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Nio"s battery supplier WeLion has delivered the first of its advanced battery cells to the Chinese electric car maker. Nio had promised to start deliveries of EVs with its 150kWh battery packs in the first half of this year after revising deadlines. And, shock horror, it"s actually happening.

The semi-solid-state battery cells are more energy dense than those before it. Featuring a solid electrolyte, a silicon graphite composition anode and a nickel-heavy cathode, the cells have an energy density of 360Wh/kg. To give that some context, Tesla"s 4680-cell battery - considered the best on the market for a long time - has 272-296Wh/kg.

The Nio ET7 is one of the models expected to feature a giant battery, capable of over 600 miles of range on one charge. It"s a veritable challenger to the Mercedes EQXX and Lucid Air, set to arrive in Europe later in the summer.

The ET7 is considered a direct rival to Tesla"s Model S saloon. Yet, if range claims are officially acknowledged by the WTLP, Nio could leave the US EV maker, Polestar and Merc - where the 2 and EQS boast over 400 miles - behind at the charging hub.

Qin Lihong, president of Nio, has commented that the pack won"t be cheap, stating that costs are equivalent to the ET5, one of the models coming to Europe. All Nio battery packs are capable of charging via a cable and also being swapped out, but WeLion executives are keen to point out Nio isn"t its only customer.

Enlighten Innovations Inc. ("Enlighten" or "the Company"), a developer of next-generation energy solutions is pleased to introduce Project Infinity, a 600kWh energy storage demonstration unit that will be located at the Company"s current facility in Alberta, Canada.

Enlighten"s battery combines three technical breakthroughs: a proprietary catholyte system and Infinite Anode(TM) technology both of which are enabled by a NaSICONTM solid state separator.

Enlighten"s proprietary catholyte system uses low-cost, high-energy density commodity chemicals that are readily available around the world. The Company"s Infinite AnodeTM overcomes the limitations of metal plating on the anode in traditional hybrid flow batteries by continuously moving sodium metal across and away from the anode. The combination of these three technical breakthroughs results in a highly flexible and completely decoupled "power - energy" storage solution to support the global energy transition.

"Complete decoupling of power and energy at low cost is a game-changer, said Enlighten"s Director of Engineering, Mykola Makowsky. "Project Infinity will allow end users to validate multiple use cases, including short, intra-day energy shifting of a few hours to multi-day shifting of several hundred hours

storage, and provide customers with an inexpensive option to expand energy capacity to meet specific market needs."

Steve Reynish, President and CEO, Enlighten added, "Long-duration energy storage systems have become essential to accelerating our net-zero energy future. This demonstration project is an exciting opportunity for interested parties to evaluate Enlighten"s highly flexible and configurable technology applicable to a broad range of commercial sized systems."

Enlighten Innovations Inc. is a leading clean-energy technology company headquartered in Alberta, Canada, and Denver, Colorado. The team has extensive expertise in building companies and large projects and has deep experience in sodium battery technology and applications. We have been engaged in the research and development of clean energy technology for decades, working to meet ever-changing global energy needs and accelerate a net-zero world.