



Smart
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ERA-Net

Webinar on Joint Call 2020

>> MICall20

13 January 2021, 11h-12h CET



Agenda

- About the Joint Programming Platform Smart Energy Systems
- Joint Call 2020 on digital transformation for green energy transition (MICall20)
- Knowledge Community, JPP SES Networks and contacts
- Q&A

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About the Joint Programming Platform Smart Energy Systems



What we are:

-Joint Programming Platform Smart Energy Systems ...

Joint Programming for Flourishing Innovation from Local and Regional Trials towards a Transnational Knowledge Community

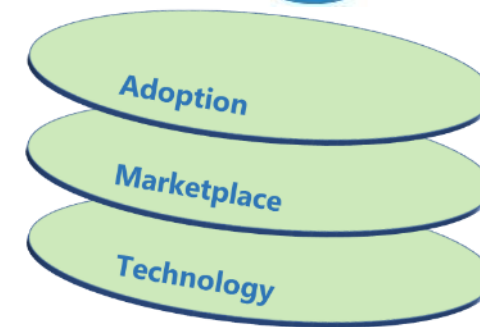
Goal

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

32

funding partners from 29 countries and regions

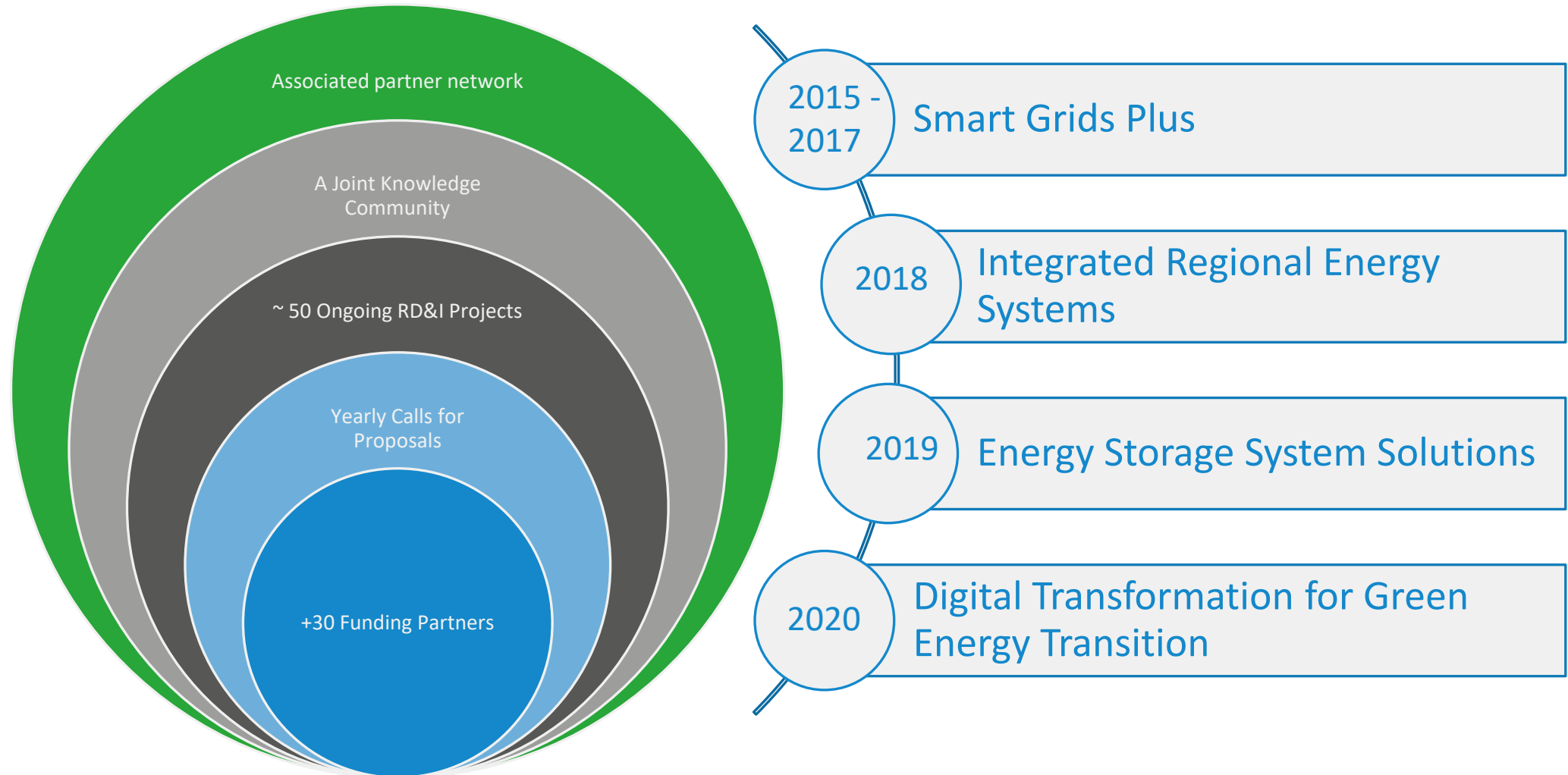
www.eranet-smartenergysystems.eu



ERA-Net Smart Energy Systems has received funding from the European Union's Horizon2020 research and innovation programme under grant agreement No 646039 and No. 775970 and no. 883973.

