

Press Information



FEV Presents Future H2-Mobility Solutions During HyVolution Exhibition at Paris Event Center Porte de la Villette

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Saint Quentin En Yvelines, October 2021 - FEV France, member of France Hydrogène, participates in the HyVolution exhibition, the most important hydrogen event in France. FEV, one of the globally leading engineering providers, will showcase its solutions at Booth E15 on 27-28 October. At HyVolution, 200 key players in the hydrogen sector are covering a broad value chain to address all energy, industry and mobility related challenges, including production, distribution, storage, services and solutions for CO₂-neutral hydrogen markets.

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FEV is a leader in fuel cell and hydrogen engine technologies development. The company's solutions have already been successfully applied to the automotive, bus, truck, off-road, marine, rail and aeronautical markets. FEV is involved in the entire process, from the definition of the concept, through integration in the vehicle, to production. This includes:

- Benchmarking
- Simulation
- Design
- Safety systems
- Software development
- Calibration, testing and certification

At HyVolution, FEV will showcase two examples of the company's hydrogen solutions.

BREEZE

FEV developed a fuel cell range extender and integrated it into an electric subcompact vehicle, a Fiat 500, despite its limited available space for the installation of the system. The development was supported by the German region of North Rhine-Westphalia and the European Union.

Benchmarking

FEV's benchmarking experts carried out a study analyzing each component, system, and sub-system of the Toyota Mirai to provide in-depth knowledge on the vehicle's solutions, how and why they work. To understand its operation even better, test campaigns on each component have been conducted, too. At FEV's booth, a so-called exploded view of the fuel system is on display.

GCK and FEV partnership: En route to the Dakar Rally

FEV supports French Green Corp Konnection (GCK) to design, develop and integrate its own high-power fuel cell system, whose capacity will be demonstrated in motorsport before being deployed in other industrial applications. This announcement confirms the determination of both partners to become major players in the transition to zero-emission mobility.

On March 25, 2021, the two companies signed an agreement to develop an on-board fuel cell system with a capacity of 200 kW, one of the most powerful units on the market. The development of this fuel cell system will initially accompany the breakthrough project launched in January during the Dakar Rally by GCK Motorsport, GCK's sports and media flagship. This project will become the first to present a hydrogen-powered vehicle in demonstration mode in January 2022 before entering the competition in 2024. With this step, the team led by Guerlain Chicherit supports the organizer of the Dakar Rally, ASO, in its commitment to promote an environmentally sustainable event.

FEV France investments thanks to France Relance Plan

Within the framework of the France Relance recovery plan, FEV France has recently invested in a test bench dedicated to fuel cell system tests that can reach up to 200 kW. Also, at its Saint-Etienne-du-Rouvray

(Seine Maritime) site, the company has modified two engine test benches to make them compatible with testing of thermal engines using hydrogen as a fuel. FEV France is one of the winners in the automotive sector selected as part of this project initiated by the French government. The project's objective is to support the investments of leading companies with dedicated funds, in order to accelerate the modernization of the automotive and aeronautics industries and preserve know-how and skills around ecology, competitiveness and cohesion.

About FEV

FEV is a leading independent international service provider of vehicle and powertrain development for hardware and software. The range of competencies includes the development and testing of innovative solutions up to series production and all related consulting services. The range of services for vehicle development includes the design of body and chassis, including the fine tuning of overall vehicle attributes such as driving behavior and NVH. FEV also develops innovative lighting systems and solutions for automated driving and connectivity. The electrification activities of powertrains cover powerful battery systems, e-machines, and inverters. Additionally, FEV develops highly efficient gasoline and diesel engines, transmissions, EDUs as well as fuel cell systems and facilitates their integration into vehicles suitable for homologation. Alternative fuels are a further area of development.

The service portfolio is completed by tailor-made test benches and measurement technology, as well as software solutions that allow efficient transfer of the essential development steps of the above-mentioned developments, from the road to the test bench or simulation.

The FEV Group currently employs 6,300 highly qualified specialists in customer-oriented development centers at more than 40 locations on five continents.

About FEV France

With more than 650 employees in France, FEV offers its engineering expertise, services, and equipment to the development of innovative powertrains, whether thermal, hybrid or electric. The company offers state-of-the-art solutions that are increasingly environmentally friendly, with high standards of quality, on-time delivery, safety, performance, and reliability. FEV is also the privileged partner of the major participants in the French transport industry: manufacturers, equipment suppliers, test laboratories, schools, and universities.