



STORAGE RESEARCH INFRASTRUCTURE ECO-SYSTEM

TERMS OF REFERENCE  
WORKING GROUP 1



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## 2 ABBREVIATIONS AND ACRONYMS

AB	Advisory Board
AC	Associated Countries
ES	Energy Storage
GB	Governing Board
LoI	Letter of Intent
LTP	Linked Third Party
MS	Member States
R&I	Research and Innovation
RI	Research Infrastructure
RTO	Research and Technology Operator
SC	Steering Committee
SRIA	Strategic Research and Innovation Agenda
TNA	Transnational Access
ToR	Terms of Reference
WG	Working Group
WP	Work Package

### 3 INTRODUCTION

StoRIES' main objectives are first, to create a large European eco-system of both industry and research institutions to work on hybrid energy storage (ES) and second, to provide access to most advanced scientific infrastructures in the field. Four permanent Working Groups (WGs) have been set up to ensure the involvement and contribution of all the stakeholders of StoRIES eco-system, providing vision, inputs, guidance, and continuous feedback for the development of different documents, publications, and activities.

WG1 will provide input and recommendations to the Strategic Research and Innovation Agenda (SRIA) and the roadmap for hybridisation of ES developed in Task 3.3 ('Development of a roadmap and SRIA for hybridization of ES'). The requested input will cover different areas and topics such as the identification of combinations for hybrid ES as well as needs in terms of innovation, research infrastructure, technology development, cost reductions, integration for single technologies and combinations to be viable. The roadmap and SRIA will gather experience and knowledge from all stakeholders in the StoRIES ecosystem, and use this to identify knowledge gaps and needs for research and innovation in order to make hybrid storage solutions viable.

## 4 GOVERNANCE

### 4.1 Definition of Roles

The WG1 Chair is responsible for coordinating the work of the WG and ensuring that the work and activities of the WG1 are carried out within the framework of the actions set out in the work plan and in accordance with the defined Terms of Reference (ToR). The WG1 Chair invites WG1 members to meetings (including invitations to external experts), leads WG1 meetings, collects feedback and input from the experts by the workshops or via email, coordinates and consolidates the work within the working group and forward the feedback to T3.3 leader. The WG1 Chair prepares minutes after each meeting summarising relevant decisions and actions and distributes them to WG members.

WP1 leader assists the WG1 Chair in carrying out the above activities as needed. The WG1 Chair ensures regular communication with the WP1 leader and with other WGs as well as with other working groups within StoRIES. There is no provision for a co-Chair for WG1.

By signing a Letter of Intent (LoI, Annex II) all WG1 members agree to prepare for active participation and contribute to WG1 meetings, discussions and outcome papers.

### 4.2 Working Group 1 chairmanship

WG Interim Chair will launch the call for the election of the permanent WG Chair. Only WG members who signed a LoI can be appointed as a Chair. Before transmitting to the Governing Board the final recommendations on the WG composition, the list of applications will be examined by the Secretariat which reserves the right to modify the composition of each WG, based on StoRIES needs.

The WG Chair(s) and members of the WGs will be finally appointed by the GB with a majority vote.

In case the position of the Chair will become vacant due to unforeseen situations (illness, change of organisation, etc.), the Secretariat will reinstate the process as described above.

## 5 COMPOSITION AND MEMBERSHIP

The composition of the WG1, the selection and admission criteria follow the [Chapter 3.4 of D1.1 - "Definition of governance for the WGs"](#).

Before transmitting to the GB the final recommendations on the WG composition, the list of applications will be examined by WP1 leader which reserves the right to modify the composition of each WG, based on StoRIES needs. Annex I contains a list of potential candidates who have expressed their interest to become a member of WG1.

The WG1 members will be finally appointed by the GB with a majority vote.

As the SRIA and the roadmap for hybridisation of ES will be developed in Task 3.3 ('Development of a roadmap and SRIA for hybridisation of ES') of WP3, the corresponding task leader should be an active member of WG1.

## 6 WG1 MEETINGS

Within two months before the completion of one roadmap/SRIA version, the Chair will summarise the documents and schedule a virtual meeting to discuss the results with WG1. The summary will be made available to WG1 members at least two weeks before the meeting.

The participants invited and strongly expected to attend the WG meetings are: the WG Chair, T3.3 leader and all WG1 members.

The schedule of WG1 meetings is closely linked to the T3.3 work plan. For this reason, in case of delays in the implementation of the different versions of the roadmap/SRIA, there may be deviations from the WG1 work plan.

During the WG1 meeting:

- The outline /scope or the corresponding draft version of the roadmap/SRIA are presented by the WG1 chair/T3.3 leader;
- Recommendations for implementation of the outline /scope or the corresponding draft version of the roadmap/SRIA are discussed;
- The outcome to be presented to T3.3 core group is prepared;
- The need for a possible virtual or physical WG1 follow-up meeting is discussed.

