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Strongly improved, highly performant and safe all solid-state batteries for
electric vehicles.

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Summary

The aim of this Dissemination Plan is to present the planned actions for communication and dissemination of the results of the SAFELiMOVE-project. Furthermore, the achievements of the project consortium to date are summarised in this document.

The overall aim of the dissemination activities within the SAFELiMOVE-project is to maximise the dissemination of results and to express them in terms that are readily understandable. This is in order to not only address experts in the field of high energy density batteries, but also stakeholders at governments, industry and suppliers, in order to accelerate the implementation of the research findings. The secondary aim is to promote the project findings through presentations at workshops, scientific publications etc. Furthermore, dissemination involves preparing information for the project website and facilitating the exploitation activities of the project, making the results known to future users.

This document will be a living (running) document and will be updated at least annually. Next to this, the coordinator CICE and administrative manager Uniresearch will track and trace the dissemination activities closely.

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1 Introduction

The aim of the Dissemination Plan is to maximise the dissemination of results and to express them in terms that are readily understandable not only to experts in the field of high energy density batteries, but also to stakeholders at governments, industry and suppliers, in order to accelerate the implementation of the research findings. The secondary aim is to promote the project findings through presentations at workshops, via scientific publications, etc. Furthermore, dissemination involves preparing information for the project website and it also aims at facilitating the exploitation activities of the project, making the results known to future users.

The dissemination plan is described in Chapter 2. It includes:

- Target audience identification
- Description of the dissemination materials and tools
- Usage of dissemination channels
- Dissemination efforts for each of the various channels.

The dissemination organisation and rules are described in Chapter 3. Chapter 4 includes a report on the achievements related to dissemination made so far.

2 Dissemination Approach

The SAFELiMOVE Dissemination Plan (D10.2) is prepared to give an overall view of the communication and dissemination actions of the project, as well as to identify the project dissemination objectives, targets and tools. It will give orientation for the activities throughout the entire duration of the project.

Communication and dissemination activities are crucial for the success of the project and therefore need to be carefully described and planned in advance. This document will be evaluated and updated at least annually according to the dissemination needs throughout the project and future feedback from the SAFELiMOVE General Assembly.

The dissemination activities should support the exploitation activities of the project, making the results known to future users. The activities should also generate business opportunities for all project partners. Therefore, this plan describes the role of the partners within the project dissemination activities and serves as a guideline for them in relation to the dissemination actions towards a general audience, beyond the stakeholders directly involved in the project.

2.1 Aim

The dissemination plan will establish the rules and guidelines on how the project will share its outcomes with target groups (see below for more detail) and networks.

The dissemination of the project results and outputs is indispensable for realising the value of the project. These dissemination efforts will not just be focused on the four year's project duration; they will also be directed at continuity of the SAFELiMOVE-collaboration extending beyond the project lifetime.

2.2 Overall dissemination strategy

The overall dissemination strategy of SAFELiMOVE is:

- To communicate and disseminate the knowledge gained within the project (after protection of intellectual property) to the international EV and transport community, the scientific communities in the field of battery research and beyond. To this end it should be noted that the partners CICE, RWTH, UMC, CEA, ABEE are members of EMIRI, The Energy Materials Industrial Research Initiative; RWTH and IKE are member of EERA, the European Energy Research Alliance; and Renault, Toyota are members of EUCAR, the European Council for Automotive R&D in which all major European vehicle manufacturers are involved.
- To interact with international partnerships and counterparts. The latter amongst others through EMIRI, ERTRAC (European Road Transport Research Advisory Council), EUCAR, EASE, EARPA and KLiB (kompetenznetzwerk lithium ionen batterien).
- To create public awareness through the website and through campaigns directed at social media.

The dissemination strategy is depicted in Figure 2-1.

