

OPmobility showcases its technologies to decarbonize mobility at ACT Expo in Las Vegas

From 20 to 23 May 2024, OPmobility will be at the Advanced Clean Transportation (ACT) Expo in Las Vegas, a major event focused on decarbonizing fleets and heavy mobility. The Group will be showcasing its line-up of hydrogen and battery electrification solutions for trucks, buses and commercial vehicles.

You can find OPmobility on stand no. 1709, Las Vegas Convention Center.

Fuel cell system for trucks

The 150kW FCM (Fuel Cell Module) is a next-generation fuel cell system developed by OPmobility for use in heavy trucks of 16 tonnes and over. It includes the NM12 Twin fuel cell, developed by its EKPO Fuel Cell Technologies joint venture, and 160 other components that manage all associated functions, including thermal control, electric and electronic management, and the supply of air and hydrogen. The system's innovation lies in its ultra-compact format, durability and reliability. The 150kW FCM takes hydrogen and oxygen from the air to instantly generate electricity used to power the vehicle's electric motor. Several systems can be connected together to deliver 300kW or 450kW of power.



High-pressure 304-liter hydrogen vessels for pick-up trucks

The 304-liter hydrogen vessel (type 4, 700 bar, made from an inner plastic liner covered with carbon fiber) is an application for vehicles such as pick-up trucks in the USA. The 304-liter high-pressure hydrogen vessel holds approximately 12 kilos of hydrogen and is used to store the energy needed to power a vehicle. A system can include several vessels to increase the vehicle's range.

Hydrogen storage system for light commercial vehicles



The hydrogen storage system for light commercial vehicles comprises three or four 47-liter high-pressure hydrogen vessels, each holding approximately 2 kilos of hydrogen. Positioned within the vehicle floor, they hold a total of 6 to 8 kg of hydrogen giving a range of almost 500 kilometers.



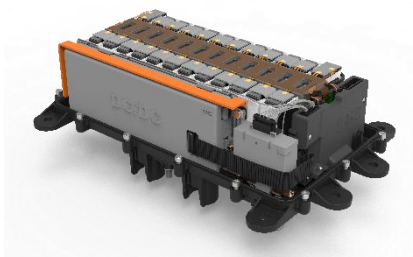
High-voltage battery system (750V)

The high-voltage power battery system is specially designed to meet the needs of all forms of heavy mobility: buses, trams and trucks. This ultra-powerful battery can be recharged quickly without compromising its service lifetime. They use LTO lithium-ion electrochemistry suitable for electric and hybrid vehicles as well as hydrogen vehicles as back-up for the fuel cell system to extend its lifetime and improve overall vehicle performance.



OPmobility offers a diversified portfolio of high-voltage batteries for hybrid and electric mobility as well as lithium-ion battery solutions (NMC or LFP) for trains, buses and trucks.

48V battery



The 48V battery from OPmobility is a battery for mild hybrid cars and hybrid electric trucks. This power battery uses NMC lithium-ion cells and recharges itself, mainly when decelerating and braking. Electrical energy is used to assist the internal combustion engine, particularly when accelerating, helping to cut tailpipe CO₂ emissions by up to 15%.

About the Advanced Clean Transportation (ACT) Expo

ACT Expo is North America's largest conference and expo showcasing solutions that drive economic and environmental fleet sustainability. Annually, ACT Expo combines the best educational content in the industry with a massive exhibit hall showcasing the most innovative technologies on the market today. The annual event is produced by Gladstein, Neandross & Associates (GNA), the leading North American consulting firm specializing in market development for low- and zero-emission transportation technologies, infrastructure, and ultra-low carbon fuels for commercial transportation.

About OPmobility

OPmobility (formerly Plastic Omnium) is a world leader in sustainable mobility and a worldwide technology partner to actors from every mobility sector. Innovation-driven since its foundation in 1946, OPmobility has five complementary business groups offering its customers a wide range of solutions: intelligent exterior systems, customized complex modules, lighting systems, energy storage systems, and battery and hydrogen electrification solutions. OPmobility's customers also benefit from OP'nSoft, its inhouse software development specialist.

With €11.4 billion economic revenue in 2023 and an international footprint of 152 plants and 40 R&D centers, OPmobility relies on its 40,300 employees to meet the challenges of making mobility more sustainable. OPmobility is listed on Euronext Paris, compartment A. It is eligible for the Deferred Settlement Service (SRD) and is part of the SBF 120 and CAC Mid 60 indices (ISIN code: F FR0000124570). www.opmobility.com



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