

Alstom-Bombardier consortium awarded contract to renew the metros of the Île-de-France region

29 November 2019 – The Alstom and Bombardier consortium has been awarded the contract to design and manufacture the new generation of metros for Île-de-France Mobilités and RATP¹. The confirmed part of the contract covers the delivery of 44 trains for a sum of over 530 million euros. This may be supplemented by an options exercise for a total of up to 410 trains. The respective share for Alstom and Bombardier amounts to approximately 265 million euros, or 50% of the total.

Initially, the new trains will be deployed on three Paris metro lines (3bis, 7bis and 10) and their entry into service will take place between 2024 and 2026. The options will then be used to equip 5 other lines (13, 12, 3, 8 and 7).

"I am honoured that Île-de-France Mobilités and RATP have chosen to trust us to renew travelling comfort on the historic lines of the Paris metro. Together, we want to turn the region into the world's showcase for the cutting-edge technologies of the French rail sector," says Jean-Baptiste Eyméoud, President of Alstom in France.

"The combined expertise of our two companies makes it possible to offer RATP and Île-de-France Mobilités a metro equipped with the latest on-board technologies that is part of tomorrow's modern mass transportation. Passengers will appreciate the special attention paid to the interior atmosphere, level of comfort and quality of on-board services. In addition to optimal performance and reliability, the MF19's innovation lies in its modularity and scalability adapted to the existing Paris network," says Laurent Bouyer, President of Bombardier Transport France.

Based on Alstom's and Bombardier's steel-wheeled metro solutions, the new trains will benefit from the latest technological developments to increase comfort, availability, accessibility and passenger information, as well as facilitate maintenance.

The fleet will consist of 30 five-car trains for line 10 (76m long) and 14 four-car trains for lines 7bis and 3bis (60.86m long). These first 44 trains will have a driver's cabin. Each train will be in "boa"² configuration with modern passenger information systems, large bay windows and themed, 100% LED lighting. The trains will also offer a pleasant, safe travel experience, with a heating and air conditioning system, USB sockets for charging mobile devices, video protection cameras throughout the entire train, etc.

The environmentally friendly new metros will be eco-designed (20% recycled materials used in their production), making them 98% recoverable at the end of their lifespan. They will consume 20% less energy than the trains currently in service (MF77) thanks in particular to 100% electric braking and 100% LED

¹ The order award is subject to contract and final confirmation.

² Trains with open interior circulation

lighting. These new trains will also make it possible to reduce maintenance costs by 15% compared to the MF01.

2,300 people at Alstom and Bombardier, including 700 engineers, will work on the project as part of the consortium. The two sites of Valenciennes (Alstom) and Crespin (Bombardier) will respectively assemble the complete trains to address the challenge of industrial capacity. Each site will be in charge of studies, design, train assembly, testing/validation and certification.

Alstom's sites will develop and produce the engines (Ornans), traction chains (Tarbes), on-board electronics (Villurbanne) and IT safety systems (Aix en Provence). Bombardier's site at Crespin will be responsible for designing the mechanical components of the trains, such as body shell design and the design and production of the bogies, as well as the air conditioning system and all components contributing to the design of the interior layout to ensure passenger comfort, such as lighting, seats, configuration of space and panelling equipment.

In total, this project will involve 9,000 jobs in the French rail sector.

About Alstom

Leading the way to greener and smarter mobility worldwide, Alstom develops and markets integrated systems that provide the sustainable foundations for the future of transportation. Alstom offers a complete range of equipment and services, from high-speed trains, metros, trams and e-buses to integrated systems, customised services, infrastructure, signalling and digital mobility solutions. Alstom recorded sales of €8.1 billion and booked orders of €12.1 billion in the 2018/19 fiscal year. Headquartered in France, Alstom is present in over 60 countries and employs 36,300 people. Its 8,900 employees in France provide a pool of expertise serving both French and international customers. Over 25,000 jobs are created in France with its 4,500 suppliers.

About Bombardier

Renowned as France's first industrial rail site, about 2,000 people work on Bombardier's facility in Crespin (Nord), including 500 engineers and managers. The company designs, builds and commissions a wide range of rolling stock for the French regions, SNCF and RATP. With over 68,000 employees across four business segments, Bombardier is a global leader in the transportation industry, creating innovative and game-changing planes and trains. Our products and services provide world-class transportation experiences that set new standards in passenger comfort, energy efficiency, reliability and safety. Headquartered in Montreal, Canada, Bombardier has production and engineering sites in 28 countries across the segments of Transportation, Business Aircraft, Commercial Aircraft and Aerostructures and Engineering Services. Bombardier shares are traded on the Toronto Stock Exchange (BBD). In the fiscal year ended December 31, 2018, Bombardier posted revenues of \$16.2 billion US. News and information are available at bombardier.com or follow us on Twitter [@Bombardier](https://twitter.com/Bombardier).

Contacts presse Alstom

Justine Rohée - Tel.: +33 (1) 57 06 18 81
justine.rohee@alstomgroup.com

Samuel Miller - Tel.: +33 (1) 57 06 67 74
Samuel.miller@alstomgroup.com

Audrey Mabru Tel. + 33 (1) 57 06 36 99
audrey.mabru@alstomgroup.com

Contacts presse Bombardier

Anne Froger : Tel +33 (0)6 07 78 95 38

Anne.froger@rail.bombardier.com

Relations investisseurs Alstom:

Julie Morel Tel. + 33 6 67 61 88 58

julie.morel@alstomgroup.com