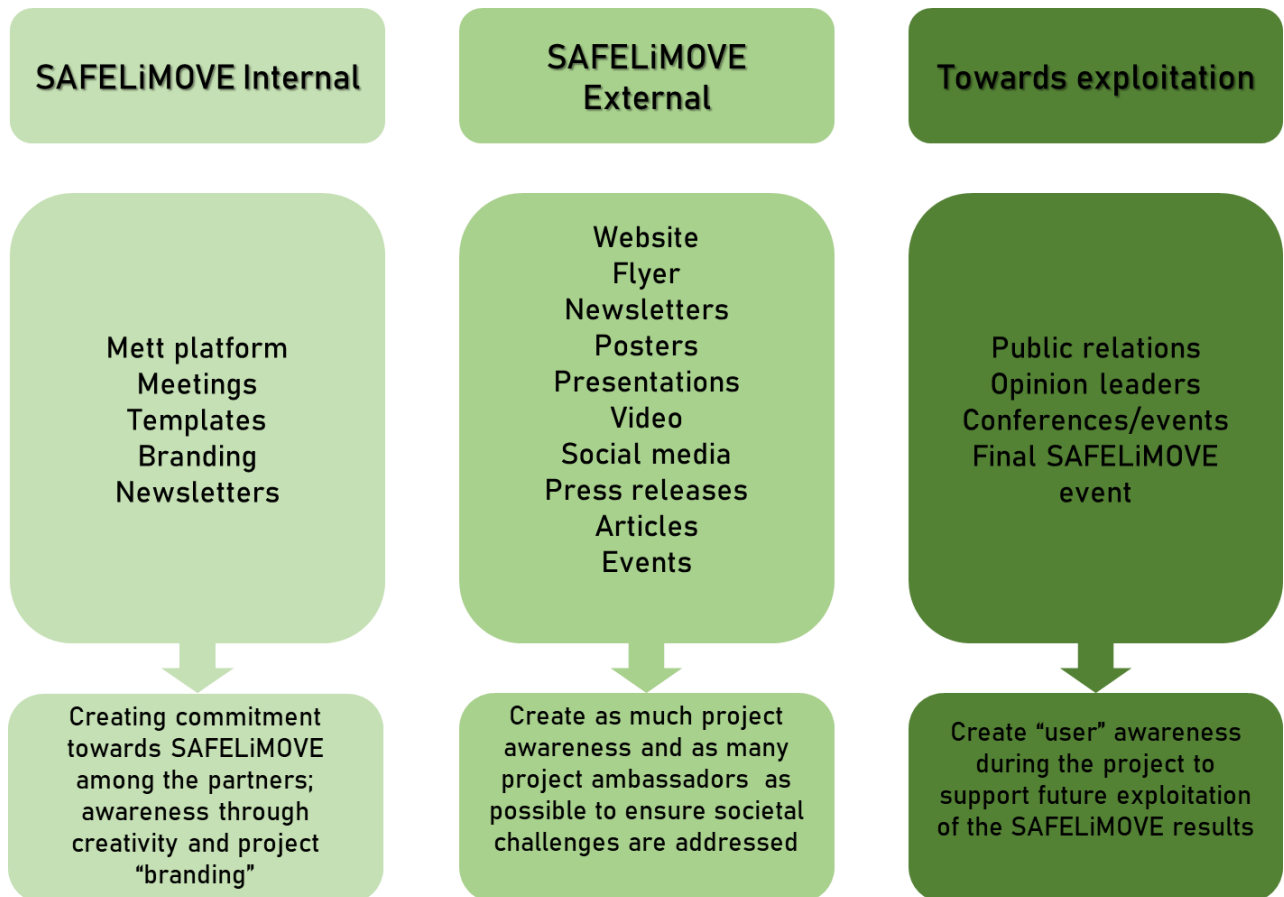


Figure 2-1 SAFELiMOVE dissemination strategy

2.3 Communication, dissemination and exploitation objectives

The communication and dissemination actions in SAFELiMOVE are envisaged to communicate and disseminate the activities carried out during the entire duration of the project, the project's main achievements and the initiatives organised by the partners of the project within the framework of SAFELiMOVE as well as their participation in major European and worldwide events and scientific conferences.

The Exploitation plan aims to strengthen and speed-up the market uptake of successful results of the project by development of an exploitation strategy for all eligible results and supporting the partners involved for further exploitation during the different stages of the project. This plan will be provided in a separate deliverable as draft at month 12 (D10.4) and in month 46 as final (D10.6).

