

GCK and Keolis sign a partnership agreement to trial a hydrogen-powered coach

- **Attending the Hyvolution exhibition from 30 January to 1 February 2024, GCK and Keolis have announced a partnership agreement to trial a coach equipped with an internal combustion engine converted to run on hydrogen.**
- **Supplied by mobility operator Keolis, the vehicle is an IVECO Crossway “normal floor” coach, with technical development and conversion carried out by GCK Mobility with support from Solution F. The two subsidiaries of the GCK group are converting the Cursor 9 engine from diesel to hydrogen.**
- **The coach is a demonstrator for the technological and operational expertise of both groups. The vehicle trials are scheduled for the first quarter of 2025.**

Paris, 30 January 2024 – GCK and Keolis have signed a partnership agreement to trial a coach equipped with an internal combustion engine converted to run on hydrogen. Presented on the GCK stand at the Hyvolution trade show in Paris, this trial is an opportunity for both groups to test solutions that could help to decarbonise transport.

The trial involves an IVECO Crossway coach supplied by Keolis. Technical development will be carried out by two subsidiaries of the GCK group: GCK Mobility is adapting the vehicle, and Solution F the engine (a Cursor 9). The operation will take place at GCK Mobility's new workshops in Cournon-d'Auvergne (Puy-de-Dôme) in central France.

The primary goal of the partnership is to validate the prototype and test its performance and operation. The trial will also enable Keolis and GCK to explore a new solution meeting the criteria for vehicles with zero CO₂ emissions, which they can then offer to their respective clients. It will also involve reusing 100% of the equipment in the existing coach, helping to develop a circular economy. Finally, it constitutes a new alternative for decarbonising mobility.

The trials of the vehicle are scheduled for the first quarter of 2025 before submission for official approval. The Keolis Group will offer its clients the opportunity to test this alternative solution for the energy transition.

Éric Boudot, chairman of GCK: *“This partnership with Keolis will enable us to test hydrogen-powered engine technology once again, supplementing the retrofit solutions that have already been a success for the group. A solution that corresponds to different types of use case: greater power, more suitable for more demanding applications.”*

Pierre Gosset, group director, industrial division at Keolis: *“With this trial, we are taking part in the development of a technology for the future. Keolis guides its clients through their energy transition and their decision-making so that they can benefit from the most suitable solution for their community. This trial, which is part of the Group's low-carbon journey, reflects our ambition to develop innovations that will contribute to decarbonising public transport.”*

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ABOUT GCK

Based in Savoie and Puy-de-Dôme, GCK is a group of industrial companies offering technological solutions to accelerate the decarbonisation of transport, in particular through the use of hydrogen.

The group is organised around 3 divisions:

- A Technology & Industry cluster, which brings together our companies dedicated to developing innovative technologies for tomorrow's mobility: lithium-ion batteries, electric motors, hydrogen combustion engines and fuel cells.
- Mobility, which brings together all our activities dedicated to the preparation, conversion and testing of clean vehicles. In particular, we are recognised experts in the electrical and hydrogen retrofitting of all types of vehicle: cars, boats, coaches, buses, lorries, snow groomers, refuse collection vehicles and construction machinery.
- An Energy Division dedicated to supplying green energy - we are now capable of producing, storing and distributing green energy anywhere in the world.

www.gck.co

About Keolis

Keolis is a pioneer in developing public transport systems and works alongside public authorities who want to enhance shared mobility systems to grow the appeal and vitality of their regions. A world leader in operating automated metro and tramway systems, Keolis and its partners and subsidiaries Cykleo, EFFIA, Hove, Keolis Santé, Kisio and support the core business with innovations offering new and bespoke shared mobility solutions for modes including trains, buses and coaches, trolleybuses, ondemand transport, transport for people with reduced mobility, driver and sea shuttle services, bikes share services and long-term rental, car sharing and fully electric driverless shuttles. In France, Keolis is the second largest provider of parking management solutions through its subsidiary EFFIA, and the country's leader in medical transport since the creation of Keolis Santé in July 2017. The Group is 70%-owned by SNCF and 30%-owned by the Caisse de Dépôt et Placement du Québec (Quebec Deposit and Investment Fund) and employs 68,000 people in 13 countries*. In 2022, it posted revenue of €6.7 billion.

* Australia, Belgium, Canada, China, Denmark, France, India, the Netherlands, Qatar, Sweden, the United Arab Emirates, the United Kingdom, and the United States.

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