What we do:

-Enhancing Innovation on Smart Energy Systems

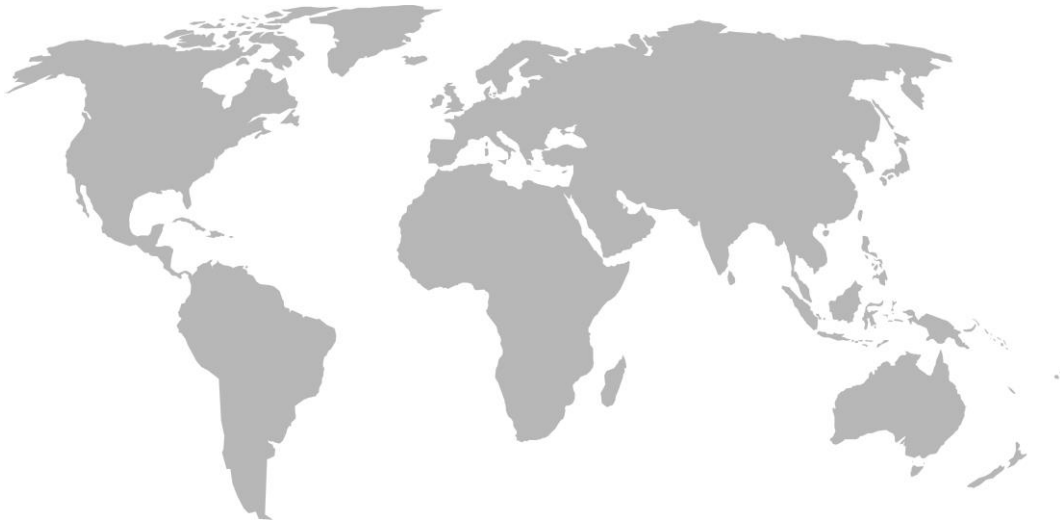


MICall20 in collaboration with



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.



Australia



Chile



Finland



Indonesia



Morocco



Saudi Arabia



United States



Austria



China



France



Italy



Netherlands



Sweden



Brazil



Denmark



Germany



Japan



Norway



United Arab Emirates



Canada



European Union



India



Mexico



Republic of Korea



United Kingdom



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Joint Call 2020 on digital transformation for green energy transition (MICall20)



Joint Call 2020

on digital transformation for green energy transition

18 countries and regions from around the globe and the European Commission

€25Mio budget



ERA-Net Smart Energy Systems has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements no. 646039, no. 775970, and no. 883973.

Organisations from the following countries and regions can apply for funding:



- **Compulsory advisory period:** 14 December 2020 – 6 May 2021
- **Deadlines:** expression of interest 17 February 2021 - 14:00 CET
proposal submission 06 May 2021 - 14:00 CET,
- **Call budget:** € 25 Mio
- **Funders:** JPP SES and Joint Call 2020 Funding Partners
- **Transnational projects**
 - Each project must include partners from at least 2 different countries/regions participating in the call
 - Each project must also include at least 2 partners from EU/EEA Member States

<https://eranet-smartenergysystems.eu/Calls/EnerDigit Calls funding/Joint Call 2020>

- Advance the green energy transition in all sectors of the energy system while ensuring security of supply
- Shaping new transnational business and investment opportunities by sector coupling and development of new value chains in innovative and cost-effective energy solutions, thereby creating new employment opportunities and contributing to the development of an environmentally sustainable financial growth
- Ensuring social sustainability and coherence with digitalisation in other sectors in the progression of the green energy transition

- Projects are expected to address key challenges and opportunities relating to the one or more main objectives, including aspects related to (however not limited to):
 - Social sustainability
 - Energy and ICT infrastructure
 - Energy marketplaces, business models and communication

Co-creation of solutions with need-owners

- “Need-owner(s)” and relevant stakeholders (such as technology and service providers, innovators, start-ups, end-users and communities) should participate in the planned solutions development, demonstration and transfer activities
- Projects are encouraged to engage with existing living labs and digital platform providers, e.g. via ERA-NET SES network of partners in Living Labs and Digital Platform Providers:
 - https://www.eranet-smartenergysystems.eu/Partners/Living_Labs
 - https://www.eranet-smartenergysystems.eu/Partners/Digital_Platform_Providers

