E-MAGY
on with silicon

# ENS30™: Silicon Anode Technology for Next-Generation Batteries

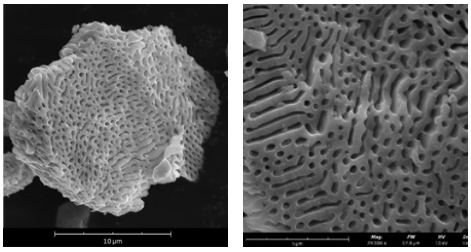
**Unlocking new performance for batteries across Drones, Consumer Electronics, and Electric Vehicles.**

## About E-magy

E-magy is revolutionising Li-ion batteries with its innovative silicon anode material ENS30™. We drive the transition to electric mobility and next-generation battery-powered devices across sectors, including drones and consumer electronics. Our scalable solutions empower manufacturers with up to 40% energy density and 3x faster charging while minimising environmental impact, making next-generation Li-ion batteries a reality.

## ENS30™ at a Glance

- **Higher Energy Density:** Up to 40% increase in energy capacity.
- **Faster Charging:** Delivers 3x faster charge rates for maximum convenience and uptime.
- **Reduced Silicon Expansion:** Minimises swelling during charge cycles, enhancing battery stability



*ENS30™: patented nanoporous silicon designed to boost energy density and improve battery performance*

## Target Market Benefits

### Drones

- **Extended Flight Time and Range:** Greater energy storage capacity enables longer flights and reduces the need for frequent recharging.
- **Faster Charge Cycles:** Silicon anodes enable faster charging, minimising downtime and allowing more frequent drone use.
- **Lightweight and Efficient:** Silicon anodes increase energy density, enabling lighter designs that enhance drone manoeuvrability and flight efficiency without sacrificing power.

### Consumer Electronics

- **Extended Battery Life:** Provides longer usage between charges, ideal for wearables, smartphones, and portable electronics.
- **Rapid Charging:** Enables near-instant power-ups to keep devices ready when consumers need them most.
- **Environmental Responsibility:** Responsibly sourced European silicon enhances battery longevity and reduces e-waste.

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## Electric Vehicles

- **Increased Range:** Higher energy density means longer driving ranges, easing range anxiety for consumers and enhancing EV appeal.
- **Fast Charging Capability:** Enables faster charging times, bringing EVs closer to the convenience of traditional fuel refills.
- **Reduced Battery Weight:** More efficient driving with lower car weight.

## ENS30™ Performance Metrics

| Market | Energy Density Improvement | Charging Speed | Weight reduction |
|---|---|---|---|
| **Drones** | **+30%** *(in 5 Ah drone battery pack)* | **70%** faster | **10%** |
| **Consumer Electronics** | **+40%** *(in 5 Ah cellphone battery pack)* | **3x** faster | **30%** |
| **Electric Vehicles** | **+30%** *(in 60 kWh battery pack)* | **3x** faster | **10%** |

## Why choose ENS30™?

- **Patented Technology:** Unique silicon anode design for maximum performance.
- **Scalable and Sustainable:** Solution ready for high-volume production and optimised for environmental sustainability.
- **Proven in Real-World Applications:** Successfully tested across multiple industries with consistently outstanding results.

## Explore our technology

Delve into our cutting-edge technology by visiting our pages and connect with our team!

Our website

Our LinkedIn

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