



## **European Research Area Network – Smart Grids Plus**

Call for proposals

<b>ERA-Net Smart Grids Plus Launch Event</b>	12 – 13 March 2015, Vienna, Austria
<b>Advisory period</b>	23 March 2015 – 21 April 2015
<b>Project outline proposal deadline</b>	8 April 2015, 14:00 CET
<b>Full project proposal deadline</b>	2 June 2015, 14:00 CET

**This project will be supported by funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 646039.**



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ERA-Net Smart Grids Plus is an initiative of funding programmes from 20 European countries and regions, co-funded by the European Commission under the European Union's Horizon 2020 research and innovation programme (topic LCE-18-2014, ERA-Net Co-fund). The overall goal of ERA-Net Smart Grids Plus is to support deep knowledge-sharing between European smart grids initiatives by promoting and financing joint projects. This document is an invitation to respond to the 2015 joint transnational call for smart grids projects in Europe. The total available budget is approximately €40 million.

<b>Call launch</b>	30 January 2015
<b>ERA-Net Smart Grids Plus Launch Event</b>	12 – 13 March 2015, Vienna, Austria
<b>Advisory period</b>	23 March 2015 – 21 April 2015
<b>Project outline proposal deadline</b>	8 April 2015, 14:00 CET
<b>Full project proposal open</b>	9 April 2015
<b>Full project proposal deadline</b>	2 June 2015, 14:00 CET
<b>Expected project start</b>	1 February 2016 – 1 April 2016

**Please note that the Project outline proposal is a prerequisite for submission of a Full project proposal.**

Project proposals have to be submitted electronically. More information, as well as the online Electronic Submission System, can be found at the ERA-Net Smart Grids Plus website: [www.eranet-smartgridsplus.eu](http://www.eranet-smartgridsplus.eu)