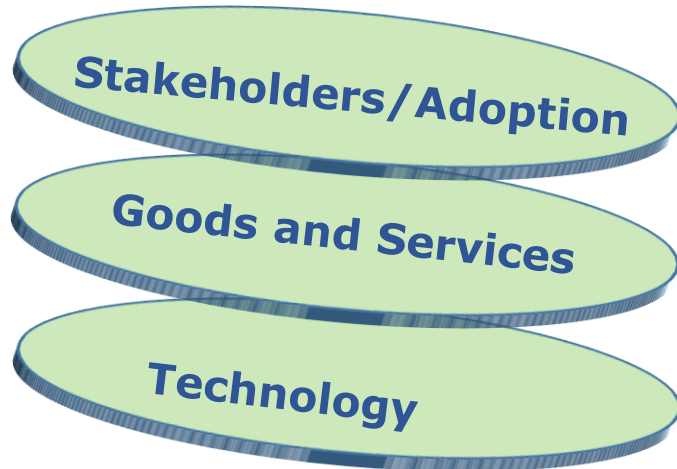
Requirements

- Transnational (at least two independent, active* partners from two different countries, including at least two partners from EU/EEA Member States)
- "Fallback strategy"
- Expected TRL 4-8 (lower TRLs may be included)
- Three-Layer Research Model
- Equality and Diversity Perspectives
- Climate Impact of Project Implementation
- National Criteria

*Active partners are partners applying for funds



JPP 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?*

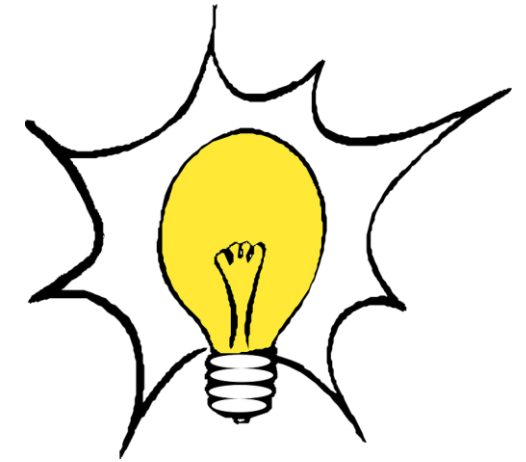
(incl.: how can we make technologies from other sectors available for the energy system? -telecommunications, machine learning, cross energy carrier solutions, grid automation, technological research etc.)

JPP SES – Compulsory registration of interest

Deadline for compulsory registration of interest (17 February 2021 - 14:00 CET)

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 June 2022, project end by 15 June 2025
(i.e. max duration 36 months, min duration 24 months).

JPP 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

3. **Funding partners selection and outcome**

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 November 2021.



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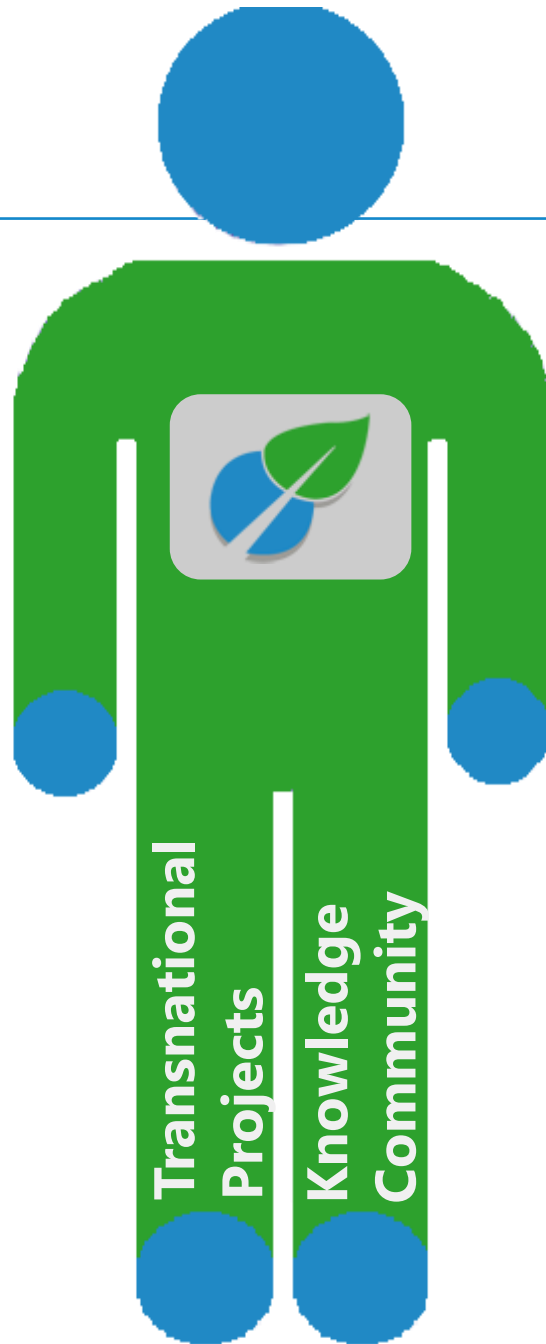


