



ERA-Net Smart Energy Systems

Horizon 2020 Project Factory On Energy Technologies, 1 October 2019

Laura Börner, B.A.U.M. Consult GmbH Munich ERA-Net SES Knowledge Community Management

B.A.U.M. Consult







members in > 20 countries

action fields	services and activities
Research and Development	Managing projects and programmes on Smart Grids, electric mobility, renewable energies, rural and city development, sustainable development
Consulting for national and local authorities	Creating master plans for city and rural sustainable development, facilitating regional and city development processes, implementing climate protection concepts
Consulting for enterprises	Sustainability strategies and reporting, implementing environmental and energy efficiency management systems, supporting certification processes, technology networking

Examples

B.A.U.M. Consult



Integrated Climate
Protection and Mobility Plans

Smart Energy and Smart Mobility German and European Research







- Funding instruments designed to support public-public partnerships instruments, mainly 'tops-up' funding by EC for single joint calls and transnational actions.
- New Approach to European Partnerships:
 - Co-programmed partnerships
 - Co-funded partnerships
 - Institutionalised partnerships

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







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





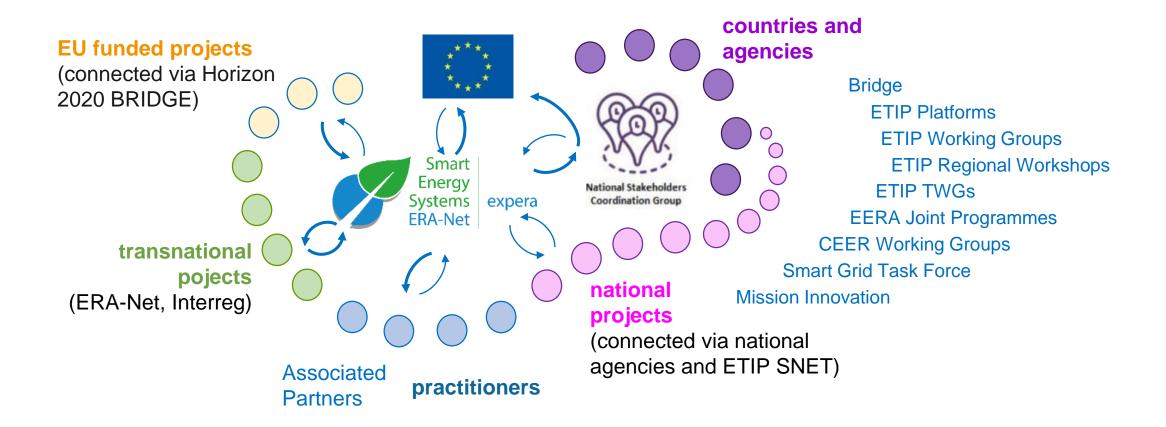
Organize the learning to enable the right technologies, market designs and customer adoption to achieve the smart energy system vision & goals of Europe

www.eranet-smartenergysystems.eu



ERA-Net SES Linking Worlds









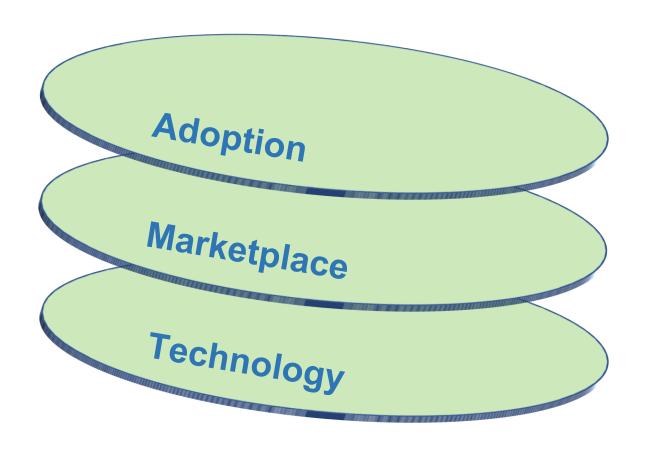




- Transnational Projects
 - national funding with EU top-up funds
 - selected in ERA-Net SES Calls
 - communication and evaluation by Support Team
- Knowledge Community
 - from and for the ERA-Net SES projects
 - national and international experts
 - unique networking and knowledge base