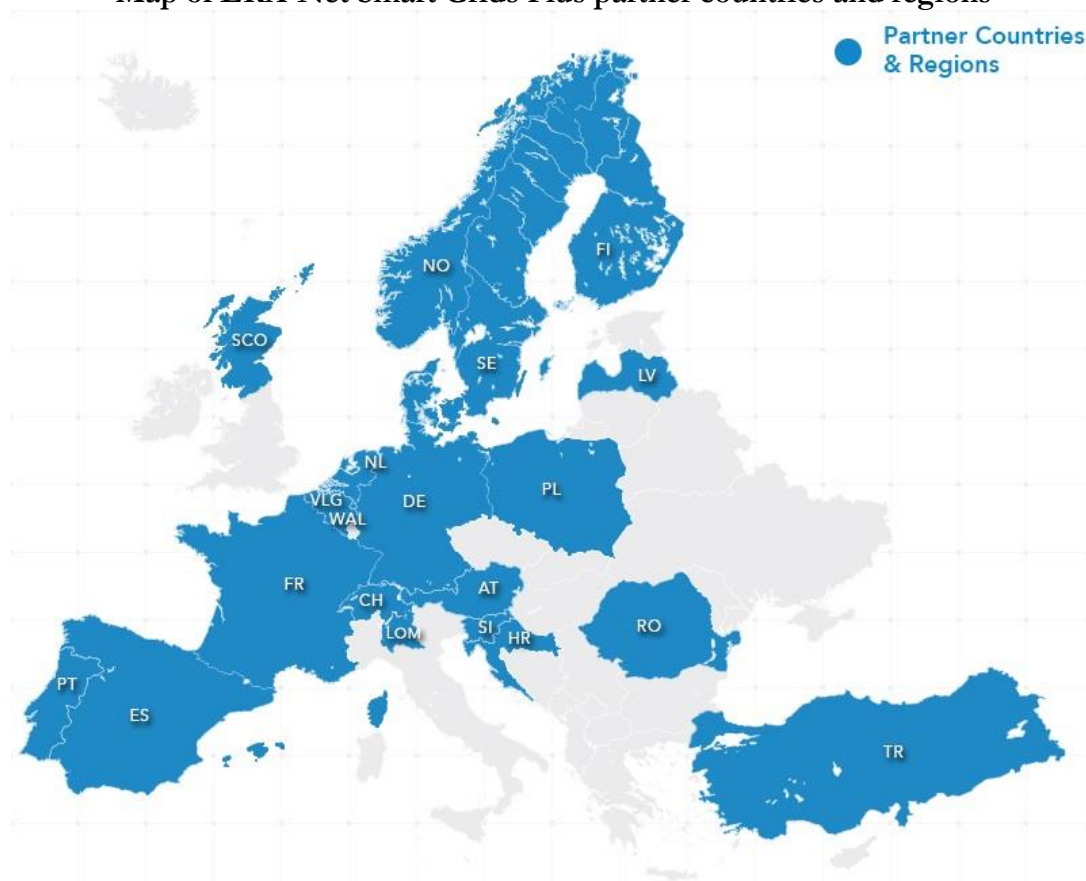
# 1. Background

The challenges of modernising the electricity grids in Europe lies in enabling an increased flexibility of the European power system, efficiently providing increased transfer capacity and enabling an active participation of users and new market actors (by providing information, services, market architectures and privacy guarantees).

Addressing these challenges will require innovation and development in several areas such as system integration, interoperable technologies, services, tools, coordination schemes, business processes, market architectures and regulatory regimes. The purpose is to be able to plan, build, monitor, control and safely operate end-to-end networks in an open, competitive, decarbonised, sustainable and climate-change resilient market. Further, it is important that this is enabled under both normal and emergency conditions. Fragmentation of knowledge must also be addressed through accelerating knowledge exchange between demonstration projects and RD&D (Research, Development and Demonstration) initiatives, in order to develop of European wide interoperable solutions based common reference architecture. Overcoming these challenges will help realise the critical mass needed to establish a European market for smart grid technologies and services.

This initiative does not intend to find the final specifications for smart grids, but rather to organise learning down to regional smart grids stakeholders, beyond the piloting and demonstration phase contributing towards implementation. The overall goal of the ERA-Net Smart Grids Plus is to support deep knowledge-sharing between regional and European smart grids initiatives through financing transnational projects on applied research, piloting and demonstration in the field of smart grids, to build on the knowledge base of RD&D initiatives and R&D facilities in place at a regional, national and European level.

**Map of ERA-Net Smart Grids Plus partner countries and regions**



<b>ERA-Net Smart Grids Plus partners</b>	
<b>Country/region</b>	<b>Organisation name</b>
Austria	Austrian Federal Ministry for Transport, Innovation and Technology
Austria	Austrian Research Promotion Agency
Croatia	Environmental Protection and Energy Efficiency Fund
Denmark	Energinet.dk
Finland	Finnish Funding Agency for Technology and Innovation
Flanders (Belgium)	Agency for Innovation by Science and Technology
France	French Environment and Energy Management Agency
Germany	Forschungszentrum Jülich GmbH
Latvia	Latvian Academy of Sciences
The Netherlands	Netherlands Organisation for Scientific Research
Norway	Research Council of Norway
Poland	National Centre for Research and Development
Portugal	Foundation for Science and Technology
Romania	Executive Agency for Higher Education, Research, Development and Innovation Funding
Romania	Ministry of National Education
Scotland (UK)	Scottish Enterprise
Slovenia	Ministry of Infrastructure
Spain	Centre for Industrial Technological Development
Sweden	Swedish Energy Agency
Switzerland	Swiss Federal Office of Energy
Turkey	The Scientific and Technological Research Council of Turkey
Wallonia (Belgium)	Public Service of Wallonia

## 2. Aim

The ERA-Net Smart Grids Plus will advance the integration of smart grids system technologies, stakeholder adoption and market processes to help Europe make progress towards achieving its short-term 2020, medium-term 2035 and long-term 2050 energy targets. Cross-sectorial and interdisciplinary system innovation will be essential to realising these targets.

## 3. Scope and ambition

ERA-Net Smart Grids Plus will promote piloting and demonstration in the field of smart grids, with a focus on validation, scale-up and replication, integrating the three research layers of *Stakeholder/Adoption*, *Marketplace* and *Technology* (see section 3.1), aiming at pushing solutions meeting Technology Readiness Levels (TRLs, see definitions in Annex C) 5-6 to TRLs 6-7.

***The main challenges are:***

1. Enabling an increased flexibility of the power system to cope with the growing share of intermittent, variable and decentralised renewable generation and managing the complex interactions.
2. Increase network capacity to support increased generation and transmission resulting from renewables and in support of the internal energy market.
3. Provide information, services, market architectures and privacy guarantees to support open markets for energy products and services, whilst facilitating the active participation of customers.