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Knowledge Community and JPP SES Networks

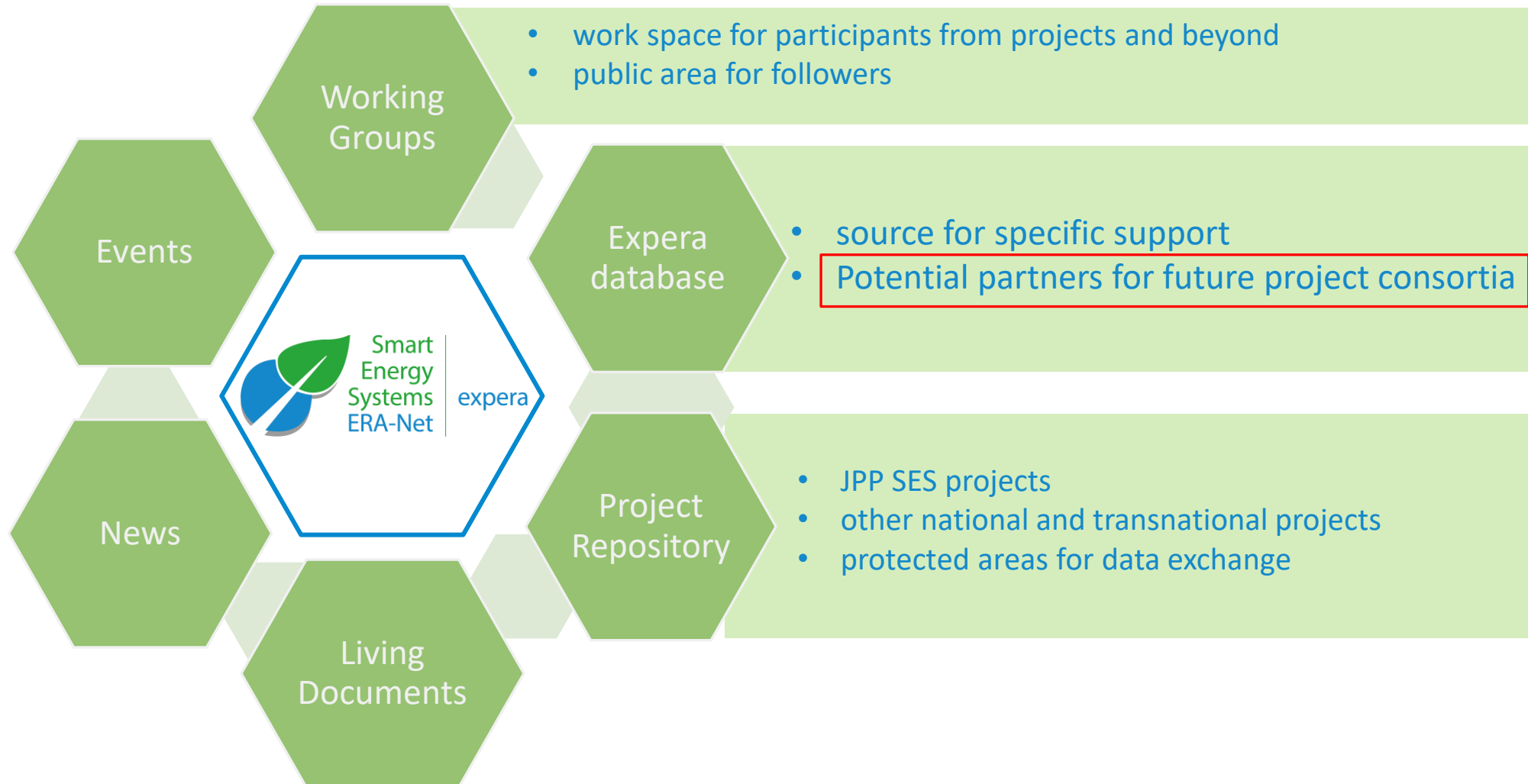


The two pillars of JPP SES



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

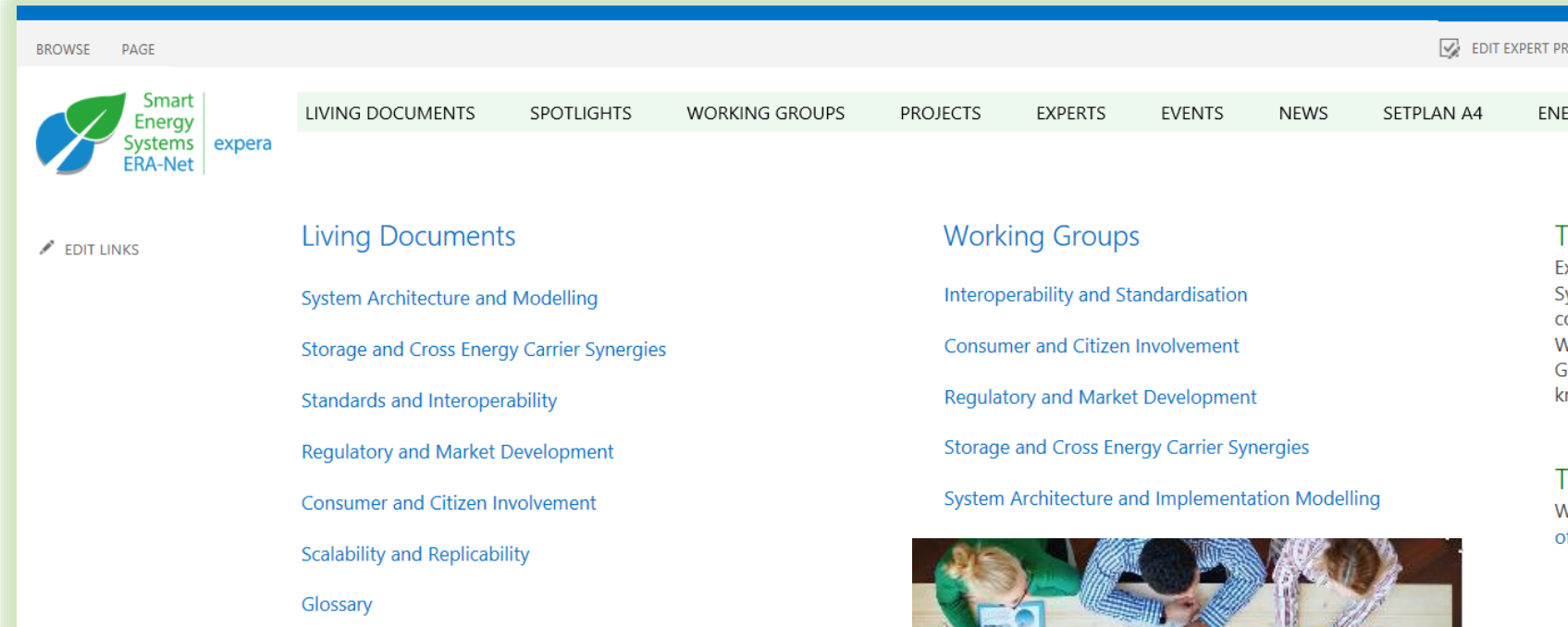
„one-stop shopping“: the Knowledge Sharing Platform



The Knowledge Sharing Platform *expera*

Members

- JPP SES projects
- (Trans-)national key projects
- International RDD projects
- SES practitioners
- Agenda setters and policy makers