After the meeting:

- The Chair provides a summary of the meeting and distributes the outcome to T3.3 leader;
- If necessary, WG1 Chair organises a meeting with T3.3 core group.

### 6.1 Agenda and Minutes of the meetings

The agenda of each meeting will be prepared by the WG1 Chair assisted by the Secretariat as needed two weeks before the meeting. The agenda will include relevant previous decisions, follow up actions from the previous meeting and important discussion points.

After each WG1 meeting, the minutes should be prepared by the WG1 Chair and circulated within two weeks' time. If no objections to the minutes are received ten days after their distribution, then they will be considered as approved by all WG1 participants.

## 7 DATA MANAGEMENT AND FILE SHARING

All members of WG1 receive access to a StoRIES SharePoint folder dedicated to the work of WG1.





## 8 ANNEX I – WG1 MEMBERS

Family Name	First Name	Organization	Country	Specific Field
Balducci	Andrea	UNIJENA	DE	Electrochemical Energy Storage
Bouchotrouch	Faisal	CENER	ES	Management System Development
Cavazzini	Giovanna	UNIPD	IT	Mechanical Energy Storage
Dr. Mayo-García	Rafael	CIEMAT	ES	Roadmap for Hybridisation, Strategic
Graczyk-Zajac	Magdalena	EnBW	DE	Electrochemical Energy Storage
Granados	Xavier	CSIC-ICMAB	ES	SMES
Groenenberg	Remco	TNO	NL	Medium to long duration es
Iturbe	Rafa	ANTECSA	ES	SMES
Jacas Biendicho	Jordi	IREC	ES	Electrochemical Energy Storage
Karagiannakis	George	CERTH	GR	Thermal/Thermochemical es
Koornneef	Joris	TNO	NL	Medium to long duration es
Luque Aleman	Enrique	VOITH	DE	Management Energy Storage
Mahmood	Nasir	RMIT	AU	Electrochemical Energy Storage
Millingen	Magnus	TEXEL	UK	Thermal Energy Storage
Navarro	Helena	UNIBIRG	UK	Thermal Energy Storage
Ollacarizqueta	Aitor	CENER	ES	Management System Development
Paillard	Elie-Elisee	POLIMI	IT	Electrochemical Energy Storage
Persoglia	Sergio	OGS	IT	Hydrogen Underground Storage
Stevens	Philippe	EDF	FR	Electrochemical, Chemical, Thermal
Scipioni	Roberto	SINTEF	NO	Electricchemical
Trilla	Lluis	IREC	ES	Battery Management System
Zadeh	Mehdi	NTNU	NO	Marine Hybrid Power System
Zubizarrtea	Leire	ITE	ES	Materials for Energy Storage

WG1 Chair: Myriam E. Gil Bardají, KIT

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## 9 ANNEX II – LETTER OF INTENT (TEMPLATE)

[city], [Day] [Month] [Year]

### Letter of support for H2020 STORIES project

**Subject: Interest of becoming a member of the *Working Groups 2-3* in the STORIES project**

**H2020: LC-GD-9-1-2020:** European Research Infrastructures capacities and services to address European Green Deal challenges // Topic: Support Europe leadership in clean energy storage technologies

Dear STORIES consortium,

**Mr.XXXXXXX** hereby expresses **her/his** active support to the project '**STORIES-Storage Research Infrastructure Ecosystem**' led by Karlsruhe Institute of Technology (*KIT*) under the H2020 Green Deal Call.

In December 2019, the European Commission has presented the "European Green Deal", a set of policy initiatives aiming at ensuring the EU becomes climate neutral by 2050. These policy initiatives have strong implications for the energy sector, and for the energy storage sector in particular. To address these challenges, STORIES brings together a consortium of more than 30 beneficiaries from at least 15 countries: ESFRI facilities, technology institutes, universities and industrial partners to jointly improve the economic performance of storage technologies.

The main technological objectives of STORIES are linked to the energy storage development by providing access to world-class research infrastructures and services, with a focus on improving materials for devices and optimizing hybrid energy systems with a view to make energy technologies more competitive and reducing costs. In addition, STORIES focus on the analysis of socio-technical and environmental aspects of new developments and systems and provides training and education.

The project will bring a significant contribution towards Europe's independence on fossil fuels, while opening industrial opportunities for disruptive technologies. The foreseen acceleration of materials developments and enhancing of hybrid storage technologies will lead to cost reduction of energy storage devices. Users will perform research to foster innovation in the long lasting structures of the European Energy Research Alliance (EERA) and the industry lead European Association for Storage of Energy (EASE). This supports strongly the entire energy value chain and is a necessity to solidify the European leadership in renewable energy technologies.

With reference to this project, **Mr. xxxxxxx** as energy storage expert in the field **---energy storage**, will participate as a member of the project's **Working Group 1** and contribute to the Roadmap for hybridisation of energy storage as well as the Strategic Research and Innovation Agenda (SRIA) within the STORIES project.

Yours sincerely,

**Signature**

**Name, position and organisation**