The scope and ambition are defined on the basis of:

- The existing European roadmaps and implementation plans concerning smart grids, i.e.:
  - The EEGI Research and Innovation Roadmap 2013-2022.
  - The ENTSO-E Research and Development Implementation Roadmap 2013-2022.
  - The ENTSO-E Implementation Plan 2015-2017 and the Smart Grids Strategic Research Agenda (SRA) 2035 with its Priorities defined by the European Technology Platform Smart Grids, also taking into account necessary updates according to the Integrated Roadmap, GRID+ and Mapping and Gap Analysis EEGI Member States Initiative 2012.
- Existing national/regional smart grids demonstration (e.g. transfer of results, new developments/demonstrations, scalability, replicability, interoperability and validation). This can relate to previous background material on European smart grids projects and the areas of interest for transnational cooperation identified in the preparation process of the ERA-Net Smart Grids Plus initiative<sup>1</sup>.
- Adhering and/or demonstrating applicability to the Three Layer Research Model described below (section 3.1).
- The transnational added value of European smart grids projects.

### **3.1 Three Layer Research Model**

In order to move forward in the current multi-dynamic research and development environment it is necessary not only to continue developing and introducing the right enabling technologies, but also to develop and structure the market with new goods and services and to learn more about how to overcome barriers built into communities and society. The essential innovations to be achieved can be seen in three layers:

***Stakeholders/Adoption***

- *Goal:* overcome barriers to widespread user adoption.
- *Research targets:* people, community, stakeholders, society, industry.
- *Typical topics:* innovation and transition, consumer acceptance, prosumer interaction, education, policy, retail, community/society, human behaviour, privacy, business modelling methods, social research, etc.
- *Necessity for transnational cooperation:* practices are different all over Europe and essential experiences can be gained through this diversity (comparisons, similarities,

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<sup>1</sup> For all background material, see [www.eranet-smartgridsplus.eu/downloads/](http://www.eranet-smartgridsplus.eu/downloads/)

differences, etc.). Such cooperation will comprise findings sharing on, for instance, typical observed behaviours.

### **Marketplace**

- *Goal:* create solutions for energy market participants to leverage smart resources across national borders and participate in changing energy market structures
- *Research targets:* goods and services.
- *Typical topics:* retail market and interfaces, business modelling methods, standards, abolition of barriers between European countries, prosumer interaction, forecast, demand side management, integration of microgrids, flexibility, energy exchange with neighbours, economic research, etc.
- *Necessity for transnational cooperation:* smart technologies create stability challenges in all countries and divergent solutions lead to market failure at borders. Such cooperation will comprise several projects by transnational consortia on convergent issues and different aspects of future energy market structures.

### **Technology**

- *Goals:*
  - Develop innovative technological concepts for sustainable energy systems (Low TRL).
  - Bring these solutions towards a transnational Proof of Concept and possibly Demonstration (Medium TRL).
  - Try to bridge the “valley of death” by accompanying measures such as solving practical implementation issues or studying the potential and barriers for the innovative technologies in question.
- *Research targets:* (energy and ICT) technology.
- *Typical topics:* energy storage, ICT aspects, balancing, HVDC, power quality, integration of microgrids, standards, security, energy exchange with neighbours, integration of renewable energy sources, power system planning, big data, etc.
- *Necessity for transnational cooperation:*
  - It integrates a wider range of requirements to a technical solution that leads to better scalability and transferability.
  - Transnational consortia have a better chance to sustainably disseminate their findings to a wider audience for SMEs, transnational cooperation can open wider markets for innovative technologies.

The ERA-Net Smart Grids Plus initiative aims to promote projects that cover more than one of these three research layers. Such projects shall be given priority over single layer (e.g. technology only) projects. Projects that cover only levels *Stakeholder/Adoption* and/or *Marketplace* should have a clear link to technology projects via substantial cooperation/analysis.

