



Joint Call 2019



on Energy Storage Solutions

Welcome! The webinar will start soon.



Webinar on Joint Call 2019



October 2, 2019, 13-14h CEST



Agenda



- About ERA-Net Smart Energy Systems
- Joint Call 2019 on energy storage solutions ("MICall19")
- Knowledge Community & Associated Partners
- Networking & Transnational Cooperation Support
- Q&A





About ERA-Net Smart Energy Systems





A transnational Joint Programming Platform to Initiate Co-Creation and Promote Energy System Innovation



Need for a fundamental transformation of our energy systems towards a sustainable, low carbon and climate friendly economy.

The EU's ambition is to become a leader in renewable energy. Strong, innovative and competitive European companies should provide the technology and services needed to deliver energy efficiency and low carbon energy solutions inside and outside Europe.





A transnational Joint Programming Platform to Initiate Co-Creation and Promote Energy System Innovation

- ERA-Net SES is a Research, Development and Innovation (RDI) initiative.
- It initiates and awards transnational Research, Development and Demonstration (RDD) projects.
- In addition, it shares best practise to build a European Knowledge Community (KC).



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Joint Programming Platform Smart Energy Systems ...



funding partners from 23 European countries and regions

Austria, Croatia, Denmark, Finland, Flanders, France, Germany, Hungary, Ireland, Israel, Italy, Latvia, Lombardy, Norway, Poland, Portugal, Romania, Scotland, Slovenia, Spain, Sweden, Switzerland, the Netherlands, Turkey & Wallonia





05/10/2019



ERA-Net Smart Energy Systems has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No. 64603 and No. 775970.

Joint Programming for Flourishing Innovation:

From Local and Regional Trials towards a Transnational Knowledge Community





Organize the learning to enable the right technologies, market designs and customer adoption to achieve the smart energy system vision & goals of Europe

www.eranet-smartenergysystems.eu







Accelerating the clean energy revolution

25 partners from around the globe



Goal

05/10/2019

Mission Innovation is a global initiative of 24 countries and the European Commission, working to accelerate clean energy innovation.



Australia



Chile



Finland



Indonesia



Morocco



Saudi Arabia



United States



Austria



China



France



Italy



Netherlands



oweden



Brazi



Denmark



Germany



Japan



Norway



United Arab Emirates



Canada



European Union



India



Mexico



Republic of Korea



United Kingdom





2019 Joint Call on Energy Storage Solutions ("MIcall19")









Joint Call 2019

on Energy Storage Solutions

countries and regions from around the globe

>22 M Ebudget



05/10/2019

Joint Call 2019 on Energy Storage Solutions



Deadlines: expression of interest 14:00 CET, November 12, 2019

proposal submission 14:00 CET, January 22, 2020

Compulsory advisory period: September 18, 2019 – January 22, 2020

- Call budget: >22 MEUR
- **Funders**: JPP SES and Joint Call 2019 Funding Partners
- **Transnational projects** Each project must include partners from minimum 2 countries/regions participating in the call.

www.eranet-ses.eu/JointCall19

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What kind of projects are we looking for?



Projects shall develop sustainable integrated energy storage systems for both short- and long-term storage including electrical, electrochemical, material, thermal and mechanical storage. The new solutions for existing energy systems shall contribute to solving challenges defined by Mission Innovation and European roadmaps. Also, solutions shall enable collaboration between stakeholders (e.g. SMEs, organisations and communities). Identifying and involving need-owners is highly encouraged.

Joint Call 2019 on Energy Storage Solutions

This call will support Research, Development and Demo Projects within areas such as:

- Electrical Storage
- Electrochemical Storage
- Thermal Storage
- Mechanical Storage
- Material Storage

Requirements

- ☐ Transnational (at least two independent partners from two different countries)
- Expected TRL 5-8 (lower TRLs may be included)
- Develop clearly defined integrated storage solution
- Replicable and Transferable
- Diversity
- Show critical mass
- National Criteria

Challenges where different types of partners from different parts of society should collaborate to offer solutions to existing energy systems. Examples are, but not limited to:

- balancing output from community scale renewables projects (wind, solar, marine, geothermal) with community scale storage (e.g. batteries, hydrogen, small pumped hydro)

 ?
- using vehicle to grid technology to create a virtual large-scale storage service at district level which could offer a service to grid operators
- integrating thermal storage into individual buildings or district heating systems as a means of absorbing excess renewables on the grid or even a means of seasonal storage of energy at large scale
- Materials and systems engineering research to resolve key technology cost and performance challenges of known and emerging storage technologies. In particular, proposals should aim at new storage technologies with a significant improvement on the reduction of capital cost, increasing system efficiency and extension of life cycle over the state of art performance.
- 'First of a Kind' innovative storage systems



ERA-Net SES – Project outline



Deadline project outline: 12 November 2019

Extent → max 2-3 A4 pages, including:

- scope of the project
- general time-line and goals
- initial project partners
- amount of funding applied for from the individual regional/national funding agencies (including additional/in-kind funding)

Projects start before 15 December 2020, project end by 15 December 2023 (i.e. max duration 36 months, min duration 24 months).



