesel vehicles being more and more forced out of the market”, as both outline the future of rail transport.

Gian Luca Erbacci, Senior Vice President for Europe at Alstom, said in Wolfsburg: “This day represents a real breakthrough in rail transportation and a big step change towards a clean mobility system. For the first time worldwide, a hydrogen-fuelled passenger regional train will replace diesel trains, generating zero emission with the same performance as a regular regional train and up to 1,000 km autonomy. Alstom is very proud to have developed its Coradia iLint train in Salzgitter, Lower Saxony. We are grateful to the German federal government and to the regional government of Lower Saxony for their continuous support and confidence in Alstom’s strong innovation capabilities”.

The guarantee of a reliable and secure supply of energy is one of the prerequisites for a successful use of fuel cell trains. The Linde Group, a world-leading gases and engineering company, will provide for the hydrogen supply of the new fuel cell trains and will therefore erect and operate the worldwide first hydrogen filling station for trains in Bremervörde. The necessary investment costs will be estimated at around 10 million euros funded by the Federal Government. LNVG will rent the premises for the filling station from evb and will make it available to Linde AG, which will also be responsible for the operation and construction permit. The on-site production of hydrogen by electrolysis and by means of wind energy will be planned in a later phase of the project.

Bernd Eulitz, Member of Executive Board of Linde AG, emphasized: “The use of hydrogen for rail vehicles is a milestone in the application of fuel cells for emission-free transport. For the first time, the coupling of this sector to hydrogen infrastructure will be realized within a significant scope and in an economically viable manner. This development will push the establishment of a hydrogen society and will create new solutions for the storage and transport of energy. We are proud to be part of this innovation project.”

Link for photos of the Coradia i Lint:  https://als.ptn.rs/a/158013

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