## **3.2 Knowledge Community**

The ERA-Net Smart Grids Plus Coordination will implement advanced and innovative follow-up, monitoring and transfer activities to create an ERA-Net Smart Grids Plus Knowledge Community. It intends to work with the ERA-Net funded transnational projects via working groups and living documents, and to implement an interactive, formative evaluation process. By this, projects will be enabled to monitor their progress and results, emphasising and fostering interoperability, scalability and replicability of the results and solutions deployed on a national and European level. Moreover the ERA-Net Smart Grids Plus Knowledge Community will link experts of ERA-Net Smart Grids



Plus projects (intranlink) and actors of other smart grids projects, but also beyond that, involving disciplines and backgrounds such as policy makers, stakeholder organisations, SMEs, academia etc. from outside the ERA-Net community (extralink). The Knowledge Community will be organised by the ERA-Net Smart Grids Plus Support Project. In its work, it will refer to the European knowledge base (e.g. findings, resources and expertise from the EEGI, GRID+, FI-PPP, SG Task Force, CEN/CENELEC/ETSI working group, CEER, etc.) Establishing a knowledge community will also allow to continuously derive strategic knowledge for policy makers and Program Managers/Owners, EU level representatives as well as stakeholders, already throughout the projects' duration.

**The Knowledge Community is an integral part of the ERA-Net Smart Grids Plus concept and it is therefore important that applicants fully consider this concept and its content when formulating the project proposal.**

Applicants for this call should be aware that they will be expected to participate in the ERA-Net Smart Grids Plus Knowledge Community. Cooperation and facilitation in the above-mentioned activities are mandatory for all projects funded by the ERA-Net Smart Grids Plus. The final organisation and execution of the abovementioned activities will be the result of an iterative process between the Support Project and each funded project as applicable. Projects will be called in Proposal phase 2 (see section 6.1) to implement a respective mandatory work package in the final Full project proposal. In the design of their own dissemination and exploitation strategies projects should take into account potential synergies with and contribute to the ERA-Net Smart Grids Plus Knowledge Community.

## 4. Eligibility

The following eligibility criteria apply for project proposals in the ERA-Net Smart Grids Plus call:

1. Project must be transnational by nature, involving at least two (three, if a partner comes from Switzerland) independent entities and from at least two (three, if a partner comes from Switzerland) different countries of the ERA-Net Smart Grids Plus partners.
2. Project must submit a Project outline (as described in section 6.1.1 'Project outline proposal') prior to the deadline (8 April 2015, 14:00 CET).

Project partners are strongly encouraged to contact their national/regional contact points during the Advisory period.

**National/regional eligibility criteria are additional and separate to the ERA-Net Smart Grids Plus eligibility criteria given above.**

A summary of national/regional eligibility requirements is provided under Annex A, but it is essential that applicants familiarise themselves with their respective funding agency's rules and contact their national/regional contact point during the Advisory period for clarifications prior to submitting a Full project proposal.

## 5. Desirable characteristics of projects

The ERA-Net Smart Grids Plus partners have established a set of desirable characteristics for project proposals. The four typical project types are outlined below. It is important to note that these characteristics are non-binding examples of possible approaches to project proposals, and are constructed as guidance to applicants. They do neither constitute eligibility nor evaluation criteria.

### 1. Further or new development of technologies and concepts

Building on the outcomes, developments and validations of existing demonstration projects, smart grids technologies are further developed from the current state of play.

*Characteristics:* Improvement, reengineering, scaling-up etc. Outcomes are ideally demonstrated or validated in the elaborated and experienced environment of an involved demonstration project (preferred to greenfield demonstration projects, if it can build on the assets from the existing demonstration). It is desirable to have at least one existing demonstration project and two or more ERA-Net partner countries/regions involved.

### 2. New demonstration project

New demonstration, building on other existing demonstration projects, i.e. development, validation and demonstration in a new demonstration environment and/or site by using replication.

*Characteristics:* Technologies and concepts are demonstrated or validated the first time, as appropriate e.g. by using the elaborated and experienced environment of an existing demonstration project (preferred to greenfield demonstration projects, if it can build on the assets from the existing demonstration), or e.g. technologies and concepts from an existing project are replicated in a new environment. It is desirable to have at least one existing demonstration project and two or more ERA-Net partner countries/regions involved.

### 3. Comparative validation of technologies and concepts of existing demonstrations

Different approaches to a specific use case, by comparing and analysing against e.g. economic, technical, scaling-up, replication, and user-acceptance aspects.

*Characteristics:* Existing technologies and concepts (e.g. smart voltage regulation in distribution grids with high penetration of PV panels, building to grid concepts, etc.) from different environments and different demonstration projects are validated jointly in the consortium. It is desirable to have at least two ERA-Net partner countries/regions involved, and at least three demonstration projects involved.

### 4. Meta-analysis, cross-cutting issues of existing demonstration projects

Validation of different approaches in existing demonstration projects that are analysed by meta-analysis, cross-cutting and horizontal cooperation.

