RailBusinessDaily

14 Coradia iLint starting passenger service on first 100% hydrogen operated route

August 24, 2022



Alstom has announced that the world's first hydrogen train, the Coradia iLint, reached another historical milestone today in Bremervörde, Lower Saxony, Germany. It is now used on the world premiere 100% hydrogen train route, in passenger operation. This regional train only emits steam and condensed water while operating with a low level of noise. The 14 vehicles with fuel cell propulsion belong to Landesnahverkehrsgesellschaft Niedersachsen (LNVG). LNVG had already started looking for alternatives to diesel trains in 2012 and thus provided momentum for the development of the trains in Germany. Other project partners for this world debut are the Elbe-Weser railways and transport company (evb) and the gas and engineering company Linde.

"Emission free mobility is one of the most important goals for ensuring a sustainable future and Alstom has a clear ambition to become the world leader in alternative propulsion systems for rail. The world's first hydrogen train, the Coradia iLint, demonstrates our clear commitment to green mobility combined with state-of-the-art technology. We are very proud to bring this technology into series operation as part of a world premiere, together with our great partners," says Henri Poupart-Lafarge, CEO and Chairman of the Board of Alstom.



On the route between Cuxhaven, Bremerhaven, Bremervörde and Buxtehude, 14 hydrogen-powered Alstom regional trains will be operated by evb on behalf of LNVG, gradually replacing 15 diesel trains. They will be fuelled daily and around the clock at the Linde hydrogen filling station. Thanks to a range of 1,000 kilometres, the Alstom multiple units of the Coradia iLint model, which are emission-free in operation, can run all day long on just one tank of hydrogen on the evb network. In September 2018, there had been a successful trial run of almost two years with two pre-series trains.

Despite numerous electrification projects in several countries, a significant part of Europe's rail network will remain non-electrified in the long term. In many countries, the number of diesel trains in circulation is still high, with more than 4,000 cars in Germany, for instance.

Alstom currently has four contracts for hydrogen fuel cell powered regional trains. Two are in Germany, the first for 14 Coradia iLint trains in the region of Lower Saxony, and the second for 27 Coradia iLint trains in the Frankfurt metropolitan area. The third contract comes from Italy where Alstom is building 6 Coradia Stream hydrogen trains in the region of Lombardy – with the option for 8 more, while the fourth is in France for 12 Coradia Polyvalent hydrogen trains shared across four different French regions. Furthermore, the Coradia iLint has been successfully tested in Austria, the Netherlands, Poland, and Sweden to name a few.