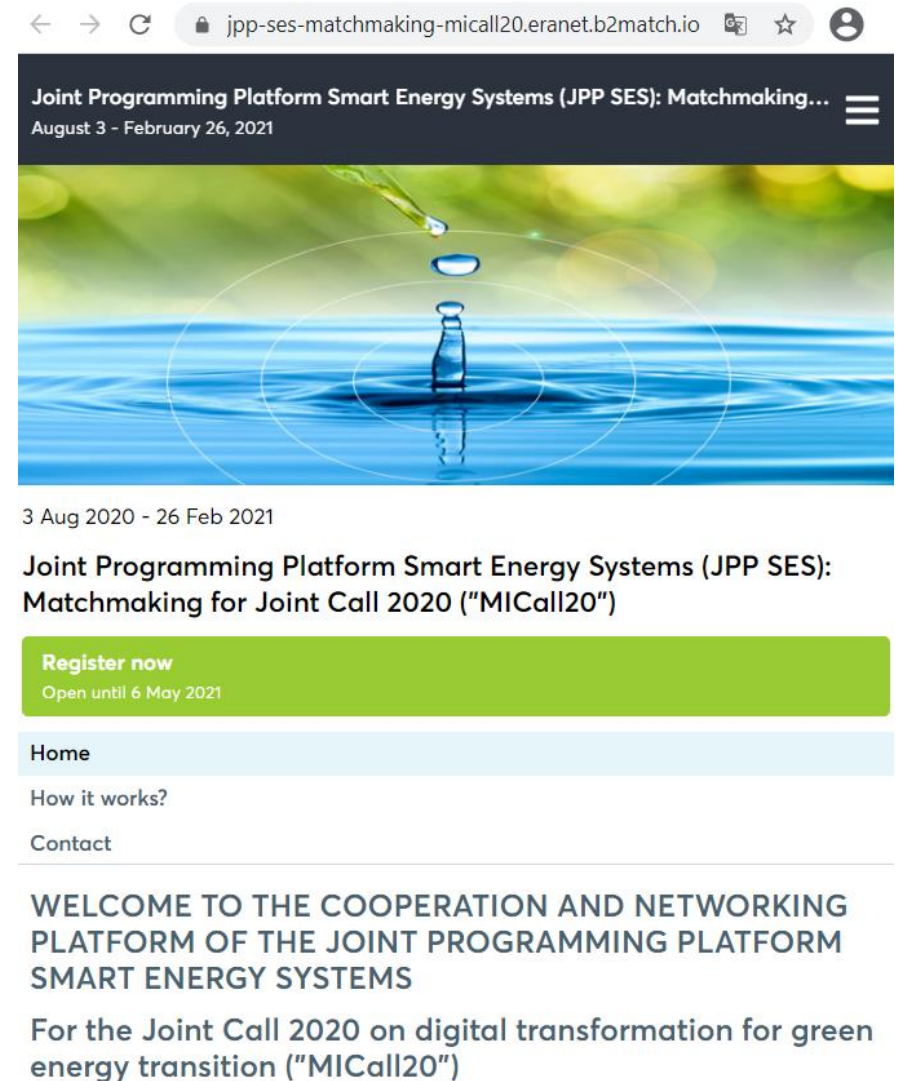
www.smartgridsplus.eu



Find partners: Matchmaking platform

- Find partners for your project
- Contact and organise meetings with potential partners
- Give visibility to your project idea

<https://jpp-ses-matchmaking-micall20.eranet.b2match.io/>



The screenshot shows a web browser displaying the matchmaking platform. The browser address bar shows the URL: jpp-ses-matchmaking-micall20.eranet.b2match.io. The page title is "Joint Programming Platform Smart Energy Systems (JPP SES): Matchmaking..." with a subtitle "August 3 - February 26, 2021". The main visual is a blue water droplet falling into a pool of water, creating ripples. Below the image, the dates "3 Aug 2020 - 26 Feb 2021" are displayed. The main heading is "Joint Programming Platform Smart Energy Systems (JPP SES): Matchmaking for Joint Call 2020 ('MICall20')". A prominent green button says "Register now" with the text "Open until 6 May 2021" below it. A navigation