

## PROJECT RESULTS

The listing below categorizes the EVERLASTING public available documents describing many of the project results.

### ADVANCED SENSING

- [Non-Destructive Detection of Local Aging in Lithium-Ion Pouch Cells by Multi-Directional Laser Scanning](#)

### BATTERY MODELLING

#### BATTERY MODELLING AND CHARACTERIZATION

- [Parameter Estimation of an Electrochemistry-based Lithium-ion battery model using a Two-Step Procedure and Sensitivity Analysis](#)
- [Uncertainties in entropy due to temperature path dependent voltage hysteresis in Li-ion cells](#)
- [Modeling and simulation of inhomogeneities in a 18650 nickel-rich, silicon-graphite lithium-ion cell during fast charging](#)
- [D1.1 – Report on electrochemical cell model](#)
- [D1.3 – Report on virtual test benches \(MiL, SiL, HiL\)](#)

#### MODEL ORDER REDUCTION

- [A computationally efficient implementation of a full and reduced-order electrochemistry-based model for Li-ion batteries](#)
- [D1.2 – Report on model order reduction](#)

### BATTERY STATE ESTIMATION

- [State estimation of lithium-ion cells using a physicochemical model based extended Kalman Filter](#)
- [Reversible Self-discharge and Calendar Aging of 18650 Nickel-rich, Silicon-Graphite Lithium-ion Cells](#)
- [D2.3 – Report containing aging test profiles and test results](#)
- [D3.7 – Report on describing the effectiveness and further adaptations for the implemented measures.](#)
- [D8.5 – White Paper 02: SoC Definition](#)
- [D8.8 – White Paper 05: Cell Testing and Estimation of SOH.](#)
- [D8.11 – White Paper 08: Power Capability](#)

### BATTERY MANAGEMENT

- [Battery Management System Hardware Concepts: An Overview](#)
- [D2.5 – Development of reliability test procedures for EV BMS](#)
- [D6.1 – Analysis of the state of the art on BMS](#)
- [D6.2 – Requirements and architecture concept of a highly modular prototyping hardware platform](#)
- [D6.5 – BMS API](#)
- [D6.7 – Battery Management System Standard](#)

- [D8.3 – White Paper 01: BMS Functions](#)
- [D8.13 – White Paper 10: Battery Management for Different Types of Batteries](#)
- [D8.15 – White Paper 12: BMS Standardization.](#)
- [D8.16 – White Paper 13: Future of BMS.](#)
- [D8.14 – White Paper 11: Battery Thermal Management.](#)

## EXTENDED DRIVING RANGE

- [A Distributed Optimization Approach for Complete Vehicle Energy Management](#)
- [A Global Optimal Solution to the Eco-Driving Problem](#)
- [D3.3 – Report on power request prediction for electric vehicles.](#)
- [D3.5 – Report on driving range prediction and extension algorithm.](#)
- [D8.9 – White Paper 06: Balancing – What vs How.](#)
- [D8.10 – White Paper 07: Evaluation Cell Balancing.](#)
- [D8.12 – White Paper 09: Energy Management vs Battery Management](#)

## DEMONSTRATORS

- [D7.3 – Electric Van Demonstrator](#)

