

Grant agreement no: 666221	Project Acronym: HELIS	Project title: High energy lithium sulphur cells and batteries
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Organization name of lead contractor: KEMIJSKI INŠTITUT	Document version: V 1.0
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Work package: WP 10 Knowledge management, dissemination and communication

Title: D 10.1 Web page

Start date of project: June 1 st 2015 (duration 48 months)	Contractual Delivery Date: 1.12.2015	Actual Delivery Date: 5.2.2016
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Dissemination level: <input checked="" type="checkbox"/> PU (Public) <input type="checkbox"/> CO (Confidential, only members of the consortium + Commission)
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1 OUTLINE

This deliverable provides a functional description of the external (public) and internal (confidential) website of the project. To understand the usage of the website, the website was registered with the free Google Analytics facility which will allow monitoring the website visits.

2 WEB SITE – EXTERNAL

The website of the project HELIS can be found at <http://www.helis-project.eu/> and serves for the publication and dissemination of the objectives, results and achievements of the project.

The website is created, technically supported and maintained by National Institute of Chemistry and will be done so at least for next four and half years (at least one year after the official end of the HELIS project).

The public website will be maintained regularly with updates at least once per month as the project produces results, as papers are published, deliverables released or whenever there is some news.

The web site contains the following content pages:



1) Home: with short description of the project, objectives, and challenges and also with the news page.



2) About the project: with short project overview, project consortium and project plan

HELIS High energy lithium sulphur cells and batteries

ABOUT THE PROJECT | CONSORTIUM | WORK PACKAGES BREAKDOWN | DELIVERABLES AND PUBLICATIONS | NEWS & EVENTS | MEDIA CENTRE | GLOSSARY

CONSORTIUM | WORK PACKAGES BREAKDOWN | DELIVERABLES AND PUBLICATIONS

About the project

Title of the action:
High energy lithium sulphur cells and batteries

Acronym of the action:
HELIS

Duration:
The duration of the action is 48 months, start date is 1st of June 2015.

Estimated budget:
The maximum grant amount is € 7,874,352.00 with 100% of reimbursement of eligible costs.

Outline

Lithium Sulphur (Li-S) are viable candidate for the commercialisation among all post Li-ion battery technologies due to their high theoretical energy density and cost effectiveness. Despite many efforts, there are remaining issues that need to be solved and this will provide final direction of lithium sulphur batteries technological development. Some of technological aspects, like development of host matrices, interactions of host matrix with polysulphides and interactions between sulphur and electrolyte have been successfully developed within FP7 project EUROCELLS (www.eurocells.eu). Open porosity of the cathode, interactions between host matrices and polysulphides and proper solvation of polysulphides are requirements for the complete utilisation of sulphur. A possible direction to improve cycling properties is an effective separation between electrodes.

The HELIS project will be addressing remaining issues connected with a stability of lithium anode during cycling, with engineering of complete cell and with questions about lithium sulphur batteries cells implementation into commercial products (aging, safety, recycling, battery packs). Instability of lithium metal in most of conventional electrolytes and formation of dendrites due to uneven distribution of lithium upon the deposition cause several difficulties. Safety problems connected with dendrites and low coulombic efficiency with a constant increase of inner resistance due to electrolyte degradation represent main technological challenges. From this point of view, stabilisation of lithium metal will have an impact on safety issues. Stabilised interface layer is important from view of

3) Consortium: brief introduction of all members of the HELIS consortium together with links to their websites.

HELIS High energy lithium sulphur cells and batteries

ABOUT THE PROJECT | CONSORTIUM | WORK PACKAGES BREAKDOWN | DELIVERABLES AND PUBLICATIONS | NEWS & EVENTS | MEDIA CENTRE | GLOSSARY

Consortium

HELIS Consortium map

CONSORTIUM

- NIC
- SAFT SAS
- HEL
- SAFT SAS
- CHRS
- SOLVIMIC
- CHALMERS
- FRANKHOFFER
- PICOSUN
- RWU
- MPH
- IBBC
- ACCURIC
- TAU
- HEMS
- PSA

- 4) Work package: on the main page is the diagram of all WP's with responsible beneficiary for each WP and on the left side of the page is the WP with short descriptions.

The screenshot displays the HELiS website's 'Work packages breakdown' page. The navigation menu includes 'ABOUT THE PROJECT', 'CONSORTIUM', 'WORK PACKAGES BREAKDOWN', 'DELIVERABLES AND PUBLICATIONS', 'NEWS & EVENTS', 'MEDIA CENTRE', and 'GLOSSARY'. The main content area features a central diagram of work packages (WP1 to WP10) arranged in a circular pattern with arrows indicating dependencies. To the right, a blue box titled 'WORK PACKAGES BREAKDOWN' lists the work packages and their descriptions. Below the diagram, two columns provide details for WP 1 (Project management) and WP 2 (System definition and benchmarking).

