
FLEXERGY

Deliverable 5 - Battery System Overall Simulation and Validation Process

Activity A2.3:

Thermal and electrical modelling of a Battery Energy Storage System - Simulation and Results

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FLEXERGY ABSTRACT

The FLEXERGY project aims at the development of an advanced management solution, highly innovative and provided of artificial intelligence, for the management of assets of battery energy storage systems, integrated with renewable energy sources or for application within a microgrid

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Language Requirements (for non-native English speakers)

In order to fully understand the content of this document, it is therefore recommended that the reader possesses a language proficiency equivalent to B1 level, according to European Language Levels

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1. Executive Summary

This document, Deliverable 5, aims at presenting the simulations and respective results based on the electrical and thermal modelling for verification and validation of the created models during Activities 2.1 and 2.2 under the scope of the FLEXERGY project. This task includes the base concepts of the simulation as well as the description of the considered scenarios, under both the limitations and the strengths of the chosen tools for simulation. Both electrical and thermal simulations are presented throughout the document.

The outcomes of this deliverable will be used throughout the project and will serve as a basis for the reference KPI definition in Activity 3, that will later feed the performance testing in Activity 5.4.

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