General Principle 1: The three Layer Research Model











General Principle 2: Three Dimensions of Integration



cross sectoral integration:

- transport
- industry and trade
- municipal infrastructure
- agriculture

• ...

local and regional development:

- governance
- planning
- innovation system
- SMEs and startups
- transnational knowledge base

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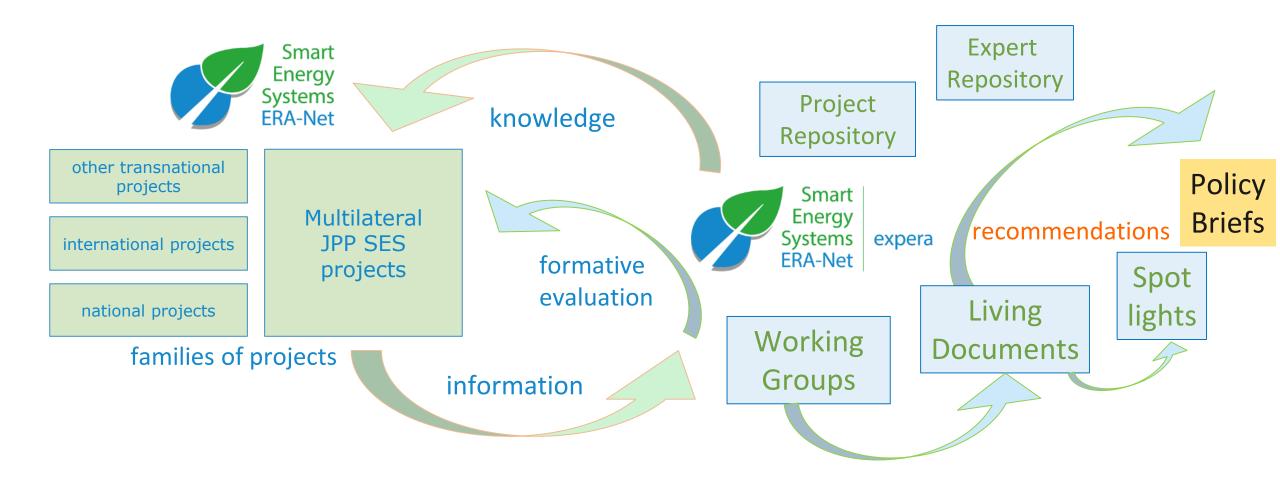
smart energy system:

- renewable energy
- distributed generation
- cross carrier synergies
- automation ...



Managing Projects' Knowledge



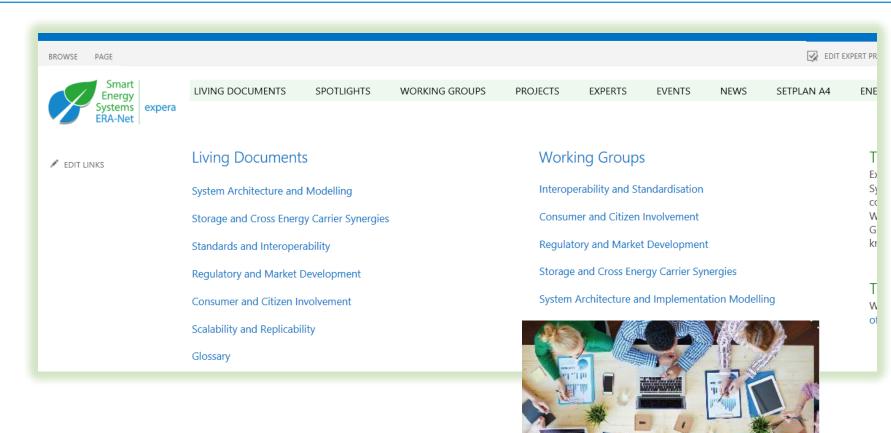


The Knowledge Platform expera



Members

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



www.smartgridsplus.eu



expera

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.



