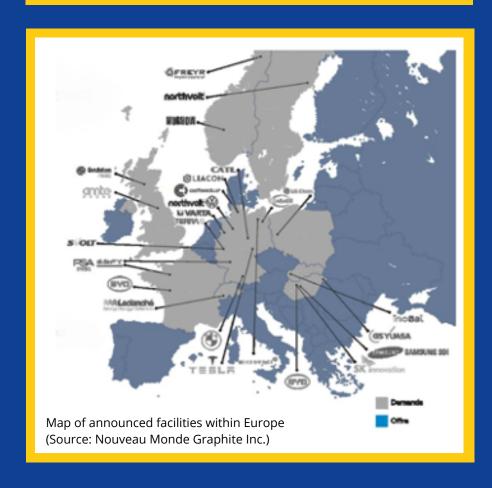
Energy Storage in the EU: State-of-the-Art Report



EU LI-ION PRODUCTION

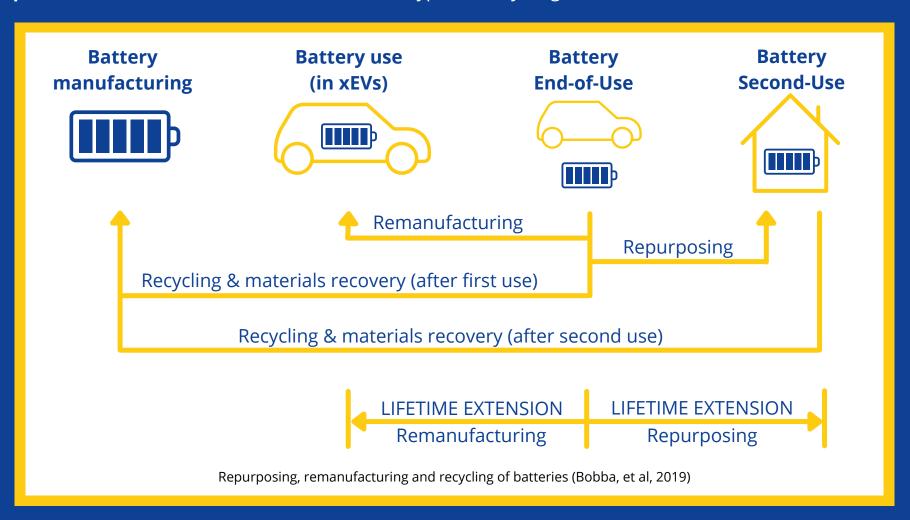


STATE OF THE ART

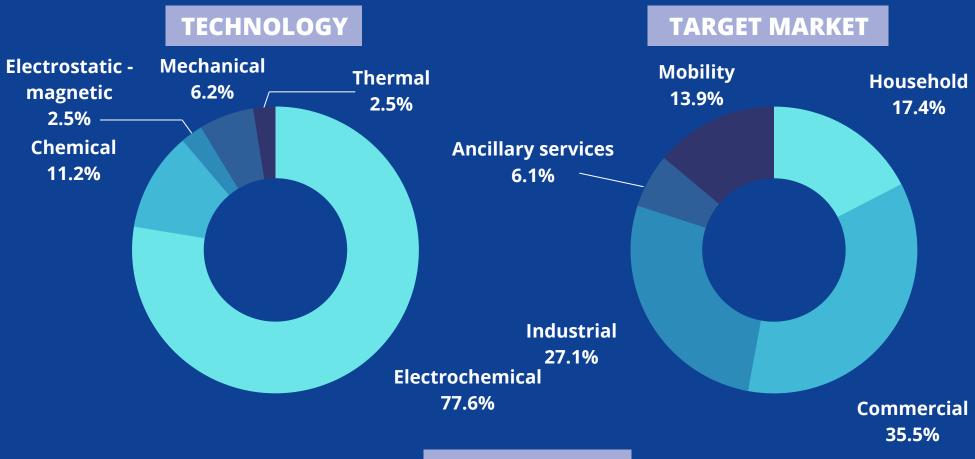
- It is estimated that the total European battery capacity production will reach 207 GWh by 2023
- Local design and production of energy storage is desired to create jobs and decrease the carbon footprint
- Currently 30% of the global cell assembly of technologically sophisticated applications happens in the EU. A variety of EU policy stimulates expansion into local design, manufacturing and recycling
- The map shows current success of attracting investors in production facilities

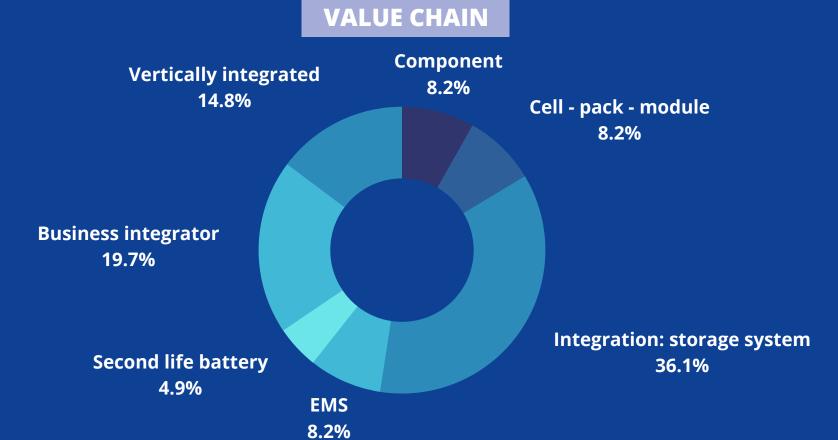
RECYCLING

As part of the approach of the **European Battery Alliance (EBA)**, launched in 2017, the EU is developing **full value chains** to include a focus on recycling batteries. Their goal is to decrease dependence on materials from other countries and achieve both **circularity** and more **sustainable production**. Outlined below are the different types of recycling:



PRELIMINARY RESEARCH ON THE SME LANDSCAPE IN NWE





TRENDS

- 1.R&D improves electrochemical storage
- 2. Research in Sodium-ion cells
- 3. Growing use of Li-ion batteries combined with PV's
- 4. Electrification of light duty commercial vehicles
- 5. Electrification of short-range public transport

OPPORTUNITIES

- 1. New selling points for energy management systems of home storage applications
- 2. Subsidies and policies for carbon neutral fuels
- 3. Repurposing enables affordable second life batteries
- 4. Job opportunities in energy storage value chain