menu includes "Home", "How it works?", and "Contact". The main text on the page reads: "WELCOME TO THE COOPERATION AND NETWORKING PLATFORM OF THE JOINT PROGRAMMING PLATFORM SMART ENERGY SYSTEMS" followed by "For the Joint Call 2020 on digital transformation for green energy transition ('MICall20')".

Supporting networks for project applicants and partners

- Digital Platforms Providers
- Validation Network with Living Labs & Testbeds
- Associated partners

Digital Platform Providers (DPP)

- What are the **Digital Platform Providers**?

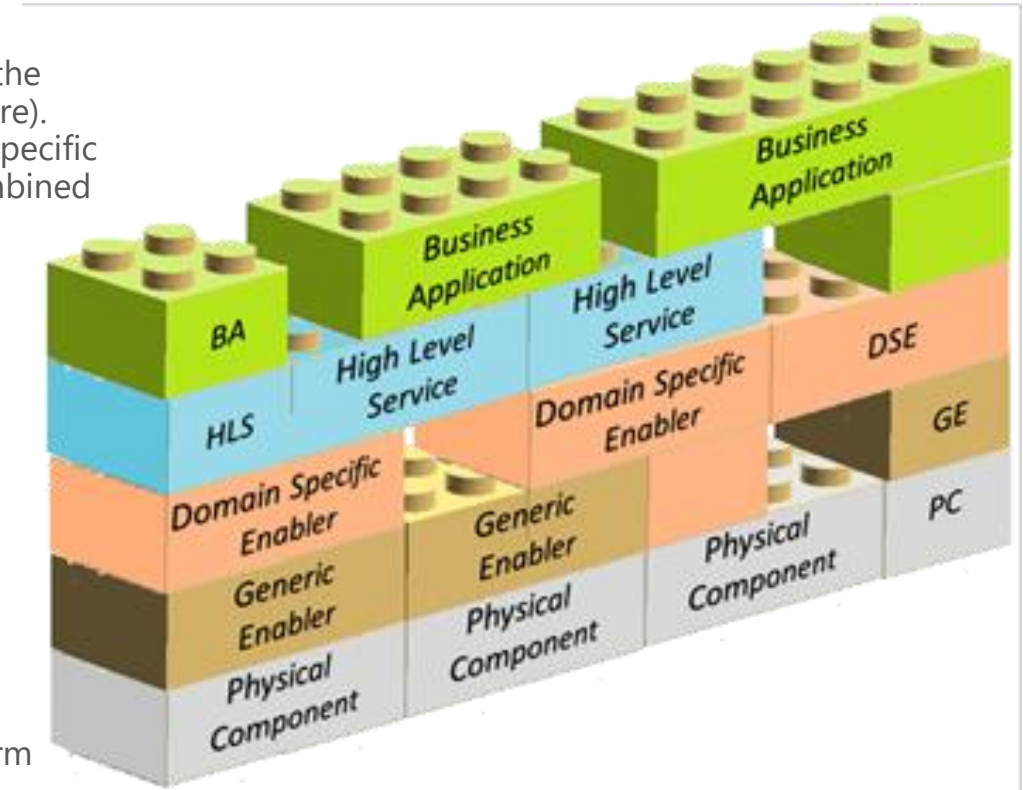
DPPs often display a layered architecture with highly standardized interfaces between the layers allowing for the implementation of a variety of services on many levels (see Figure). Some provide a comprehensive platform covering 4-5 layers, while others offer more specific solutions, e.g. domain specific enablers and some generic enablers which must be combined with elements of other DPPs.

