

Press release - 07/12/2021

**Ultra-fast charging and discharging batteries:  
Startec and Tiamat announce their partnership to deploy  
Sodium-ion power battery technology in  
the design of industrial electronic solutions and energy storage.**

*Main markets: hybridization (automotive, rail and aero), fast charging, defense, stationary power applications*

Amiens, December 7th, 2021

The signing of the MOU - Memorandum of Understanding - between Tiamat Energy and Startec will accelerate the commercial deployment of Tiamat's Sodium-ion power technology integrated into battery packs by Startec group.

The two partners will integrate Tiamat sodium-ion power battery cells into modules and packs designed to meet the needs of their Customers. The intrinsic qualities of Tiamat's battery cells combined with the BMS (Battery Management System) electronic charge and discharge control system of BMS PowerSafe, a Startec group company, and the pack battery assembly of Neogy, a Startec group company, will meet market demand in terms of very high power, fast charging and discharge time, superior safety by ensuring a unique industrial sovereignty due to the absence of traditional raw materials need compared to reference technologies (Li, Ni, Co free).

For Xavier PETITDIDIER, Startec Group's Director of Innovation: *"Neogy's battery expertise and BMS PowerSafe's BMS expertise will transcend TIAMAT cells that offer unparalleled performance in terms of power / safety"*.

*"This agreement is part of our market entry strategy, which aims to enter into partnerships with major Customers in each of our identified segments. Startec know-how in module/pack installation and power control electronics will allow us to offer complete packages corresponding to Customer needs in the mobility sector (automotive, rail and aeronautics) and stationary storage"* comments Hervé BEUFFE, President of Tiamat Energy.

**Tiamat Sodium-ion power batteries** exhibit :

- very high power densities in charge and discharge (less than 10 minutes to fully recharge, size and weight reduction at pack level),
- a very high level of safety (no fire, no thermal runaway propagation from a cell to another).

This technology frees itself from traditional materials: no Nickel and Cobalt. Tiamat uses components that are available abundantly and independently of geostrategic powers.

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## ABOUT TIAMAT ENERGY

Tiamat develops a new generation of batteries based on electrochemical storage research from the CNRS and CEA. The startup is hosted at the Energy Hub of the Picardy Jules Verne University of Amiens.

Coming from French scientific excellence recognized internationally with the CNRS research center on energy and supercapacitors, RS2E (Network on Electrochemical Storage of Energy), Tiamat has CNRS innovation as shareholder and benefits from patents protected internationally.

In 2017, researchers from the Electrochemical Energy Storage Network (RS2E), an organization created in 2010 jointly by the Ministry of Research and the CNRS to accelerate technology transfer, combined with an experienced entrepreneur founded Tiamat with a huge ambition: to develop an eco-compatible lithium and cobalt-free battery technology, for power applications in large volumes.

Tiamat ran a first financing round of €1.6 million in 2018 with Picardie Investissement and Finovam as early investors.

2019 sees the first achievements by completing the first Proof of Concept, and by greatly increasing the performance of its power cell.

In 2020, Hervé Beuffe becomes the new president of Tiamat, which is carrying out a 2nd round of €3.5 million with investors Finovam, Picardie Investissement, CAP3RI, Nord France amorçage, Celeste Management, Sicae de la Somme, Sem Somme Energies who thus join CNRS innovation, scientists, founder and president as shareholders.

Since 2021, the company is implementing the Tiamat 2025 strategy.

## ABOUT STARTEC DEVELOPPEMENT GROUP

Based on more than 20 years of experience, Startec Développement is a French group of companies that design and supply energy transition technologies. The group accompanies customers through its three subsidiaries: Neogy, BMS PowerSafe and Clairitec.

Neogy is a company specialized in the manufacturing of energy storage systems. Neogy offers tailor-made battery packs (all types of electrochemistry) for energy storage provided by different energy sources, including electrical energy (Smart Batteries), solar energy (Belios) or hydrogen energy (Hydrogen Energy). Neogy covers the world of electric mobility, robotics and aeronautics. It offers batteries ranging from 150Wh to several MWh.

Specializing in embedded systems intelligence, BMS PowerSafe designs and manufactures intelligent battery management systems (BMS), integrating next-generation software and electronic boards that allow it to be one of the leaders in small electromobility, electric cars, energy storage, defense and aeronautics. Thanks to its expertise, BMS PowerSafe offers the most secure and efficient BMS solutions on the market.

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Through the Selfenergy brand, Clairitec designs and manufactures battery chargers for professionals. With its expertise in energy conversion, Selfenergy offers smart chargers that improve battery performance and extend battery life. Its expertise allows him to modify and/or even design specifically (depending on the application), a charger for Lithium, Ni-MH, lead-acid or any other technology.

More information on TIAMAT : <http://www.tiamat-energy.com/>  
Follow TIAMAT : <https://twitter.com/TiamatEnergy>

More information on STARTEC DEVELOPPEMENT : [www.startec-developpement.com](http://www.startec-developpement.com)  
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