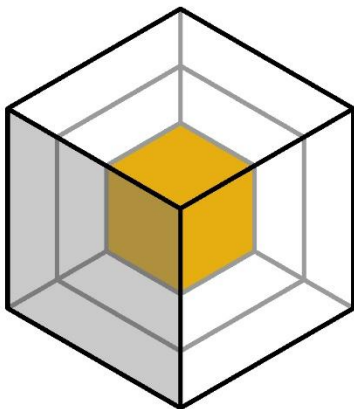


HORIZON EUROPE PROGRAMME
TOPIC HORIZON-CL5-2022-D2-01-09

GA No. 101103898

**NEXT-generation physics and data-based Battery
Management Systems for optimised battery utilisation**



NEXTBMS

NEXTBMS - Deliverable report

D1.2 - Requirements report for advanced BMS

Funded by the European Union under grant number 101103898.
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Funded by
the European Union



Deliverable No.	D1.2	
Related WP	WP1	
Deliverable Title	Requirements report for advanced BMS	
Deliverable Date	2024-05-31	
Deliverable Type	REPORT	
Dissemination level	Sensitive – member only	
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Document History

Version	Date	Editing done by	Remarks
V1.0	2024/05/08	Döge, Volker (BOSCH) Woll, Christoph (BOSCH)	Draft for review
V1.1	2024/05/28	Döge, Volker (BOSCH) Woll, Christoph (BOSCH)	After review version
V2.0 FINAL	2024/05/31	Kapeller, Hansjörg (AIT)	Submitted

Project summary

NEXTBMS will develop an advanced battery management system (BMS) built on fundamental knowledge and experience with the physicochemical processes of lithium-ion batteries, which will enable the significant enhance of current modelling approaches, including the readiness for upcoming lithium (Li) battery material developments. These modelling approaches will be further improved by optimising sensors and measurement techniques to meet modelling needs (and optimising models based on physical sensor data) and the physical cell configurations to form a framework that supports improving the battery state prediction and control. By solving these challenges, NEXTBMS will ensure that the next generation of BMSs will enable higher performance, safety, and longer lifetime of the battery cells for an overall optimal utilisation of the battery system.