ERA-Net SES – Three Layer Model





Stakeholders / Adoption – overcoming: why do or don't we do it?

(innovation and transition processes with stakeholders, consumer acceptance, education, policy, retail, community and society, social research, etc.)

Goods and Services – structuring: how do we organize it?

(business models, regulatory framework, market design with new goods and services, economic research etc.)

Technology – enabling: which technology do we need?

(incl.: how can we make technologies form other sector available for the energy system? -telecommunications, machine learning, cross energy carrier solutions, grid automation, technological research etc.)

ERA-Net SES – Full Proposal Evaluation



The evaluation and eligibility process comprises three steps:

1. National/regional eligibility check

The projects will be considered on a national/regional basis, governed by national/regional funding agency regulations and relevance.

2. Transnational evaluation of the project proposals

In the evaluation phase a panel of at least three independent experts will evaluate each project proposal. The independent expert panel will evaluate the proposals based on three main criteria:

- a) Excellence
- b) Impact
- c) Quality and efficiency of the implementation

ERA-Net SES – Full Proposal Evaluation



The final step of the evaluation process is a joint meeting of the funding partners consortium to select projects for funding according to the ranked list from the independent experts. The outcome will be reported to the applicants in May 2020.



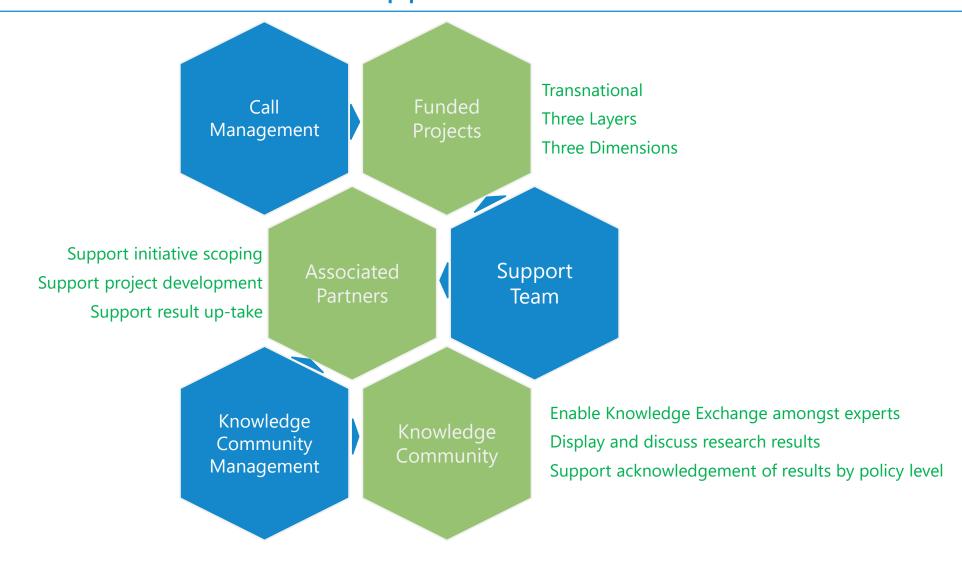




Knowledge Community and Associated Partners



ERA-Net SES universe – the holistic approach

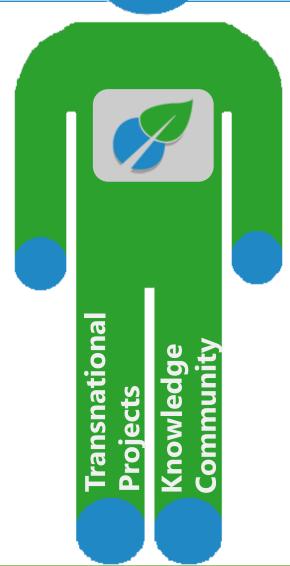


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- Transnational Projects
 - national funding with EU top-up funds
 - selected in ERA-Net SES Calls
 - communication and evaluation by Support Team
- Knowledge Community
 - from and for the ERA-Net SES projects
 - national and international experts
 - unique networking and knowledge base

