

## The First Sovereign Powertrain for Drones

Paris, June 12, 2026 – At Eurosatory 2026, LN Innov', Novacium and Groupe ZeKat are unveiling the first French-made Powertrain combining a battery, ESC (Electronic Speed Controller) and motor, partly integrated into Hexadrone's Gekko platform, for instance.

As drones now play a central role in operational theaters, sovereignty over the critical components of a propulsion system remains a major challenge for both the industrial ecosystem and armed forces. The situation is clear: batteries and motors are still predominantly sourced from Asian supply chains, creating a persistent strategic dependency.

### The Propulsion System: A Blind Spot in Sovereignty

Drone sovereignty is not limited to airframes or mission systems. It also depends on full control of the electric powertrain. Batteries, ESCs and motors directly determine a platform's performance, endurance and operational availability.

LN Innov', which initiated the project and is responsible for system integration, partnered with Novacium and Groupe ZeKat to ensure that each of these strategic building blocks is mastered locally and delivered as an integrated, high-performance and sovereign solution. For the first time, a drone's entire powertrain—from battery to motor—can be French-made.

### The Battery Developed by Novacium

Thanks to an anode incorporating a silicon-based compound, the cells provide more than 25% additional capacity. They reach 6,600 mAh with an energy density of 320 Wh/kg, increasing to as much as 400 Wh/kg at battery-pack level. This technology also enables up to 1,000 charge and discharge cycles.

With the same onboard weight, these performances translate into greater endurance, extended range and longer flight times, without compromising payload capacity.

### Groupe ZeKat's Power Electronics

The true nerve center of the propulsion system, the ESC converts flight control commands into precise electrical signals for the motor. Operating at high frequency, it continuously adjusts the power delivered, ensuring system stability, reliability and safety.



### LN Innov' Motor

The motor converts electrical energy into thrust and is a key factor in achieving an optimal thrust-to-weight ratio. LN Innov's product range covers a wide spectrum of applications, from FPV drones to interception, surveillance and cargo platforms.

All motors are assembled and manufactured in France.

### Integration: The Key to Sovereign Performance

A powertrain is more than the sum of its components. Performance depends on optimizing every element to create a coherent, efficient and reliable solution.

Leveraging its expertise in electric propulsion, LN Innov' not only ensures full integration control but also markets the powertrain to drone manufacturers and operators. This approach guarantees technical consistency, operational performance and control of the value chain.

### Building a Sovereign Supply Chain for the European Industry

Already integrated into several operational drone platforms<sup>1</sup>, the powertrain demonstrates that sovereign propulsion is now an industrial reality.

Assembled and manufactured in France, it relies on a controlled supply chain that ensures availability, responsiveness and strategic independence. Designed for large-scale deployment, it combines performance, competitiveness and industrial production capabilities to meet the rapidly growing demands of both civil and defense markets.

By bringing together these three key technologies under a single integrator, this powertrain represents far more than a product: it lays the foundation for a European sovereign propulsion industry built around a flight-proven solution.

**According to Nathalie Mazeau, CEO of LN Innov':** "A drone cannot be considered sovereign if its propulsion system remains dependent on foreign technologies. Together with Novacium and Groupe ZeKat, we are proud to contribute to the emergence of a strategic industrial capability for France and Europe. The fact that our propulsion solutions are already tested and integrated by more than twenty European drone manufacturers and French Army validates both our technology and our long-term vision".

**Meet us at Eurosatory 2026 – Hall 4, Booth E249**



### About LN Innov'

*LN Innov' is a French technology company specialized in high-performance electric propulsion systems for drones and unmanned platforms. The company develops next-generation motors and integrated propulsion solutions delivering industry-leading power-to-weight ratios, efficiency and reliability. Through its Groupe Moto-Propulseur strategy, LN Innov' is building a complete ecosystem integrating batteries, power electronics, motors and propulsion optimization technologies.*

### About NOVACIUM

*Novacium is an innovative technology start-up created in 2022, in France. It is an engineering and R&D company dedicated to materials for energy, with a specialization in silicon and hydrogen. Novacium is developing 2 technologies. The first concerns a new silicon-based anode material that significantly increases the capacity of Li-ion batteries. Novacium's second activity is the generation of hydrogen. Novacium is developing an autonomous hydrogen generation system for civil and military applications fueled by a patented alloy based on silicon and aluminum.*

[www.novacium.com](http://www.novacium.com)

### About Groupe Zekat

*Groupe ZeKat is a French industrial group specializing in the design, industrialization and manufacturing of mechatronic systems. Its Mechatronics Division develops and manufactures control and power electronic boards, embedded electronic equipment, and electrotechnical systems. The Group supports its customers from engineering and production through to in-service support of critical equipment.* [www.groupezekat.com](http://www.groupezekat.com)

---

<sup>i</sup> Developed by Hexadrone, Safran Electronics & Defense, Alta Ares, Harmattan AI, Asterodyn and EBC.