

Alstom to install APS™, its catenary-free solution on Barcelona's light rail connection - Diagonal tramway line

- The APS dynamic ground-based feeding system, is the most service-proven catenary-free solution for trams, with 19 years of operation, in 11 cities worldwide
- A pioneer in Spain, it is the first Alstom catenary free project in Spain

27 July 2022 – Alstom, global leader in smart and sustainable mobility, has been awarded, by the Barcelona Metropolitan Transport Authority (ATM - Autoritat del Transport Metropolità), a contract for the electrification of the first phase of the Barcelona tram network connection, connecting the two existing tramway lines, with Alstom's APS ground-based dynamic feeding system.

APS preserves the beauty of urban environments by removing wayside infrastructure and obtrusive catenary contact lines and masts. The contract includes both work on the infrastructure and the retrofit of 18 trams from the current fleet.

The system consists of power supplied to the light rail vehicles through a segmented street-level power rail. The conductive segments are automatically switched on and off as the tram progresses, ensuring total safety for pedestrians and all road users.

Alstom's APS technology is currently in operation in 11 cities on four continents (including Bordeaux, Tours, Rio de Janeiro, Istanbul, Dubai, Lusail and Sydney). Every day, 362 trams use this solution on over 145 km of track in commercial service, representing 58 million km travelled with APS (as for July 2022).

Barcelona Diagonal tramway line

This contract is part of the project to connect Barcelona's two tram networks, Trambaix and Trambesos. This connection, 3.9 kilometres long and with 6 new stops added to the tram network, will improve mobility in the city and will enhance intramodality by connecting the Tram with the suburban and metro networks. Furthermore, once the connection is completed, it will contribute to reducing the carbon footprint by transferring users from private vehicles to the tram. Barcelona's tramway is in the backbone of Barcelona's promotion of sustainable mobility, with a commitment to eco-friendly, accessible, equitable and healthy urban development.

Barcelona tramway, inaugurated in 2004, has a total of 6 lines and 56 stops in a 29.22 kilometres long systems that moves more than 26 million passengers annually. It is made up of two independent systems: Trambaix (a 15.1 km network that connects Diagonal with Baix Llobregat area) and Trambesos (which connects Barcelona with Sant Adria de Besos and Badalona, on a 14.1 km route). The network is operated by 41 Citadis trams, manufactured and maintained by Alstom in Spain.

About Alstom

Leading societies to a low carbon future, Alstom develops and markets mobility solutions that provide sustainable foundations for the future of transportation. From high-speed trains, metros, monorails, trams, to turnkey systems, services, infrastructure, signalling and digital mobility, Alstom offers its diverse customers the broadest portfolio in the industry. 150,000 vehicles in commercial service worldwide attest to the company's proven expertise in project management, innovation, design and technology. In 2021, the company was included in the Dow Jones Sustainability Indices, World and Europe, for the 11th consecutive time. Headquartered in France and present in 70 countries, Alstom employs more than 74,000 people. The Group posted revenues of €15.5 billion for the fiscal year ending on 31 March 2022.

Log onto www.alstom.com for more information.

In Spain Alstom has a long industrial and technological history in the country, with more than 3,000 employees, 4 industrial centres, 4 technology centres and a presence in more than twenty maintenance depots. Among others, Alstom has an industrial site in Barcelona dedicated to the manufacture all types of rolling stock, a propulsion systems factory in Bizkaia and, in Madrid, different technological innovation centres for the development of programmes and projects in the fields of railway safety, signalling, maintenance and digital mobility.

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