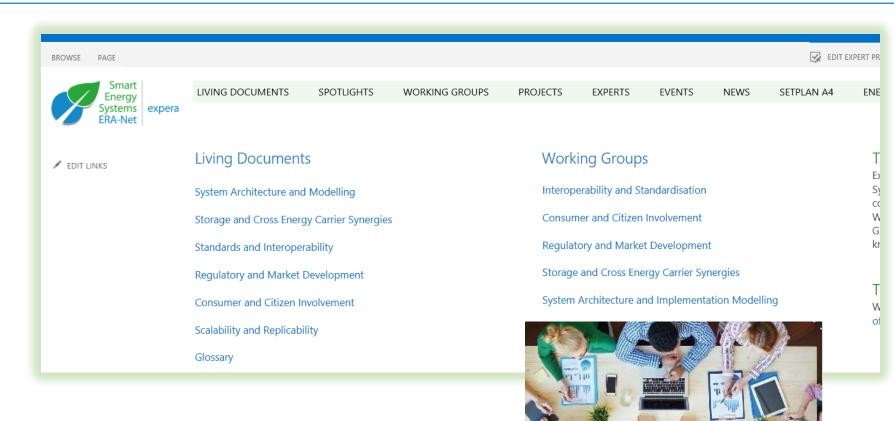
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The Knowledge Platform expera



Members

- ERA-Net SES projects
- (Trans-)National key projects
- International RDD projects
- Smart Grids practitioners
- Agenda setters and policy makers



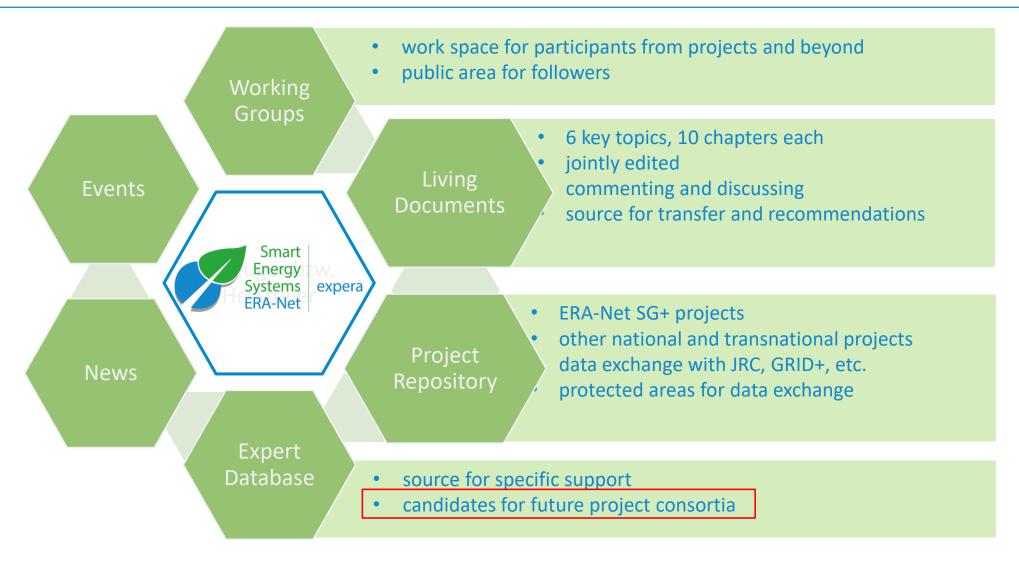
www.smartgridsplus.eu



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MISSION Systems accelerating the clean energy revolution acceleration acceler

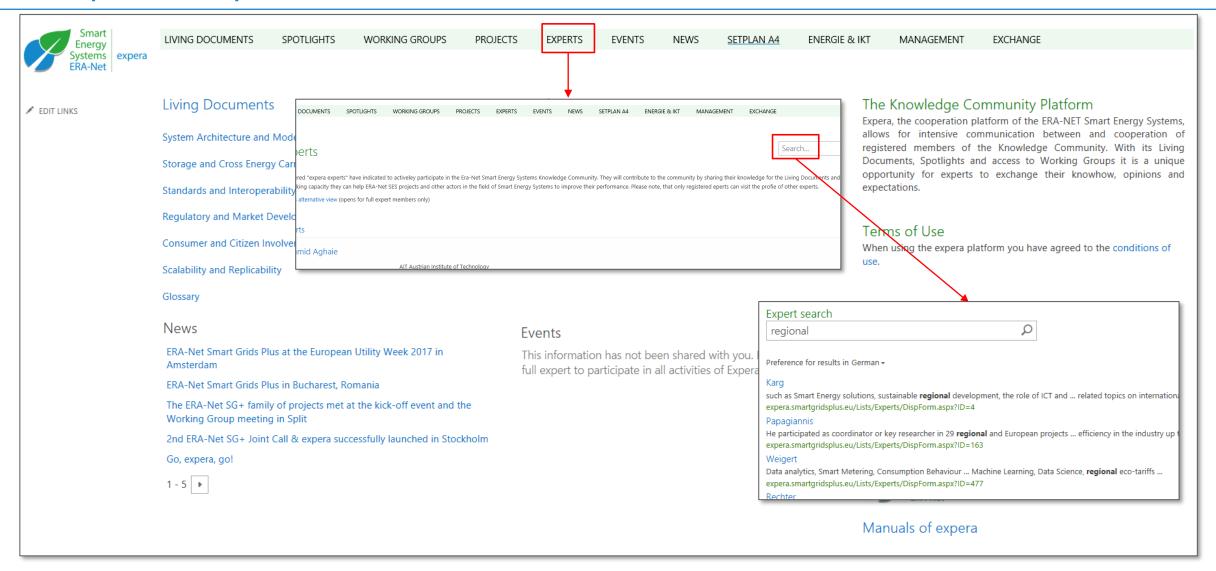
"one-stop shopping": the Knowledge Sharing Platform



