

Olenergies

Smart and sustainable Lithium batteries



Energy is our future, let's store it!









JEI jeune entreprise innovante Everything we do provides solutions for a responsible energy transition.

Our way of responding to the ecological emergency is to produce **innovative**, **new generation**, **high-performance**, **sustainable and smart** batteries **in France**.



That's why we make the best batteries

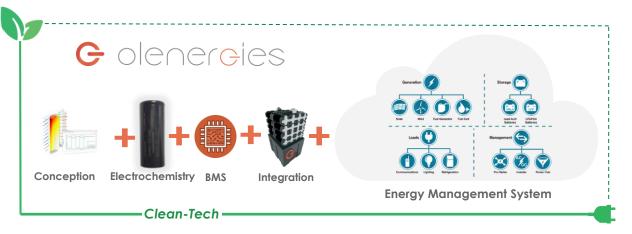


Ethical & Eco-responsible approach



Olenergies is an integrator bringing innovation and agility to every element of the energy storage chain:

- Olenergies Super LiFePo4/Gr cell designed and manufactured specifically for Olenergies to guarantee exceptional quality and purity → +20% lifetime
- Batteries equipped with an inhouse designed Battery Management System & a Smart controller unit



- Batteries are integrated in our workshops in France in order to guarantee the best quality for each step of the integration process and to meet the specificities of each use (casing, power output, etc.)
- A network supervision and optimization software "OlenPEPS" developed by our teams to significantly extend batterie's life, performance and guarantee financial optimization

Olenergies Who are we?

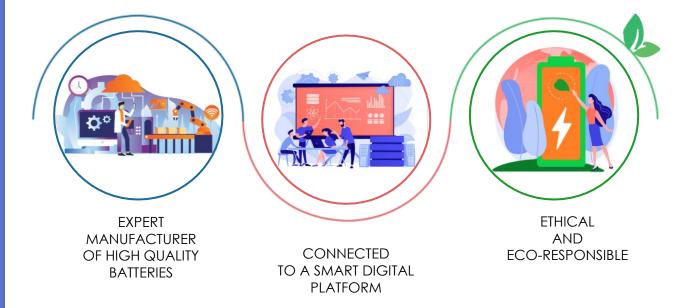


Olenergies, entreprise lauréate des Trophées , de l'économie verte 2019 d'Est Ensemble ,

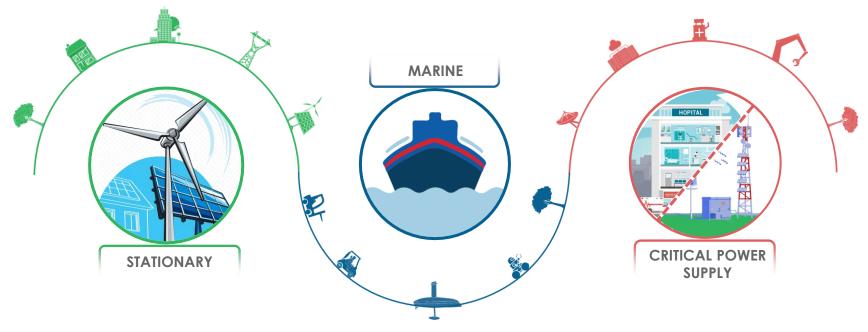


Olenergies : expert-manufacturer

of smart, sustainable, high-performance & safe French batteries



Olenergies deploys its design efforts, both for its batteries and its digital services, to serve the three uses:

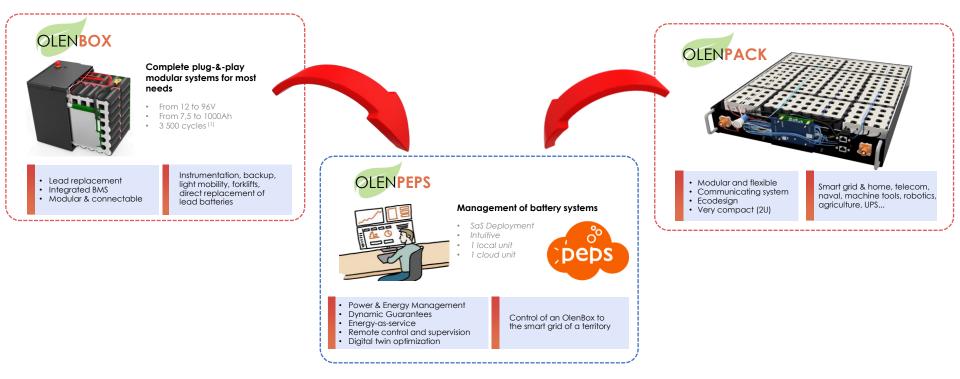


Objective: Maximize economic and ecological gains by accelerating RE insertion **Objective:** Maximizing energy and its management on board a marine drone or a river barge

