

RESEARCH DEVELOPMENT REQUEST PROFILE

A. Company Profile - Description of the company

- Fields marked with asterisk (*) are mandatory. The fields in grey are confidential and for internal use only.

Organisation / Research Group*:	City*:	Country*:
<input type="text"/>	<input type="text"/>	<input type="text"/>
Street*:		Postal Code*:
<input type="text"/>		<input type="text" value="03690"/>
www-Address*:	Contact person*:	
<input type="text"/>	<input type="text"/>	
Position in the Organisation*:	Telephone*:	Fax:
<input type="text"/>	<input type="text"/>	<input type="text"/>
General e-mail address*:	E-mail contact person*:	
<input type="text"/>	<input type="text"/>	
Year established*:		
<input type="text"/>		

Turnover in million Euro*:

- <1M
 1-10M
 10-20M
 20-50M
 50-100M
 100-250M
 250-500M
 >500M

Type of client and number of employees*:

- Industry SME <= 10
 Industry SME 11-49
 Industry SME 50 – 249
 Industry 250-499
 Industry >500
 Industry MNE >500
 Inventor
 Other
 R&D institution
 University

Contact Languages*: English Others: Spanish, French

Certification/Quality standard:

None ISO9000 ECOAUDIT Other, specify:

Already engaged in Trans-National Co-operation:

Yes No

B. Co-operation Proposal - Description of the co-operation sought

Framework Programme*:

- Competitiveness of Enterprises and SMEs (COSME)
- ERC
- Eureka
- Europe in a changing world – inclusive innovative and reflective societies
- European research infrastructures (including e-Infrastructures)
- Excellence science
- Future and emerging technologies
- Horizon 2020
- Industrial leadership
- Industry Academia
- Joint Technology Initiatives
- Leadership in enabling and industrial technologies
- Marie Skłodowska-Curie action
- Nanotechnologies, advanced materials, advanced manufacturing and processing, biotechnology
- The Intelligent Energy Europe Programme

Call Name*

LC-BAT-8-2020 – Next-generation batteries for stationary energy storage

Evaluation Scheme*

RIA – 1 Stage

Estimated Project Budget

EUR 4.5 Million

Coordinator required

Yes

No

Deadline for the Call*

21 April 2020

Funding Scheme*

- Collaborative Projects
- Coordination and Support Actions
- Individual projects: Support for "frontier" research
- Networks of Excellence
- SMEs Instrument
- Support for training and career development of researchers

Project duration

36 months

Web link to the call

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-bat-8-2020>

Project title and acronym

GreenGrid – Salt based conversion batteries for superior electric energy storage.

Title*

Company sought for the engineering and integration of battery cells into packs, for use in combination with photovoltaic panels.

GreenGrid - Salt based conversion batteries for superior electric energy storage.

To be developed under the call:
H2020 – LC-BAT-8-2020 – Next-generation batteries for non-automotive battery storage

Summary* (1-500 characters)

- Country and type of the organization publishing the profile, brief description of the product, applications, competitive advantages and type of co-operation sought.

Full Description* (max 5000 characters)

- Description of the product or service, innovative aspects, potential applications, company experience and type of co-operation sought. Describe here the advantage(s) offered by your company and why it should be selected by the potential business partners. (The description should not include the name of the company)

The GreenGrid project aims at developing, improving and producing highly performing innovative sodium metal batteries, using cheap starting materials and non-aqueous solvent. The technology has already achieved TRL3 level, and will reach TRL5 at the end of the project.

The initial partners in the consortium are

- 1 Spanish Public University (that will coordinate the project)
- 1 Italian Public Research Center
- 1 Spanish Private Research Center
- 4 Companies from Austria, Denmark and Finland.

Some of the partners in the project have previous collaborative experience in the developing of these systems, as well as in other H2020 projects. The companies are industries producing batteries, battery components, and photovoltaic systems for stationary applications.

The consortium will be completed with the incorporation of 1 industrial partner that will lead the engineering and integration of battery cells into packs, for use in combination with photovoltaic panels.

The project activities will focus on:

A) Research for improved cell performance, including electrode materials, electrolytes, separators, additives, cell geometries,...

B) Battery life tests and analysis, including both shelf-life and cyclability.

C) Improvement of battery fabrication procedures.

D) Economical, environmental, safety and life cycle analysis, including recovery and recycling of battery materials such as metals and electrolyte salts.

E) Building and testing of a battery pack demonstrator coupled to photovoltaic panels, and analysis of its performance under real conditions.

The estimated duration of the project is three years, with an estimated total budget of 4.5 Million Euros.

The deadline for submitting proposals for the call is 21/April/2020.

The deadline for the Expression of Interest about this co-operation proposal is 20th March 2020.

Advantages and Innovations (50-2000 characters)

- Innovation aspects of the product compared with other products in the market, principal advantages and economic benefits.

The project results will provide/facilitate:

- Development and production of highly performing NaCl-based batteries, with high round-trip energy efficiency, low battery cost, using cheap, widely available raw materials.

Stage of development*

- Already on the market
- Available for demonstration
- Concept Stage
- Field Tested / Evaluated
- Project Already Started
- Project in Negotiations - Urgent
- Proposal under development
- Prototype available for demonstration
- Under development / lab tested

Comments (optional)

Industrial and Intellectual Property Rights (IPR Status)*

- Copyright
- Design Rights
- Exclusive Rights
- Granted patent or patent application essential
- Other (registered design, plant variety, etc.)
- Patent(s) applied for but not yet granted

- Patents granted
- Secret Know-how
- Trade Marks

Comments (optional):

C. Promotion of the profile

Activity Keywords* (Annex 1 - NACE Keywords):

- Research and experimental development on natural sciences and engineering
- Manufacturing of batteries and accumulators

Market Keywords* (Annex 2):

- *Energy storage (batteries for stationary applications)*

Technology Keywords* (Annex 3):

- *Energy storage (batteries for stationary applications)*

Target countries:

ALL

D. Describe the required characteristics of the potential partner

Type and Role of Partner Sought*

(Description of what is expected from the co-operation partner)

- *PARTNER 1 - Type: Industry*
- *Activity: Battery pack engineering and production*
- *Role: Battery pack engineering, testing and demonstrator production*

Type of client and number of employees:

- Industry SME <= 10
- Industry SME 11-49
- Industry SME 50 – 249
- Industry 250-499

- Industry >500
- Industry MNE >500
- Inventor
- Other
- R&D institution
- University

Attachments

File Size max 4Mb. Only jpg, gif and jpeg files allowed.

Except nominative information, the present co-operation profile will feed the Partnership Opportunities Database (POD) and will be processed and disseminated by the organisations belonging to the Enterprise Europe Network.

I agree I refuse

Enterprise Europe Network Contact details

Enterprise Europe Network partner	ES00575 Universidad de Alicante, Consortium EEN-SEIMED
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