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expera – expert search function





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Associated Partners



Joining forces with many kinds of non-funded partners to ...

- jointly foster development of technology and business solutions
- make sure that projects meet real needs of energy efficiency and energy transition processes
- link local and regional level to overall energy system
- connect to business domains way beyond the energy sector
- give RDD consortia confidence that their results will be adopted.

Involvement of stakeholders as Associated Partners does not only improve the quality of the funded RDD projects but increase their overall impact.

Roles of Associated Partners



- provide reach-out beyond involved funding agencies to get good projects and consortial and multiply results
- participate in co-creation of
 - concepts for projects (e.g. in order to get beyond traditional and R&D only approaches
 - solutions during the run-time of a project (e.g. linking consortia to specific supporters)
 - networks and favorable mindsets for the success of the program and its projects
- > shape projects to meet the partners needs at their best
- help start-ups and other candidates with limited experience to apply
- > act as technical enablers (e. g. by providing software modules)
- co-finance ERA-Net SES projects
- support accompanying product development
- help taking solutions developed in ERA-Net SES projects to practice
- provide aggregated input to ERA-Net SES program and projects

marked in blue: key aspects for call



Associated Partners (April 2019)

























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Networking & Transnational Cooperation



Joint Programming Platform – Smart Energy Systems Conference 2019



Launch of the Joint Call 2019

on Energy Storage Solutions







Project Result Pitches

& appraisal by expert panel

Matchmaking

for the Joint Call 2019

Knowledge Community Meetings

with Working Groups and peer feedback





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Join us in Namur, Belgium on October 7-9!

More info and registration on www.eranet-smartenergysystems.eu

ERA-Net SES - Upcoming Events & Matchmaking Opportunities MISSION ERA-N

Further Webinars:

- October 22, 2019, 13:00-14:00 h CEST
- November 26, 2019, 13:00-14:00 h CET

Register <u>here</u>.

Events:

- European Call Launch, 7 October 2019, 16:00-18:00 (CEST) in Namur, Belgium
- Face-2-Face Matchmaking, 8 October 2019, 08:45-13:00 (CEST) in Namur, Belgium
- Find all events on our <u>website</u>.

Online Partner Search and Matchmaking Platform:

- Present your cooperation profile
- > Search & find cooperation partners
- ➤ Link to representatives of the ERA-Net SES community

Register <u>here</u>.



ERA-Net SES – Web Information and Contact Points



ERA-Net SES Website

www.eranet-smartenergysystems.eu

Knowledge Sharing platform expera www.smartgridsplus.eu

LinkedIn

https://www.linkedin.com/in/eranet-smartgridsplus/

Newsletter registration www.eranet-smartenergysystems.eu

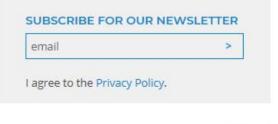
Webinars & other events

https://eranet-smartenergysystems.eu/News Events/Events









Join us on



ERA-Net SES - Contact the Initiative



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Call Management

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Knowledge Community

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Coordination

Austrian Ministry for Transport, Innovation and Technology

Coordinator: Michael Hübner









JPP SES and Joint Call 2019 Funding Partners









Federal Ministry Republic of Austria Transport, Innovation and Technology





Agence de l'Environnement

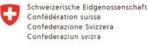
et de la Maîtrise de l'Energie











Swiss Confederation

Innosuisse - Swiss Innovation Agency

















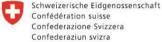


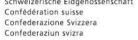












Swiss Federal Office of Energy SFOE





