- What do they **offer to the project applicants and partners**?

- source code, free for JPP SES or with remuneration fee
- software as a service, free or with remuneration fee
- executable package with interfaces
- lab or field installation to be used by JPP SES project, with support, free of charge or against service charge

- **The Digital Platform Providers benefit** from

- early access to JPP SES initiative and excellent consortia
- high visibility by formal descriptions of the value propositions on DPP platform
- matchmaking opportunities etc.



More information on the DPP services and contacts here:

<https://www.eranet-smartenergysystems.eu/Partners/Digital Platform Providers>

Validation network with Living Labs & Testbeds

- What are the **Living Labs and Testbeds**?

Living Labs: user-centred and open innovation ecosystems often operating in a territorial context (e.g. city, region), integrating concurrent research and innovation processes (co-creation), potentially relying on a public-private-people partnership.

Testbeds: technological testing, piloting and demo-infrastructures which are connected to a real-life energy system.

- What do they **offer to the project applicants and partners**?
 - Testing the technical feasibility of developed technological innovations and validating their interoperability
 - Studying customer perceptions on new technologies and services
 - Validating customer acceptance for new solutions
- **The Living Labs and Testbeds benefit** from
 - early access to JPP SES initiative and excellent consortia
 - access to networking and co-creation activities
 - matchmaking opportunities etc.

More information on the Living Labs and Testbeds services and contacts here:

https://www.eranet-smartenergysystems.eu/Partners/Living_Labs

Information card DPPs & LL

- ABOUT
- CALLS
- COMMUNITY
- PARTNERS**
- PROJECTS

Partner Name and Mission

	4Cast GmbH & Co. KG The 4Cast platform allows for scheduling renewable power and thus making it more valuable. It is based on machine learning, meteorological data banks and historical power generation data.
	Center Denmark Center Denmark unifies research results from the country's four major technical universities on the digitalization of energy systems and makes it accessible to industry and other interested parties
	CGI CGI is among the largest IT and business consulting firms in the world. It has been delivering end-to-end services and strategic IT solutions to the energy and utility sector for over 40 years
	Energenius Srl Energenius is an innovative small-scale start-up that offers a unique offer of energy consultancy by combining hardware market products for energy monitoring systems and advanced software solutions
	EnerIT Innovation Ltd. EnerIT is an innovative Hungarian-Austrian company with its own novel IoT Smart Energy Portfolio for managing energy consumption and subsequently reducing costs and increasing environmental awareness
	Engineering DSS GmbH Engineering DSS designs, develops, and manages innovative digital solutions for modernizing today's world with a focus on smart energy and utilities. It is also an experienced partner in R&D projects

Find DPPs & LLs on JPP ERA-Net SES website under "Partners". Click on the logo for more information

Get in contact with a DPP or LL

100% RENEWABLE DISTRICT HEATING LEIBNITZ

DESCRIPTION

In co-operation of two different district heating (DH) operators the DH supply of the city of Leibnitz and the surrounding municipalities will be massively expanded over the next few years. The future DH system shall be supplied with 100% renewable energy from biomass and industrial waste heat. The central approach to achieve this, is to merge the two heating networks in order to enable the mutual exchange of heat to ensure an efficient, resource-saving supply. Particularly in winter, the northern operator (NO) provides heat from biomass to the southern operator (SO) on weekends when the TKV is out of operation, minimizing the gas boiler operation of the SO. In summer, the industrial excess heat, which cannot be utilized by the SO is distributed to the NO, which saves biomass feedstock. This operation strategy shall be embedded within an overall smart control system considering additional measures.