*Characteristics:* Scalability, replicability and validation of demonstrated solutions for a specific use-case(s), e.g. security aspects. It is desirable to have at least five demonstration projects and three ERA-Net partner countries/regions involved.

Projects will typically include R&D, technology development, demonstration and dissemination activities, performed by different partners from e.g. research, grid operators and industry, located in different countries/regions. Thus, it is crucial for applicants to ensure eligibility and available funding schemes for the different activities and partners with the respective national/regional funding agencies (see Annex A for contact information and a brief overview of requirements).

Project volumes are individual for each unique project proposal, and should be relevant to the proposed action and specific project demands. The expected (typical) volume of total costs for projects is between €1 000 000 to €10 000 000, and expected (typical) volume of total requested funding from the ERA-Net Smart Grids Plus partners is between €500 000 to €4 000 000.

## 6. Guidance for applicants

### 6.1 Call procedure

The call procedure is divided into two proposal phases followed by one evaluation phase. The ERA-Net Smart Grids Plus requires consortia to submit a *Project outline proposal* in the first proposal phase, followed by an *Advisory period* to support and give guidance for applicants and potential project proposals. The second proposal phase requires a *Full project proposal* with all necessary information and documentation, as well as national/regional requirements as applicable, in order for the project proposal to be evaluated in the *Evaluation phase*. The different steps are described in more details in the following sections (6.1.1–6.1.4). Nordic Energy Research, in cooperation with NordForsk, is facilitating the call process on behalf of the ERA-Net Smart Grids Plus partners.

Call procedure timings		
<b>Proposal phase 1</b>	ERA-Net Smart Grid Plus call open	30 January 2015
	Project outline submission deadline	8 April 2015, 14:00 CET
<b>Proposal phase 2</b>	Advisory period	23 March 2015 – 21 April 2015
	Full project proposal open	9 April 2015
	Deadline of Full project proposal	2 June 2015, 14:00 CET
<b>Evaluation phase</b>	Evaluation starts	3 June 2015
	Decision communicated to applicants	17 December 2015
<b>Project phase</b>	Project start date	1 February 2016 – 1 April 2016

Applications and any supporting documents must be in English and submitted via the Electronic Submission System, available on the ERA-Net Smart Grids Plus website ([www.eranet-smartgridsplus.eu](http://www.eranet-smartgridsplus.eu)). A text and page limit is set within the Electronic Submission System, and applicants are advised to include information only directly relevant to this call in order to preserve focus, structure and clarity in the application.

**All applications, both Project outline and Full project proposals, are managed and submitted through the central ERA-Net Smart Grids Plus Electronic Submission System available at [www.eranet-smartgridsplus.eu](http://www.eranet-smartgridsplus.eu), with the exception of specific national/regional documentation requirements (see box under section 6.1.3 and Annex A).**

### ***6.1.1 Project outline proposal***

Consortia are required to submit their Project outline proposals in due time during the Advisory period, and by 8 April 2015 at 14:00 CET at the latest. The Project outline proposal is a prerequisite for submitting a Full project proposal (*cf.* section 4. ‘Eligibility’, point 2.).

### ***6.1.2 Advisory period***

The Advisory period is meant as a support and quality assurance mechanism, during which project partners can receive feedback from their individual national/regional funding agency in terms of scope, eligibility and desirability of the project outline. This will also give the project partners time and opportunity to later revise their intended project proposals, expand or contract its scope, re-evaluate the participating partners and obtain necessary national/regional funding agency requirements information. The national/regional contact point will also provide information on the national/regional requirements for the full proposals, e.g. as to whether a/the relevant project partner(s) must also submit a full *national/regional* proposal (e.g. in the national/regional funding agencies’ submission system and language, adhering to their formal requirements and documentation needs). Each project partner is responsible for the preparation and submission of all necessary reports required by their national/regional funding agency in order to fulfil all eligibility requirements in accordance with national/regional rules. The advisory period spans the period of 23 March 2015 to 21 April 2015. The advice given by the funding agencies to the project partners is non-binding. The advice provided does not engage in any way the funding agencies with respect to acceptance or rejection of the full project proposal.

**Only consortia that have submitted a Project outline proposal are eligible to submit a Full project proposal.**

### ***6.1.3 Full project proposals***

The Full project proposal opens on 9 April 2015, which enable consortia to start work on their Full project proposals during the latter part of the Advisory period. The deadline for submission of Full project proposals is 2 June 2015 at 14:00 CET. Only consortia that have submitted a Project outline proposal on time are eligible to submit a Full project proposal.

