

Eastern extension Paris Metro Line 11:
NGE, lead of two major works packages for RATP,
celebrates the inauguration of the line.

Paris, June 13, 2024 – **The Minister of Transport, Patrice Vergriete, accompanied by Jean Castex, CEO of the RATP Group, inaugurated the eastern extension of Paris Metro Line 11 on Thursday, June 13, 2024, in the presence of representatives from NGE. This 6 km extension connects Mairie des Lilas to Rosny – Bois-Perrier, East of Paris. The NGE Group was the lead contractor for two major package: civil engineering, which involved the construction of four new metro stations (La Dhuys, Montreuil-Hôpital, Place Carnot, and Serge Gainsbourg), three ancillary structures, the excavation of 3.8 km by a tunnel boring machine, and platforms excavated using traditional methods, as well as railway systems, covering the entire line. This extension will benefit 85,000 daily passengers and will enable to shorten travelling distances to the centre of Paris.**

The inauguration of the extension of Metro Line 11 to the east of Paris took place on Thursday, June 13, in the presence of Patrice Vergriete, Minister of Transport, Valérie Pécresse, President of the Île-de-France region, Adina Valean, European Commissioner for Transport, Stéphane Troussel, President of the Seine-Saint-Denis department, Jean-François Monteils, Chairman of the Board of the Société des Grands Projets, Jean Castex, CEO of the RATP Group, as well as the mayors of the six municipalities traversed.

The first inaugural train ran along the entire new line. The eastern extension project of Paris Metro Line 11 from Mairie des Lilas to Rosny – Bois-Perrier allows residents of the six municipalities—Lilas, Bagnolet, Montreuil, Romainville, Noisy-le-Sec, and Rosny-sous-Bois—to access a new mode of sustainable, reliable, and responsible transport. For this project led by the RATP Group, NGE was the lead contractor for two major packages of the project.

Civil engineering works in an ultra-urban environment

The civil engineering package included the construction of four new stations (La Dhuys, Montreuil-Hôpital, Place Carnot, and Serge Gainsbourg) and three ancillary structures (ventilation and emergency access, Fort-de-Noisy, Demi-lune, and Emile Genevoix), as well as the excavation of a 3.8 km tunnel section and a 170 m covered trench.

A particular feature of this project is the use of traditional excavation methods for certain structures. The stations are generally built as rectangular boxes, extending up to 30 meters deep. However, for *La Dhuys* and *Place Carnot* stations, due to limited surface space occupied by buildings, roads, and networks, a different approach was necessary. To accommodate the passenger platforms, two horizontal caverns were excavated, measuring 50 and 60 meters in length, respectively. Additionally, some connections between stations and secondary accesses were also built in the same manner. This approach minimized impacts on residents, limited traffic disruptions, and avoided demolishing surrounding buildings.

The tunnel was excavated by the tunnel boring machine named 'Sofia', which completed this section between January 2020 and July 2021, now linking *La Dhuys* and *Serge Gainsbourg* stations. This multi-disciplinary project engaged up to 530 employees at the peak of activity and utilized the Group's various expertise areas, including earthworks, civil engineering, underground works, and certain building finishes (masonry, painting, installation of fire barriers, guardrails, metalwork, etc.).

Precision logistics for railway works

Through its railway subsidiary TSO, NGE led the consortium responsible for track laying over the entire 6 km extension and the maintenance workshop. Due to the pneumatic nature of the metro Line 11 and the constrained working environment of the viaduct and tunnels, a specific organization was implemented for the installation of rails, tracks, and guide bars, based on crane logistics. Specialized equipment such as tower cranes, Material Placement Platforms, and Multi-Purpose vehicles were used. These vehicles mechanized and facilitated tasks like transporting concrete and 18-meter profiles, improving safety and working conditions for employees. Introducing a new type of guide bar on the line also required adjustments and the provision of specific parts. The project had 160 employees at its peak.

The eastern extension of Line 11, completed as part of the Grand Paris Express, will enhance the urban transport network in eastern Paris and reduce CO2 emissions by approximately 3,200 tons per year by shifting motorists to the metro.

« We are proud to have brought our dual expertise in civil engineering and railways to the RATP Group for one of their largest construction projects in the last decade. The success of the East extension of Line 11 confirmed our ability to assume the role of lead contractor for particularly complex and ambitious infrastructure projects, especially in the field of low-carbon mobility, which is one of our main development areas. This collaboration, started in 2016 with the RATP Group, has also been a springboard for us towards a new major success, winning the largest contract in NGE's history: the design-build contract for lot 2 of Line 15, western section, of the Grand Paris Express, valued at approximately 1.38 billion euros, and for which NGE is the lead contractor » **Orso Vesperini**, Deputy Managing Director at NGE.

Key numbers:

Civil engineering consortium: NGE (leader) – Demathieu Bard – Implenia – Pizzarotti LLC

- 3.8 km of tunnel excavated by a tunnel boring machine
- 4 new stations: La Dhuys, Montreuil-Hôpital, Place Carnot and Serge Gainsbourg
- 3 ancillary structures: Demi-lune, Fort-de-Noisy and Emile Genevoix
- 480 m of traditional gallery, including 110 m of cavern accommodating the platforms
- 170 m of covered trench
- 530 employees at the peak of activity

Rail systems consortium: TSO, rail subsidiary of the NGE Group (lead) – ETF

- 14 km of track
- 160 employees at the peak of activity

About NGE - www.nge.fr/en/

NGE – New Generations of Entrepreneurs – the fourth largest construction group in France, builds major infrastructures and urban or local projects. With its expertise in financing, design, construction, and maintenance, the Group is a key player in delivering infrastructures that address the economic and ecological challenges of the territories. Its entrepreneurial drive is supported by a strong employee ownership structure (the founders, management, and employees hold 72% of the Group's capital) reinforced by Montefiore Investment, a leading French investment first (28% of the capital). With a turnover of 4 billion euros, NGE operates in 17 countries, supporting private and public clients in financing, designing, and building their transition projects in water, mobility, urban renovation, energy, and telecommunications. NGE's 23,000 employees are proud to contribute to building infrastructures that change the world.

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