This project aims to achieve, within its project duration, the following objectives:

- To manage the communication network of SAFELiMOVE.
- To disseminate the activities and results of SAFELiMOVE.
- To participate in conferences, tradeshows, exhibitions as well as organise the final event at the end of the project.
- To create a dedicated website for the SAFELiMOVE-project.
- To create all needed communication tools to give a visual identity to the project (e.g. project branding).
- To ensure the proper communication and dissemination of the information generated by the project to relevant stakeholders and the general public.
- To facilitate the communication systems with the project as well as other relevant related projects and organizations in order to promote the sharing of data and knowledge.

2.4 Target groups and stakeholders

Communication will be aimed at the following audiences and stakeholder groups:

- International transport community and beyond; EMIRI, EASE, CLEPA, EARPA, EUCAR, underlying initiatives, and other advisory bodies.
- International partnerships and counterparts; the latter amongst others through ERTRAC and KLiB.
- S-BAT cluster; the SAFELiMOVE-project is linked to the virtual cluster S-BAT (Solid state batteries).
- Scientific community.
- Automotive industry.
- The European Commission, other agencies, legislative authorities, standardisation committees (e.g. ISO, CEN, SAE international).
- The general public.

All partners shall inform their contacts on the SAFELiMOVE-project and if requested these partners will receive automatic updates of the project (newsletters) and can be invited to dedicated workshops/events.

2.5 Dissemination Channels and Tools

The main channels and tools used for dissemination include:

- SAFELiMOVE website: a project website where the project is presented to the automotive (research) community in the first place, as well as to policy makers and the general public. The website will provide information on the main objectives, results, news and events, etc. The website will be enhanced with social media (Twitter and LinkedIn) features to further encourage interaction and stimulate discussion between stakeholders from Europe and beyond. The website will remain alive beyond the project period as a principal means of disseminating and exploiting the results, and supporting market uptake actions.
- SAFELiMOVE social media channels: SAFELiMOVE uses Twitter (@ SAFELiMOVE) to post project news.
- SAFELiMOVE newsletters: at least six newsletters will be created in the SAFELiMOVE project, comprising the description of new developments and results. Additionally, at any time when it is regarded relevant, a newsletter will be issued, especially when new results become available.
- SAFELiMOVE flyer: a one-page document providing basic information about the main goals of the project, the technical approach, the expected achievements and a list of project partners. This will serve as the project's business card and will be distributed as widely as possible at any appropriate occasion. The flyer will also be digitally available on the public website.
- SAFELiMOVE video: a video that demonstrate the SAFELiMOVE innovations and delivers the message to the main users and to the open and wider public. This video will be shown at trade shows and exhibitions, and will be produced during the first two years of the project in the English language.
- SAFELiMOVE reports: public versions of project reports, available at the public website. In case of restricted (confidential) deliverables a public executive summary will be published. This will be part of each deliverable and is indicated in the project deliverable template.
- Scientific publications: throughout the project lifetime, the partners will produce articles defining the project and its available results, and will submit them for publication in internationally renowned business, engineering and scientific journals. Gold and Green Open Access Strategy will be followed. For open access publishing, only journals with impact factor will be considered. A repository zone in the website will be established and maintained by the coordinator for self-archiving of publications ensuring that the publications can be found and read online.
- SAFELiMOVE final event: by the end of the project an event will be organized by CICE to gather all stakeholders and disseminate and communicate the work done within the project outside the consortium and the S-BAT cluster.
- Project branding (e.g. SAFELiMOVE logo) and promotion tools (project presentation, roll-up displays).
- Presenting the project at trade shows, exhibitions and international conferences.

2.6 Quantification and timing of the dissemination activities

The following table provides a quantification of the project's dissemination activities and sets a basis for verifying whether the project dissemination objectives have been met. Monitoring will be done throughout the project and included in the official reporting at M18, M36 and M48.

