



ENWIRES



One line pitch:

ENWIRES is a start-up company in the field of nanoscale chemistry for improving energy density, cycle life and charge power of lithium-ion battery.

Market Analysis:

ENWIRES will focus on the global market of Li-ion batteries (LIBs) with 5.4 billion cells sold in 2014, and revenue of 19.6 billion \$ in the same year. There are three main trends of the market. 1. With the exception of electronics, historic and mature market segment, the other segments of the LIB market are still emerging and will grow strongly to 2025 (CAGR 2014-2025 is about 15%). 2. Cost of the LIBs is decreasing (20% between 2012 and 2014). 3. The market is looking for new materials to increase battery performance. Conclusion: two levers allow reduce the cost of LIBs, compress the production costs of the existing technologies and improve the energy density by the innovation.

Value proposition:

Our offer is a range of silicon-based anode materials designed for Li-ion battery manufacturers. ENWIRES will commercialize already prepared slurries (after formulation step); these materials could be coated and used directly at existing LIB anode production lines. Our competitive advantages are higher energy density (30% to 50% by using a classic cathode), longer cycle life and higher charge power (charge rate). ENWIRES has high-volume manufacturing advantage that exhibits the highest scale-up and lowest capex potential compared to other known existing production methods.

Business Model:

For a successful adoption we need to impose our technology step-by-step on several markets, according to their adoption rate of our offer. There are several types of customers: innovators (R&D laboratories, working on the use of silicon nanowires for energy storage), early adopters (the makers of upmarket Li-ion battery for high-value applications, as drones, military and aerospace), early majority (market with a rapid adoption cycle, as power tools, e-bikes and energy storage system) and late majority (the electric vehicle market). ENWIRES could offer either custom engineered materials or joint sales through equipment provider.

IP and Regulatory situation:

ENWIRES will use a patented technology from CEA (The French Alternative Energies and Atomic Energy Commission). The principle of an exclusive license from CEA to ENWIRES is agreed in the context of the spin-off of this research activity from CEA to ENWIRES. The key terms of the agreement are currently being negotiated.

COMPANY PROFILE

- **Website:**
www.enwires.com
- **Field:**
- **Contact:**
BURCHAK Olga
olga.burchak@enwires.com
- **Location:**
22 Allée du Pré Blanc
38240 Meylan
France
- **Founded in:** //2016
- **Employees:** 1
- **Financial information (€):**
 - **Company stage:**
Proof Of Concept
 - **Capital raised to date:**
400 000
 - **Monthly burn rate:**
25 000
 - **Capital seeking and date:**
1 000 000 at Q3 2017
- **Investors:**
French Government by
BPIFrance