

Alstom completes one of Europe's largest Level 1 ETCS installations for Ireland

- Signalling modernised along 120km of track between Dundalk and Greystones
- Alstom paves the way for Ireland's DART+ fleet, while enhancing safety and interoperability

10 February 2025 – Alstom, global leader in smart and sustainable mobility, has successfully completed the installation of the European Train Control System (ETCS) Level 1 on the Dundalk to Greystones route, marking a significant milestone in Ireland's rail modernisation.

Spanning approximately 120km, this system overlay integrates new safety features and enhanced interoperability across the entire Dublin Area Rapid Transit (DART) commuter network and beyond, from Dundalk in the north to Greystones in the south.

The project, which has supported more than 50 roles globally – from the design stage in early 2022 to site testing in late 2024 – represents one of Europe's largest Level 1 ETCS installations. Delivered in partnership with Iarnród Éireann (Irish Rail), this achievement reinforces Alstom's commitment to delivering reliable, efficient and safe rail solutions that are tailored to Ireland's needs.

"The completion of the Dundalk to Greystones ETCS Level 1 project is a testament to our technical expertise and commitment to enhancing rail safety and efficiency in Ireland. This landmark achievement lays the foundation for the future of Irish rail, ensuring safer, smarter and greener transport for passengers," said Piers Wood, Managing Director for Ireland at Alstom.

He added: "Our teams have worked tirelessly to deliver this milestone, and we are all proud to support Ireland's journey towards a modernised, sustainable rail network."

Central to the railway's digital future, ETCS is a train control standard, based on in-cab equipment that is able to supervise train movements, including stopping the train. Information is received from balises in between the rails, of which more than 1,200 were installed as part of the work between Dundalk and Greystones.

Equipment – including 337 signals – was provided from Alstom's globally-proven trackside portfolio, with more than 450 Micro-Coder lineside electronic units (LEUs) overlaid on legacy equipment to provide enhanced safety and minimise disruption.

All equipment was configured, installed and tested in one year between October 2024 and November 2024. An IÉ 22000 Class – 22001 – was fitted out as the trial train. Safety was paramount throughout and the project completed without a lost time incident (LTI).

This transformational project is currently undergoing safety approvals with Iarnród Éireann and the Commission for Railway Regulation. Once operational, it will support the introduction of Ireland's next-generation fleet for the DART+ network.

Alstom has a ten-year framework agreement with Irish Rail for up to 750 new commuter rail cars as part of the DART+ programme, with firm orders for 37 five-car X'trapolis trains (including a 15-year support services contract).

Currently being manufactured at Alstom's Chorzów facility near Katowice in Poland, 31 of the ordered trains are battery electric multiple units (BEMUs) – a first for Ireland – while six are Electric Multiple Units (EMUs). The [first train from the fleet arrived in Dublin in November 2024](#), where it is undergoing testing before entering service next year.

DART+ is the transformative programme that will ensure train travel is at the heart of Ireland's sustainable transport network. Funded under the National Development Plan by the National Transport Authority, DART+ is an investment that will double the capacity and treble the electrification of the Greater Dublin network – Ireland's most populous suburban area – facilitating sustainable mobility and development to enhance quality of life in the capital and its surrounding counties.

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About Alstom

Alstom commits to contribute to a low carbon future by developing and promoting innovative and sustainable transportation solutions that people enjoy riding. 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. With its presence in 64 countries and a talent base of over 84,700 people from 184 nationalities, the company focuses its design, innovation, and project management skills to where mobility solutions are needed most. Listed in France, Alstom generated revenues of €17.6 billion for the fiscal year ending on 31 March 2024.

For more information, please visit www.alstom.com.

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