

The Citadis of Tours

A decidedly different tram

In a bid to provide a competitive, sustainable alternative to cars, the Tours Metropolitan Area Inter-Municipal Public Transport Association (SITCAT) has decided to launch its first tramway line (extending 15km with 29 stations) and has chosen Alstom and its Citadis to transport the expected 54,000 passengers a day.



The Citadis in Tours is relying on its exterior livery, featuring a "Loire Waters Mirror"

KEY BENEFITS

- Passenger capacity is 5 times greater than in a bus
- Reduced energy use and CO2 emissions
- APS, ground-level power supply to preserve the City of Tours' heritage
- Total accessibility
- Designed to interact with the urban environment

Country:
Project:

France

The contract signed by the SITCAT and Alstom in September 2010 involves the supply of:

- 21 Citadis trams of 43 metres long
- APS, ground-level power supply system, designed by Alstom over a stretch of 1.9 km through the Tours city centre and across the Loire river.

SCOPE

The tramsets were delivered between September 2012 and July 2013. The line started operating on August 31st, 2013. 8 Alstom facilities in France and 1 in Italy worked on this project: La Rochelle for design, Reichshoffen for assembly, Ornans for engines, Le Creusot for bogies, Sesto, Italy and Tarbes for drive chain elements, Villeurbanne and Saint-Ouen for embedded electronics, and Vitrolles for APS.

The project has generated 500 direct jobs and about 1,500 jobs at our partners.

THE CHALLENGES

As the leading urban hub in the Centre Region, the Tours Conurbation Authority hopes that this decision will foster exchanges and travel across its area thanks to urban transport intermodal facilities.

Tours is a city steeped in history and as such it had an obligation to preserve its heritage; this is why it chose Alstom's APS, a solution that has been successfully operating in several cities for over 10 years.

With over 1,700 trams sold worldwide and 500 million km travelled, Citadis is asserting itself as the foremost reference in the global tramway market.

TECHNICAL SPECIFICATIONS

Number of modules	7 modules
Passenger capacity	280, the equivalent to 5 buses
Length/Width/Height	43m/2.4m/3.4m
Interior layout	The interior features lighting varies according to outdoor luminosity: softer in summer and warmer in winter.
Design	The Design & Styling teams at Alstom Transport have adapted a design by the "Ensemble(s) la Ligne" Collective, managed by the RCP design firm. The exterior livery will actually represent a "Loire Waters Mirror" to reflect the city's environment.
APS	Alstom has successfully met the decisive criterion which involved preserving the historical heritage of the City of Tours. A third rail sunk into the ground runs along the track, allowing to do away with overhead cables. It extends for 1.9 km from Place Choiseul to the Tours railway station. 12 million kilometres already have been travelled worldwide by our tramways using APS.
Safety	CCTV is in operation in every tram.
Environment	Up to 98% recyclable, the latest generation of Alstom trams also consumes 10% less energy thanks to the use of composite materials and to an improved traction system.



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