Table 2-1 Quantification of SAFELiMOVE dissemination activities

Audience	Objectives	Key Performance indicators	Comments
Project website			
Policy makers, professionals, research community, industry and general public	Make target groups aware of the progress of SAFELiMOVE, results and their availability.	≥ 1000 views/year; ≥ 8 updates/year	SAFELiMOVE website will strongly promote project developments amongst the industry. Providing downloadable explanatory information, press releases, videos, photographs, project flyer(s), etc.
Conferences, exhibitions, trade shows			
Automotive sector professionals, research community	Show results, receive feedback	≥ 20 presentations	Key conferences - Life Cycle Management Conference (2021), Advanced Automotive Battery Conference – AABC (2023), 74th Annual ISE Meeting (2023), 243th ECS Meeting (2023)
Scientific publications			
Researchers in battery and automotive disciplines	Knowledge dissemination	5-10 peer reviewed publications	Key target journals - Electrochimica Acta, Journal of Power Sources, ACS Energy Letters, Journal of Energy storage, Journal of Electrochemical Society.
Electronic newsletter			
General public and automotive industry professionals and stakeholders	Keep interested parties informed of the project progress and results.	≥ 6 newsletters	The newsletter will also allow further extending the project's contact database.
Final event			
Automotive sector professionals, car manufacturers, policy makers, research community	Expand the results beyond the consortium; leverage the project results within the industry.	≥ 100 attendees	A final workshop will demonstrate the project deliverables with the aim to gain industry recognition. Final workshop in combination with the S-BAT cluster projects.
Social media (LinkedIn, Twitter)			
Automotive sector professionals, policy makers, research community	Expand the results beyond the consortium.	≥ 10 updates/month through partners	Social media will strongly promote project developments amongst the industry.

The proper timing of the dissemination actions is crucial for the effective dissemination of the project results. In the first months of the project all the tools needed to perform a proper dissemination and exploitation have been developed (including logo, website, templates). In the remainder of the project the planned activities need to be executed and monitored. The exploitation plan and activities are linked closely to the dissemination activities therefore D10.4 shall be considered complementary to this deliverable.

The dissemination and preparation of the projects' exploitation will not end with the project ending. Next to further developing the results towards market introduction, also the dissemination efforts will continue to support the market entry phase.

Future dissemination activities

- 2020 – 2023 Present results of research activities at international conferences, exhibitions and trade shows, by newsletters and through the project's website.
- 2020 – 2023 Availability of the project website, to keep results and findings directly accessible to the public. After 2023 the website will not be updated anymore but kept alive for 5 years.
- 2023 Final event

3 Dissemination organisation and rules

3.1 Dissemination management

The dissemination actions will be organised and led by the coordinator, CICE, supported by all partners. The major dissemination activities will be monitored by the internal half yearly progress reporting with contributions from the entire consortium.

3.2 Contributions of SAFELiMOVE-partners

All partners are expected to contribute to the communication and dissemination of the SAFELiMOVE-project and its developments through their own actions. The communication and dissemination activities of the SAFELiMOVE-partners include, but are not limited to:

- Publications in scientific and peer-reviewed journal papers.
- Announcements of SAFELiMOVE-developments on their organizations' website.
- Present the SAFELiMOVE project at international conferences, exhibitions and trade fairs
- Keeping the coordinator updated about developments, changes, and notable findings of SAFELiMOVE in a timely manner.
- Informing stakeholders of the progress in SAFELiMOVE when met at any technical workshop or event.
- Contribute (also through their organizations' press offices) in gathering scientific, industry, policy and media contacts and in regularly updating the dissemination activity list by sending information to the coordinator.
- Supporting in customising the prepared communication material (if needed in the country language and for a local audience).

3.3 Rules for dissemination and publication

The rules for dissemination and publication are described in the Consortium Agreement and the Grant Agreement.

3.4 Dissemination acknowledgement and disclaimer

Any dissemination activities and publications in the project, including the project website will:

- Display the European emblem. When displayed in association with a logo, the European emblem will be given appropriate prominence.
- Include the following statement (from the Grant Agreement, Art. 29.4): "This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 875189."
- Contain a statement that it reflects only the author's view and that the Agency is not responsible for any use that may be made of the information it contains (Art 29.5 of the Grant Agreement).

4 Dissemination achievements

In the table below, the dissemination achievements list is illustrated. The dissemination activities will be continuously monitored and collected in a separate Excel table, set up as requested in the EC official reporting.

