BATTERY TECHNOLOGIES

Our aim: To cover the whole development chain

Materials and Anodes, Cathodes
- Lithium Ion: Cathodes HE-NMC, Anodes Sn-alloys, SiC composites
- Post-Lithium Ion: Mg-ion, MetaAir, 55B

Electrode and Cell Fabrication
- RPL, Dry room: Electrode to pouch Cell max. 10 Ah
- Electrode to cell to module up to 10 Ah cap.

Performance and Safety Tests
- Accredited tests: Electrical, environmental, and safety tests
- Testing for XRD-cell

Battery SoC Diagnostics
- Analytical methods & real-time diagnostics
- Integration in GEMS
- Vibration-based tests

Post-mortem Analyses
- Characterisation: Physical, chemical and electrochemical methods
- In situ and operando measurements

Complete research chain from materials to semi-industrial production battery cells

Development of Lithium-ion battery material coatings and interface stabilization

OUR SERVICES
- Electrode design and slurry development
- Electrode coating and calendaring
- Pouch cell production up to 10 Ah capacity per cell
- Industrial prototype production in dry room (dew point down to -60 °C)
- Cell component validation
- Automatic electrode stacking and electrolyte filling
- Next Generation Smart Cell Design with integrated sensor technology

HOW TO COLLABORATE WITH US
- Direct Contract Research
- Co-Funded Project Collaboration
- Joint PhD Programs

CELL DEVELOPMENT
- Component tests
- Prototype production
- Smart Cells with integrated sensor technology

BATTERY TESTS
- Safety tests
- Electrical tests
- According to accredited standards and individual customer requirements

BATTERY DIAGNOSTICS
- In situ monitoring
- Ex situ characterization
- Post mortem analysis

Academic partners

Stakeholder networks

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