

## EUROPEAN COMMISSION

HORIZON 2020 PROGRAMME - TOPIC H2020-LC-BAT-2019  
Strongly improved, highly performant and safe all solid-state batteries for  
electric vehicles.

GRANT AGREEMENT No. 875189



### **SAFELiMOVE – Deliverable Report**

<< D7.01 – Performance of 1Ah and 3Ah pouch cells >>

<b>Deliverable No.</b>	SAFELiMOVE D7.01	
<b>Related WP</b>		
<b>Deliverable Title</b>	Performance of 1Ah and 3Ah cells	
<b>Deliverable Date</b>	2023-12-15	
<b>Deliverable Type</b>	REPORT	
<b>Dissemination level</b>	Confidential – member only (CO)	
<b>Written By</b>	Adrien Méry (REN) with contribution of involved WP7 partners	2023-11-20 to 2023-12-08
<b>Checked by</b>	Christiane Rahe (RWTH) Maidier Usabiaga (IKR)	2023-11-30 2023-11-30
<b>Approved by</b>	Maria Martinez Ibañez (CICe)	2023-12-14
<b>Status</b>	Final	2023-12-17

*Disclaimer/ Acknowledgment*



Copyright ©, all rights reserved. This document or any part thereof may not be made public or disclosed, copied or otherwise reproduced or used in any form or by any means, without prior permission in writing from the SAFELiMOVE Consortium. Neither the SAFELiMOVE Consortium nor any of its members, their officers, employees or agents shall be liable or responsible, in negligence or otherwise, for any loss, damage or expense whatever sustained by any person as a result of the use, in any manner or form, of any knowledge, information or data contained in this document, or due to any inaccuracy, omission or error therein contained.

All Intellectual Property Rights, know-how and information provided by and/or arising from this document, such as designs, documentation, as well as preparatory material in that regard, is and shall remain the exclusive property of the SAFELiMOVE Consortium and any of its members or its licensors. Nothing contained in this document shall give, or shall be construed as giving, any right, title, ownership, interest, license or any other right in or to any IP, know-how and information.

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 875189. The information and views set out in this publication does not necessarily reflect the official opinion of the European Commission. Neither the European Union institutions and bodies nor any person acting on their behalf, may be held responsible for the use which may be made of the information contained therein.

## **Publishable summary**

This report aims to provide experimental results, analyses, and interpretations of the results for tasks related to Work Package 7 (WP7) of the SAFELiMOVE project.

The main objectives of WP7 are the following ones:

- Assess the performance and cycling life of full cells (~1 Ah pouch format, GEN1 and GEN2)
- Assess the performance of the large cells (10 Ah pouch format) according to the defined specifications and requirements in WP2
- Provide experimental evidence to the mechanisms involved in ageing of the solid-state cells
- Provide electrochemical parameters obtained from full cell evaluation to the modelling in WP9
- Assess solid state cells in accordance with EV safety requirement
- Assess the performance of a battery module
- Obtain user validation on the developed technology

## Appendix B- Acknowledgement

The author(s) would like to thank the partners in the project for their valuable comments on previous drafts and for performing the review.

### Project partners:

#	Partner	Partner Full Name
1	CICe	CENTRO DE INVESTIGACION COOPERATIVA DE ENERGIAS ALTERNATIVAS FUNDACION, CIC ENERGI GUNE FUNDAZIOA
2	SCHOTT	SCHOTT AG
3	UMICORE	UMICORE
4	HYDRO-QUEBEC	HYDRO-QUEBEC
5	SAFT	SAFT
6	RENAULT SAS	RENAULT SAS
7	TME	TOYOTA MOTOR EUROPE NV
8	IKERLAN	IKERLAN S. COOP
9	CEA	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
10	CIDETEC	FUNDACION CIDETEC
11	TUB	TECHNISCHE UNIVERSITAT BERLIN
12	RWTH AACHEN	RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN
13	ABEE	AVESTA BATTERY & ENERGY ENGINEERING
14	LCE Srl	LIFE CYCLE ENGINEERING SRL
15	UNIRESEARCH BV	UNIRESEARCH BV