Table 4-1 Overview of dissemination achievements

Date	Type	Type of audience	Countries addressed	Estimation of audience size	Partner responsible	Description
12 Feb 2020	Logo and templates	All	Worldwide	>1,000	UNR	Project logo is created and the colour scheme and branding of the SAFELiMOVE-project is formalised
30 April 2020	Public website	All	Worldwide	>1,000	UNR	The SAFELiMOVE-website is launched
June 2020	Flyer	Public	Worldwide	>100	UNR	Flyer publication with general project information for public dissemination. The flyer will also be published on the website
June 2020	Newsletter 1	Public	Worldwide	>100	UNR	Newsletter on the first results / achievements and goals of the project to raise awareness

4.1 Dissemination tools

An overview of the dissemination tools is presented below. A dedicated, more detailed deliverable focused on the dissemination tools (website, flyer and project templates, D10.1) has been prepared.

4.1.1 Project website

The website is designed, and it is maintained and constantly updated. The website can be found at www.safelimove.eu.

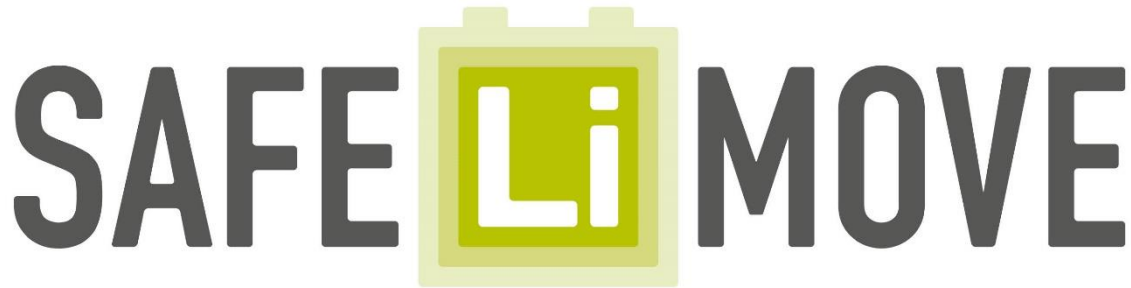
The project website:

- acts as contact point for interested third parties
- provides a brief project summary and project information
- provides company profiles of each project partner and a link to their websites
- informs the public on the most relevant project results
- hosts the publications, flyers and (summaries of) technical publications of the project for the general public
- provides links to other relevant activities, events
- contains contact details of the project coordinator and management
- contains the possibility to subscribe to the newsletter

Concerning the website, we can trace the activities via google analytics. More details are described in D10.1.

4.1.2 Project logo

An important item to establish the project's identity is the project's logo. This logo was chosen at the kick off meeting and will be included in all presentations, reports, documents etc. The logo is depicted below.



4.1.3 Flyer, newsletters and presentation

To promote the project to a wide audience and to the specific target groups, a project flyer has been created. The flyer has an attractive appearance and contains details on the main objectives of the project, the expected achievements and a list of project partners. This flyer will be distributed to the target group database, made available on the website and distributed at conferences and exhibitions.

Bi-annual newsletters will be published for the general public. The distribution procedure of the newsletter will be same as for the general flyer: distribution to the contacts via Mailchimp and made available on the website. The first project newsletter has been distributed in June.

More details on the flyer and the first newsletter can be found in D10.1.

To be able to present the SAFELiMOVE project in a consistent way, a general presentation will be created which can be used by all partners to present the project internally as well as externally. This general presentation will consist of most relevant information available at that present time, objectives, concept, structure, expected results and key figures of the project. This presentation will be updated throughout the project runtime.

4.2 Scientific and technical publications

To increase the impact of the project results and to promote debate to accelerate the implementation of these results, presentations will be given at international conferences and exhibitions and publications will be written. Envisaged actions are:

- Presentations of the project/project results at multiple conferences
- (Invited) presentations at events by EC, national governments and other stakeholders
- Publications in scientific journals (once the intellectual property is protected)
- 6-8 Peer reviewed publications

All partners contribute and initiate these activities, when appropriate. CICE and UNR will issue and maintain a list of publications and presentations as part of this Dissemination plan and periodic reporting.

The SAFELiMOVE-project partners will present project results at international conferences and exhibitions. The tables below provide the first list of possible conferences and journals. These will be further extended during the project timeframe. In a separate Excel sheet, the planned dissemination activities at conferences and exhibitions will be tracked frequently.