Objective: Ensure the energy continuity of a hospital or a datacenter by replacing the diesel groups

3. Olenergies

OUR PRODUCTS



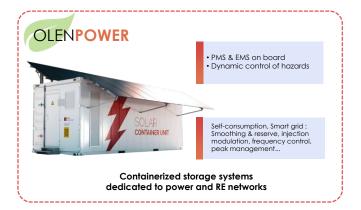
3. Olenergies

OUR PLUG-&-PLAY SYSTEMS

















LIFETIME

Our systems are designed for a minimum of 3.000 cycles or many years of use !



ECO FRIENDLY

No toxic or dangerous elements, for man or the planet, so no cobalt and never lead-acid



100% SECURED

The cell is inherently safe; no risk of fire or explosion



ON-BOARD INTELLIGENCE

Right to error: our BMS is a « safeguard » that will intervene in the event of an anomaly



FAST CHARGING

Is is not necessary to respect a load curve and this is done whithout losses (efficiency close to 100%)



FROM -20°C TO +65°C

Olenergies systems are still the technological choice for difficult environment

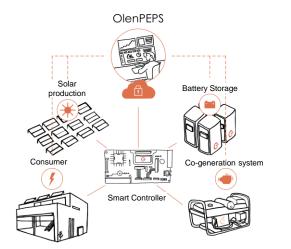
5. Olenergies Our software solutions





The OlenPEPS digital platform

Data processing by mathematical optimization in an uncertain environment





Remote support /maintenance: Lower costs



Energy As a Service



Optimization of battery charge/discharge : Lifetime

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Control of consumer equipment:

Maximized self-consumption

5. Olenergies

Our software solutions

Olen**PEPS**

- Piloting
- Energy
- Power
- Systems



The digital platform OlenPEPS

Vertical increase in performances



EMS global

Global system optimization « Machine learning » technology

> EMS local

In-depth knowledge of the underlying technologies

> **BMS** battery

Chemistry, mechanics, electronics and digital

BOOST EMS global

Global EMS with increased performance by integrating OlenPEPS offer:

- **Better use** of LFP batteries;
- Quick and easy integration via our APIs;
- Advanced integration through joint work with Olenergies team.



The OlenPEPS digital platform

More efficient local EMS

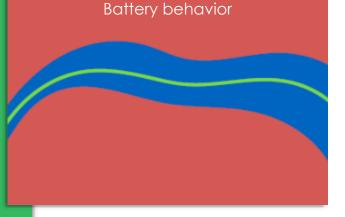


EMS local

An in-depth knowledge of the underlying technologies (chemistry, electronics, mechanics, computer science) allowing a control of the battery for optimal performances

> Extended life span

- \succ Better use of energy
- Controlled kWh cost



Ideal behavior controlled by the local EMS of OlenPEPS → Extended lifetime

 \rightarrow Optimized performance

Nominal range behavior \rightarrow Less optimized performance

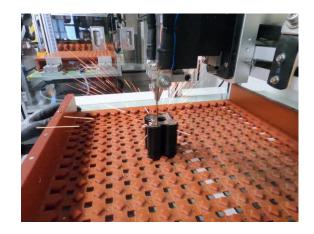
Critical zone \rightarrow Battery protection by the BMS





A new factory 4.0 from 2021

- 1,000 m² of additional space in the lle de France region
- Automated plant 4.0
- Production capacity: 1 MWh/d*
 *Before 2025





- Smart Factory
- Production from renewable energy sources
- Plant designed to be self-sufficient in energy by 2024

Olenergies Our partners and references

> Active member of the European Battery Alliance



efficacity



iXblue











ÉLYSÉE



PRÉSIDENCE DE LA REPUBLIQUE

Microsoft

Winner of the 2020 « Made in France » award at the Élysée +

Bercy

LIBERTÉ ÉGALITÉ FRATERNITÉ