Associated Partners (April 2019)













REGIONALNA ENERGETSKA AGENCIJA NORTH-WEST CROATIA SJEVEROZAPADNE HRVATSKE REGIONAL ENERGY AGENCY













Standortagentur













Focus Initiatives



Smart Grids Plus

(Start 2015)

- 3 multilateral calls
- > 30 projects
- > 80 mio € funds

Integrated Regional Energy Systems

(Start 2018)

- Extended scope sector coupling
- Involvement of Associated Partners
- First multilateral call May 2018 (> 30 mio € funds)

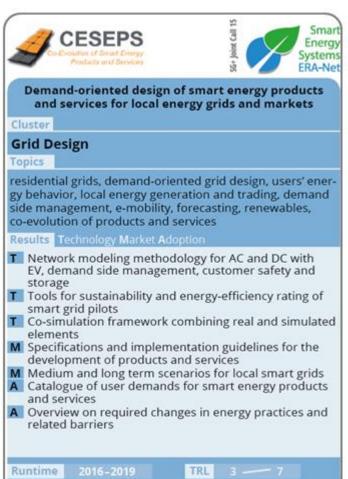
Storage Systems

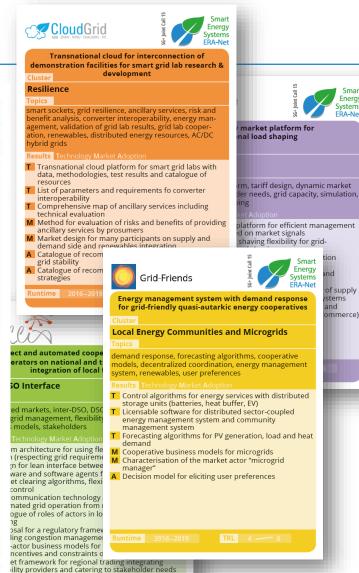
(Start 2019)

- Electrical, chemical, thermal, mechanical
- Multilateral call Autumn 2019
- Together with Mission Innovation (MICall19)



It's not a game ...







- topics
- results
- runtime
- TRL reached
- project consortium
- partners for further development

02.10.2019

lation tool for scenario evaluation





Joint Call 2019



on Energy Storage Solutions

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





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Accelerating the clean energy revolution

25 partners from around the globe



Goal

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







Chile



Finland



Indonesia



Morocco



Saudi Arabia



United States



Austria



China



France



Italy



Netherlands



Sweden



Braz



Denmark



Germany



Japan



Norway



United Arab Emirates



Canada



European Union



India



Mexico



Republic of Korea



United Kingdom



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Joint Call 2019

on Energy Storage Solutions

2 countries and regions from around the globe

>22 **M€** budget



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

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.

www.eranet-ses.eu/JointCall19



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

Upcoming Events & Matchmaking Opportunities



Webinars:

- > October 2, 2019, 13:00-14:00 CEST
- 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
- Matchmaking, 8 October 2019, 9:00-13:00 (CEST) in Namur, Belgium
- > Find all events on our website.

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>.

02/10/2019



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













Contacting the Initiative



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office@eranet-smartenergysystems.eu

Call Management

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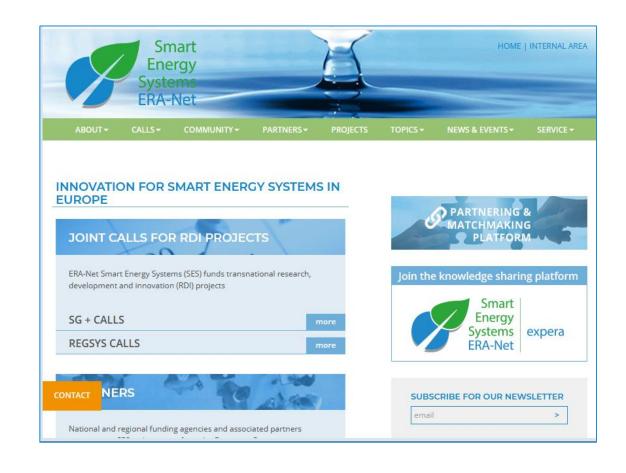
Knowledge Community

knowledgecommunity@eranet-smartenergysystems.eu

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

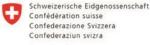
et de la Maîtrise de l'Energie











Swiss Confederation

Innosuisse - Swiss Innovation Agency















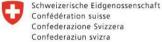












































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