



BATTERY INNOVATION CENTRE

ADVANCED TECHNOLOGY DEVELOPMENT

MOBI's Battery Innovation Centre is the main Belgian expertise centre for research and development of energy storage systems for traction and stationary applications. We offer state-of-the-art facilities, models, tools and solutions for the energy storage systems market.

OUR TESTING FACILITIES

- 300+ channels
- 12 climate chambers
- 42 impedance spectroscopy channels
- Thermal imaging equipment
- Argon Glove Box for Post-Mortem Analysis
- Pilot line for making next-generation battery cells
- Dry Room -60°C dew point
- Thermal management platform
- In-Situ XRD of battery cells

RESEARCH & DEVELOPMENT

- Next Generation Battery Technologies: Solid state, Li Metal, Li Sulphur, other
- Upscaling: From coin cell to pouch cell
- Manufacturability: Fabrication and Optimization
- Post Mortem activities and degradation mechanism detection, Safety and Risk detection.
- Modelling: Electrochemical - Thermal - Electrical - Lifetime
- Smart Thermal Management, Colling systems: Passive, Active, Hybrid, Different cooling liquids
- Smart functionalities: State-of-X (state of charge/ health/power/energy/safety/funtion) together with machine learning/data driven methods
- Evaluation on 2nd life
- Standardisation of batteries and functionalities



MOBILITY, LOGISTICS &
AUTOMOTIVE TECHNOLOGY
RESEARCH CENTRE

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