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Press Release

VINCI Construction, in collaboration with FAYAT Group, completes a world first: a low-carbon roadworks project using 100% electric equipment.

- Equipment decarbonisation: a world first on a roadworks site
- All-electric, rechargeable, silent equipment, with zero in situ CO₂ emissions

Last July, VINCI Construction carried out its first roadworks project using 100% electric equipment, as part of the works to resurface Rue du Lieutenant-Petit-Le-Roy in Chevilly-Larue (Val-de-Marne). The project was carried out by Emulithe (a VINCI Construction subsidiary), and involved making the street one-way and creating a cycle path. It is further evidence of VINCI Construction's commitment to reducing the carbon footprint of its operations and limiting noise pollution in urban areas.

Following two days of familiarisation and training, Emulithe's teams successfully used – as part of a trial – a 100% electric, rechargeable and silent sprayer, paver and roller, drastically reducing greenhouse gas emissions and noise pollution compared with those produced by conventional worksite equipment. This was the first time that all-electric models of these three essential roadworks machines had been used on a single worksite. This full-scale trial owes its success to the collaboration with the FAYAT Group, manufacturer of the electric sprayer, paver and roller used on this worksite.

All-electric equipment used on the site

THE BOX, from Secmair, a **sprayer designed squarely with decarbonisation in mind**.

It boasts excellent range and insulation, great usability and simple operation – all designed, engineered and manufactured in France.

The SD1800W e is **the first mass-produced electric urban paver**, manufactured exclusively by Dynapac. Its 98-kWh battery provides long range and fast recharging. Its low noise level, zero fine-particle emissions and zero smoke emissions make it ideal for urban use and mean it has a much lower carbon footprint.

The BOMAG BW 100 ADe-5 **electric roller** is rechargeable and equipped with the best battery, motor and inverter technology available today. The manufacturer has carefully integrated all these components to give the user an unparalleled driving experience. Its silent operation and simple information display on the dashboard give drivers excellent visibility and an instant feeling of being in control, making their working day effective and stress-free.

Worksite carbon footprint

The worksite provided an opportunity to test the performance of these new electric machines – identical to their combustion-engined equivalents – and how long their batteries would last during a day’s work. It also confirmed the significant reduction in CO₂ emissions, with this low-carbon worksite saving 0.25 tonnes of CO₂-eq per day compared with a worksite using conventional machines.

Decarbonisation of roadworks

VINCI Construction has been working for a number of years on implementing measures and developing management tools¹ aimed at reducing CO₂ emissions by 40% by 2030. The use of electric-powered vehicles, light equipment, excavators and even lorries on worksites is growing.

VINCI Construction’s trial on a roadworks site of 100% electric versions of three key roadworks vehicles is a further step in its ongoing search for innovative solutions to improve the energy and environmental performance of its operations, with the aim of gradually integrating low-carbon vehicles into its fleet.



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¹ E-Drive: An application that collects data and variables from an asphalt plant, allowing real-time adjustments to be made to improve energy balances.

E-Track: Real-time monitoring of energy consumption by equipment.

Eleneo: A platform for monitoring energy consumption on industrial sites, helping operators to optimise their energy consumption and see how their choices affect CO₂ emissions.

NEXT: A CO₂ tracking tool, used to produce an initial emissions report for each site in a given year, and then to plan measures to be taken over the next 10 years.

About VINCI Construction

VINCI Construction is one of the world's leading construction companies in transport infrastructure, buildings, networks and urban development. VINCI Construction is organised around a network of local companies, speciality networks and a specific expertise in major infrastructure projects. VINCI Construction companies are involved in the full life cycle of a project (design, construction and maintenance). Present in more than 100 countries, VINCI Construction's 1,350 business units employ 116,000 people who completed more than 70,000 projects and generated revenue of €29.3 billion in 2022.

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About the FAYAT Group

The French and family-owned FAYAT Group is present in 170 countries and employs more than 22,000 people. FAYAT supports its customers worldwide with innovative and sustainable solutions for the construction market, and in the seven major activities where it has developed: Civil Works, Foundations, Building, Energy Services, Metal, Pressure Vessels and Road Equipment. In 2022, the Group generated sales of €5.3 billion.

To find out more about the FAYAT Group: <https://fayat.com>

BOMAG – Market leader in the field of compaction technology, BOMAG manufactures soil, asphalt and refuse compaction equipment. Our product range also includes stabilisers/recyclers, cold milling machines and paver finishers.

BOMAG is a leader in compaction measurement, documentation and control systems, both during and after construction works. BOMAG has been part of the FAYAT Group since 2004.

Dynapac – Dynapac is a leading supplier of sustainable road construction solutions. Dynapac supplies its customers with innovative compaction, asphalt paving and light equipment. Dynapac has been part of the FAYAT Group since 2017.

Secmair – European leader in road maintenance solutions, Secmair specialises in designing and manufacturing road maintenance machinery. Innovation, quality, design and service have been the keys to Secmair's success for over 100 years. Secmair has been part of the FAYAT Group since 2008.

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