AREAS OF SPECIAL COMPETENCE

Smart municipal DH system as result of a merge of currently independent DH systems, covering distributed energy conversion facilities, industrial waste heat extraction, cascade heat supply, smart control, bidirectional heat transfer, etc.

WHAT CAN BE TESTED

The living lab will provide different possibilities to advance green energy transition in the district heating system of the City of Leibnitz while ensuring security of supply by different measures. These measures may include smart sector integration & using synergies with other infrastructures. Furthermore, user and stakeholder integration will take place.

AVAILABLE INFRASTRUCTURE

2 biomass heating plants (4 boilers, flue gas condensation), waste heat recovery (rendering plant), excess heat (biogas CHP plant), 4 thermal energy storages (3 additional storages with planned), 35 km of DH network.

HOW TO GET STARTED WITH US

Please use the contact data given for the Living Lab. For further information please visit <https://thermafex.greenenergylab.at>.

PRICING MODEL

Due to the different measures taken place within the living lab no specific costs can be mentioned and depends on the point of interest and will be defined individually with each partner of interest.

Selected Partner Contact

LEIBNITZ | 100% RENEWABLE DISTRICT HEATING

Leibnitz, Austria

Responsible organisation: AEE - Institute for Sustainable Technologies, Austria

Joachim Kelz
Ingo Leusbrock

CONTACT VIA EXPERA

CONTACT VIA B2MATCH

PARTNERING & MATCHMAKING PLATFORM

Join the knowledge sharing platform

Smart Energy Systems ERA-Net | expera

Joint Programming Platform Smart Energy Systems - Online

ERA-Net SES Website and newsletter registration

www.eranet-smartenergysystems.eu

Knowledge Sharing platform expera

www.smartgridsplus.eu

Matchmaking platform

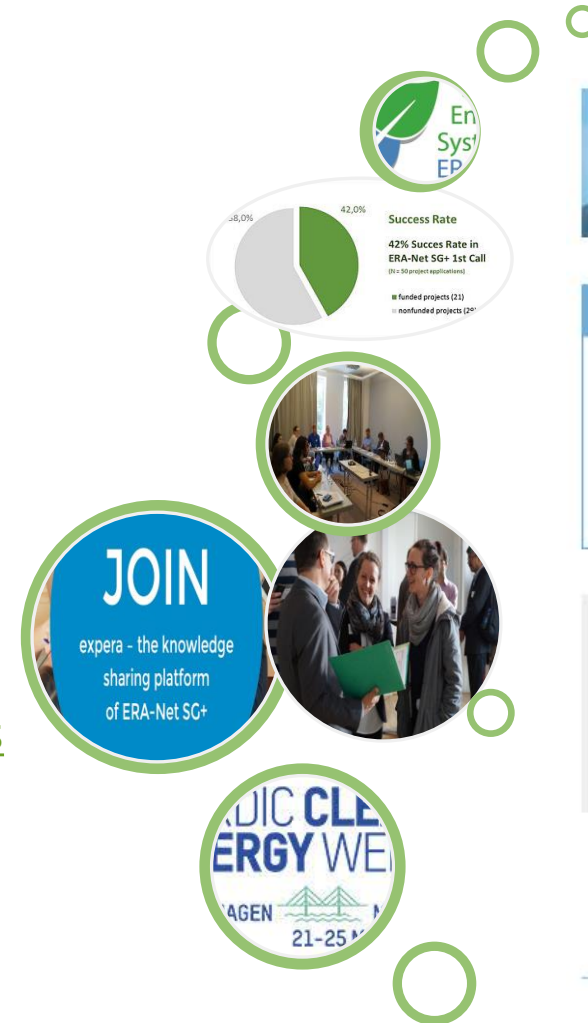
<https://jpp-ses-matchmaking-micall20.eranet.b2match.io/>

LinkedIn

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

Webinars & other events

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



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ERA-Net SES - Contact the Initiative

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Call Management

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Knowledge Community

knowledgecommunity@eranet-smartenergysystems.eu

Coordination

Austrian Federal Ministry for Climate Action

Coordinator: Michael Hübner

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Q&A



Funding Partners



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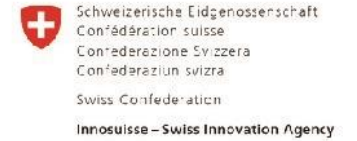
This initiative has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements no. 646039, 775970 and 883973.



Agence de l'Environnement
et de la Maîtrise de l'Energie



FOND ZA ZAŠTITU OKOLIŠA I
ENERGETSKU UČINKOVITOST



MINISTERUL EDUCAȚIEI ȘI CERCETĂRII



REPUBLIC OF SLOVENIA
MINISTRY OF
INFRASTRUCTURE

