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News

Innovation and Industry

Sustainable mobility

Electrified Mobility



Cambridge GaN Devices (CGD), the fabless, clean-tech semiconductor company that develops a range of energy-efficient GaN-based power devices to make greener electronics possible, has signed an agreement with IFPEN to develop an innovative automotive inverter using advanced GaN devices.

Gaetan Monnier, Mobility DU Director at IFPEN, « This partnership with CGD is a key element for our future activities in power electronics for e-mobility, specifically for next generation of inverters where a technological step is required to reduce size and increase power density levels while challenging the cost. We count on the cooperation with this young and dynamic, extremely innovative company to address the ambitious challenges critical to the future of e-mobility industries »

Dr Giorgia Longobardi, Co-founder & CEO at CGD : «Technological innovation is central to all IFPEN's activities. Therefore we are particularly excited that IFPEN has chosen CGD's ICeGaN™ GaN HEMTs in this new automotive inverter design. IFPEN also shares CGD's belief that close partnerships with key players are essential to the success of any project, so we are proud to be part of this program »

The partnership between IFPEN and CGD combines two highly complementary areas of expertise. IFPEN understands the automotive market and its performance targets. IFPEN possesses a strong position in inverter and software development, with in-depth knowledge of the algorithms and equipment required.

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About Cambridge GaN Devices Cambridge GaN Devices (CGD) is a fabless semiconductor company spun-out by Professor Florin Udrea and Dr Giorgia Longobardi from Cambridge University in 2016 to exploit a revolutionary technology in power devices. Our mission is to bring innovation into every day life by delivering effortless energy-efficient GaN solutions. CGD designs, develops and commercialises GaN transistors and ICs enabling a radical step change in energy efficiency and compactness and is suitable for high volume production. CGD's ICeGaN™ technology is protected by a strong IP portfolio which constantly grows based on the company's leading innovation skills and ambitions. In addition to the multi-million seed fund and Series A private investments, CGD has so far successfully secured four projects funded by iUK, BEIS and EU (Penta). The technical and commercial expertise of the CGD team combined with an extensive track record in the power electronics market has been fundamental in early market traction of its proprietary technology.

About IFPEN

IFP Energies nouvelles (IFPEN) est un acteur majeur de la recherche et de la formation dans les domaines de l'énergie, du transport et de l'environnement. Qu'il s'agisse des concepts IFP Energies nouvelles (IFPEN) is a major research and training player in the fields of energy, transport and the environment. From scientific concepts within the framework of fundamental research, through to technological solutions in the context of applied research, innovation is central to its activities, hinged around four strategic directions: climate, environment and circular economy – renewable energies – sustainable mobility – responsible oil and gas.

The aim of IFPEN's R&I programs is to overcome existing scientific and technological challenges in order to develop innovations that can be used by industry. IFPEN has developed, since 20 years, a strong expertise in the field of vehicle electrification. More than 45 patents have been deposited in the fields of electrical motors design, advanced control laws, and optimized power electronics systems for traction and energy generation and recovery. In the field of sustainable mobility, power electronics is a key factor for automotive electric powertrains and IFPEN know-how covers the development domains from specification to operational validation tests on the electric motors.

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