

VOYAGES SNCF
LA DÉFENSE, 26 MAY 2021

SNCF VOYAGEURS & ALSTOM LAUNCH TGV M "POWER CAR"

Following the presentation of a TGV M body shell on 16 July 2020, Jean-Baptiste Eyméoud (President of Alstom France), Christophe Fanichet (Chairman and CEO, SNCF Voyageurs), and Alain Krakovitch (Managing Director, Voyages SNCF) are today unveiling the first TGV M power car in Alstom's Belfort workshops.

A NEW FACE FOR A NEW TRAIN



This eco-designed TGV, the first trainsets of which are scheduled to enter service in 2024, has benefited from the know-how of the best experts from Voyages SNCF and Alstom, brought together on a common platform during the definition and co-specification phases of the project. This new way of designing a more innovative and efficient train is a first in Europe.

Thanks to a more compact, simplified and rationalized architecture, TGV M, the fruit of Alstom's new Avelia Horizon range, benefits from reduced acquisition and maintenance costs for 20% more capacity.

The return of energy to the catenary during braking, eco-driving and the increasingly aerodynamic shape of the nose allow overall energy savings of around 20%.

4TH GENERATION TGV FEATURES

These new vehicles, which will also contribute to our OUIGO offer, introduce a number of major advancements:

- unprecedented modularity, making it possible to adjust the number of carriages according to precise market needs (7, 8, or 9), to transform 1st class

seating areas into 2nd class areas and reconfigure them by adding or removing seats or bicycle and baggage storage areas, etc.

- on-board floor space increased by 20%, amounting to 740 seats compared to 600 in current duplex carriages.
- ultra-competitive energy efficiency and carbon footprint per journey: with a 97% carbon recyclability objective, the TGV M's carbon footprint is the lowest on the market.
- access to online scalable services to meet passenger needs, such as on-board WiFi and complete real-time information across train areas.
- real-time provision of information on train parts, allowing preventive maintenance.
- 100% accessibility across carriage areas for all passengers. From the start, TGV M was the first TGV to be designed in close collaboration with wheelchair user (WU) associations and will be the first TGV to provide fully autonomous train accessibility for people with reduced mobility.

DESIGN COMPETITION RESULTS FOR THE TWO TRIAL TRAINS

Launched late September to create the lamination or coating of two trial trains, the event was also an opportunity for SNCF Voyageurs and Alstom to unveil the internal competition winners amongst 210,000 SNCF employees and Alstom France's 12,500 employees.



The two winners will be invited to participate in trials to be held in the Czech Republic and in France in 2022.

A NEW GENERATION OF TGVs TO INCREASE SUSTAINABLE MOBILITY

The TGV M is fully aligned with SNCF Group's environmental commitments presented in S.A. Voyageurs' *Planète Voyages* programme, which aims to reduce the carbon footprint and energy consumption across all its activities.

KEY TGV M FIGURES

- + **An environmental train**
 - -32% CO² emissions
 - 97% of train materials can be recycled
- + **An energy-efficient train**
 - -20% energy consumption for more efficient aerodynamism and motorisation
 - -20% acquisition costs
 - -30% maintenance costs
- + **A 100% online train**
 - Optimised on-board Internet network capable of integrated all future technical improvements
- + **SNCF, a major territorial economic player**
 - 100% French design

About Voyages SNCF

Voyages SNCF is SNCF Voyageurs' operator for long-distance journeys serving the most people. It is the high speed reference in both France and Europe.
TGV INOUI is the promise of a new travel experience which brings together comfort, services, and connectivity with OUIGO, a low-cost, no-frills travel offer.
Voyages SNCF also includes Intercités, a day train and a long distance night train offer on traditional rail traffic, providing connections on Trains d'Équilibre du Territoire (TET) Intercités 100% ECO trains.
To provide end-to-end travel access to all for every preferences, Voyages SNCF has developed mobility offers in addition to its high-speed trains. Door-to-door iDVROOM and Mon Chauffeur services make it possible to start and end journeys using car sharing or taxi/chauffeur car.
International offers such as Eurostar, Thalys, TGV Lyria, TGV France-Italy, or the DB-SNCF and Renfe-SNCF cooperation enable all our travellers to cover Europe.
With nearly 400 high-speed trains (TGV, TGV INOUI and OUIGO) Voyages SNCF owns Europe's largest fleet. Every day, over 700 TGVs cover nearly 10,000 kilometres of lines, including 2,000 kilometres of high-speed lines across all of France, serving 230 stations.
In 2019, Voyages SNCF transported over 140 million passengers in Europe, and since 1981, over 2 billion clients have travelled with TGV.
All our carrier offers can be found on [OUI.sncf](https://www.oui.sncf).
+ For further information: [sncf.com](https://www.sncf.com)

About Alstom

Leading societies to a low carbon future, Alstom develops and markets mobility solutions that provide the sustainable foundations for the future of transportation. Alstom's products portfolio ranges from high-speed trains, metros, monorail, and trams to integrated systems, customised services, infrastructure, signalling and digital mobility solutions. Alstom has 150,000 vehicles in commercial service worldwide. With Bombardier Transportation joining Alstom on January 29, 2021, the enlarged Group's combined proforma revenue amounts to €14 billion* for the 12-month period ended March 31, 2021. Headquartered in France, Alstom is now present in 70 countries and employs more than 70,000 people. Its employees in France total approximately 12,500, providing a pool of expertise to serve French and international clients. Approximately 30,000 jobs are created in France amongst its 4,500 French suppliers. www.alstom.com
*unaudited proforma

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