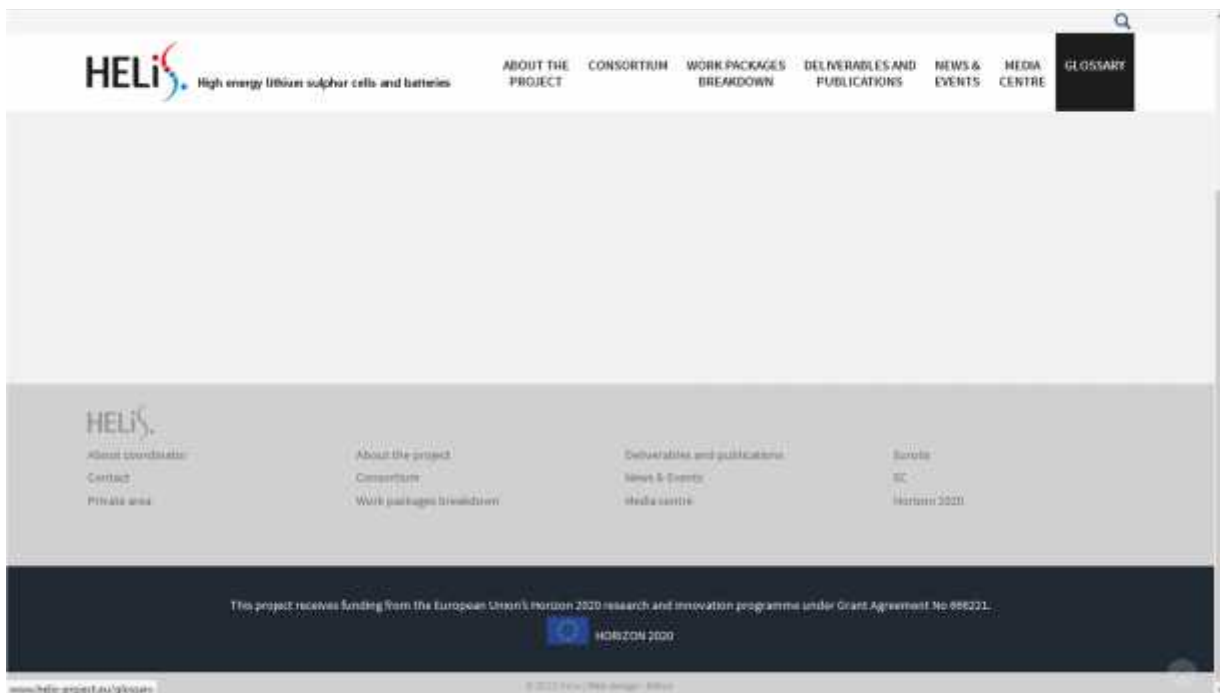
- 5) Deliverables and publications: publication of public deliverable and scientific papers presenting the project results
- 6) News & Events: dates of future and past meetings of general assembly and executive board
- 7) Media centre: project factsheet and presentation of project in public media (newspapers and magazines).
- 8) Glossary: list of abbreviations

The bottom of the page: holds the quick links to:

- About coordinator
- Contract
- Private area
- About the project
- Consortium
- Work package breakdown
- Deliverables and publications
- News & Events
- Media Centre
- Eurolis



- EC
- Horizon 2020



3 SHAREPOINT PORTAL - INTERNAL WEB PAGE

In order to ensure efficient communication within the consortium, beside the internal mailing list an internal website has been set up. The access to the website is through the tab “private area” in the public web site, at the address <https://ki-portal.ki.si/projekti/eurolis/Helis/default.aspx>.

It can be reached by logging in with username and password. By implementing both the public website and the internal portal with the same content management system, it will be possible to ensure consistency and coherence of documents, to introduce a transparent workflow in the creation of documents, while maintaining a protected work area for the consortium.

Only the General Assembly members have been given access to the internal Shared point portal. The purpose of the Shared point portal is the committing and resolving issues, exchange of the documentation and project-internal tasks.



4 GOOGLE ANALYTICS

To help understand the usage of the website, the website was registered with the free Google Analytics facility. This will allow rich reports to be run on the website, giving a very clear picture of information such as:

- demography and number of users that are visiting the site
- time on the site by page
- keywords used for the access of the webpage