Table 4-2 First schedule of conferences and exhibitions where SAFELiMOVE results can be presented

Conferences and Exhibitions	Year/date	Partner responsible/involved	Comment
Battery Conference 2021	April 2021	RWTH	
10 th International Conference on Life Cycle Management	Sep 2021	LCE	
EMRS- European Materials Research Society- 2021 Fall meeting	Fall 2021	CICe	The scientific programme includes latest advances in materials research in both fundamental and applied areas. One of the symposiums is focussed on energy materials where CICe plans to show the data obtained for the polymer electrolyte
EMRS- European Materials Research Society- 2022 Spring meeting	Spring 2022	CICe	The scientific programme includes latest advances in materials research in both fundamental and applied areas. One of the 4 topical clusters is focussed on energy materials where CICe plans to show the data obtained for the polymer electrolyte
Battery Conference 2022	April 2022	RWTH	
Graz Battery Days	2022	SCHOTT	
Life Cycle Innovation Conference	2022	LCE	
Bunsen Colloquium on Solid-State Batteries	2022	SCHOTT CID	
DTIP conference	2022	TUB	
International Meeting on Lithium Batteries – IMLB	2022	HQ	
Battery Conference 2023	April 2023	RWTH	
243th ECS Meeting	May 2023	CEA	WP5 results on interfaces characterisation
74th Annual ISE Meeting	Sep 2023	CICe/ SCHOTT	Among the different symposiums, there is one focused on solid state electrolytes. This is where CICe plans to show the data obtained for the polymer and hybrid electrolyte
244th ECS Meeting	Oct 2023	HQ, ABEE	
Advanced Automotive Battery Conference – AABC	2023	RWTH, RE- NAULT, ABEE	Strong OEM involvement, conference dedicated to battery technology
Dresden Battery Days	2023	SCHOTT	
MoDVal Conference	2023	CID	
Oxford Battery Modelling Symposium	2023	CID	
International symposium on solid electrolytes	2023	CID	
European Materials Research Society (EMRS)	2023	CEA	WP5 results on interfaces characterisation
European Conference on Applications of Surface and Interface Analysis (ECASIA)	2023	CEA	WP5 results on interfaces characterization
GENERA 2023	2023	IKE	

Table 4-3 First list of journals for publication of SAFELiMOVE results

Business and Scientific Journals	Year/date	Partner responsible/involved	Comment
Journal of Energy Storage	2021	RWTH	Modelling of Interface
Journal of Power Sources	2021	CICe	Data derived from SAFELiMOVE project related to the polymer electrolyte will be published
Electrochimica Acta	2022	CICe	Data derived from SAFELiMOVE project related to the polymer electrolyte will be published
DTIP conference proceedings	2022	TUB	High throughput testing micro cells
Batteries and Supercapacitors	2022	TUB	Results of material variations for solid state battery research
Journal of Power Sources	2022 or 2023	CEA	WP5 results on interfaces characterisation
ACS Applied Material and interfaces	2022 or 2023	CEA	WP5 results on interfaces characterisation
Electrochimica Acta	2023	CID/SAFT/TME/REN	Cell design, cell performance
Journal of Electrochemical Society	2023	CID	Phase field modelling for dendrites growth understanding
Journal of Power Sources	2023	CID/SAFT/SCHOTT /CIC/HQ/UMC/ABEE	Cell design, cell performance
Journal of Power Sources	2023	RWTH	Degradation Model
Journal of Power Sources	2023	RWTH	Ageing Behaviour
Journal of Power Sources	2023	IKE	Upscaling from cells to module
Journal of Energy Storage	2023	RWTH	Post Mortem
Physical Review B	2023	ABEE	Publication on modelling
Physical Review Materials	2023	ABEE	Publication on modelling
International Journal of Life Cycle Assessment		LCE	Applicability of this paper depends on project (intermediate) results

4.3 Final Event

To present the findings of SAFELiMOVE to a wider audience a final event will be organised by CICe gathering all stakeholders. Stakeholders in the field of batteries, EVs will be invited.

5 Outlook and conclusion

This document will be submitted to the EC through the EC Deliverable submission system, however in the project this will be a living (running) document. This document and the corresponding dissemination activity tables (publications and journals) as stated in the document will be updated on a regular basis, discussed regularly in the Work Package Leader Board and the General Assembly meetings. Next to this, CICE and UNR will track and trace the dissemination activities closely.

Appendix A- 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