Please note that some national/regional funding agencies may require additional documents from project partners of their respective nations/regions specific to national/regional regulations. These are **not** to be submitted to the central ERA-Net Smart Grids Plus Electronic Submission System, but directly to the relevant funding agency through their full *national/regional* project proposal submission system (if applicable). Please consult regarding on this during the Advisory period. It is the responsibility of each individual project partner to ensure that all of their necessary documents are submitted on time to the appropriate recipient.

### ***6.1.4 Evaluation phase***

The evaluation criteria are built upon the criteria within Horizon 2020:

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

For a more detailed explanation of each criterion, please see Annex B. No intrinsic preference is given to projects with partners from numerous different countries/regions. Different project types require a different amount and types of partners (industry, academia etc.), and the roles and activities of each partner within a project consortium should clearly add value to the objectives of the proposed project. Manageability of the consortium is key and must be demonstrated.

The evaluation process comprises three distinct steps, which are explained in detail below.

#### **1. National/regional evaluation**

This is the first step of the evaluation phase, where national/regional evaluations are made of the relevant project proposals. National/regional funding agency regulations govern the evaluation praxis. The national/regional funding agencies will evaluate the proposal based on the eligibility criteria (section 4. 'Eligibility') and evaluation criteria (Annex B), in conjunction with specific national/regional requirements. Ineligible project proposals will not be forwarded to the next step of the evaluation phase.

#### **2. ERA-Net Smart Grids Plus evaluation**

This is the second step of the evaluation phase where a panel of at least three independent experts per project proposal will evaluate the projects based solely on the evaluation criteria specific to the ERA-Net Smart Grids Plus (see Annex B). Each independent expert will first individually evaluate the assigned project proposals. Afterwards, the experts will meet to form a consensus evaluation. This process will be overseen by an independent observer. The consensus evaluation will result in a ranked list of eligible project proposals.

All evaluators and observers selected are required to declare their independence to the projects to avoid conflict of interest, and must adhere to the confidentiality conditions of the evaluation process.

#### **3. ERA-Net Smart Grids Plus selection and outcome**

The final step of the evaluation phase is a joint meeting of the ERA-Net Smart Grids Plus consortium to approve the ranked list from the independent experts. The outcome will be reported to the applicants and the European Commission.

### ***6.1.5 Confidentiality***

Handling of project proposals and any information relating to them will be kept confidential in accordance with the applicable national/regional regulations. Project proposals will not be used for any purpose other than the evaluation of the applications, funding decisions and monitoring of the projects as well as mandatory applicable reporting to the European Commission.

## **6.2 Consortia**

Partners from countries that are not members of ERA-Net Smart Grids Plus (see list of funding partners under section 6.3 'Funding arrangements') are encouraged to join a project consortium as additional partners. However, these additional partners must finance their activities from other sources, as each ERA-Net Smart Grids Plus funding agency will only fund partners from the own country/region.

The project partners are required to sign a consortium agreement in order to agree on Intellectual Property Rights (IPR) and other relevant issues dealing with responsibilities within the project and exploitation of results, thereby ensuring that these are not in conflict with the regulations of the relevant national/regional funding agencies. Model consortium agreements can be found at <http://www.iprhelpdesk.eu/library/useful-documents>.

### 6.3 Funding arrangements

The total funding available for ERA-Net Smart Grids Plus projects amounts to €40 237 931, made up of national/regional budgets and European Commission (EC) contribution.

<b>Funding partners</b>			
<b>Country/region</b>	<b>Funding (€) including EC cofunding</b>	<b>Organisation name</b>	<b>Acronym</b>
Austria	5 401 972	Austrian Research Promotion Agency	FFG
Croatia	405 148	Environmental Protection and Energy Efficiency Fund	FZOEU
Denmark	675 246	Energinet.dk	ENDK
Finland	1 350 493	Finnish Funding Agency for Technology and Innovation	TEKES
Flanders (Belgium)	675 246	Agency for Innovation by Science and Technology	IWT
France	4 051 479	French Environment and Energy Management Agency	ADEME
Germany	3 848 904	Forschungszentrum Jülich GmbH	PtJ
Latvia	621 227	Latvian Academy of Sciences	LAS
The Netherlands	2 700 985	Netherlands Organisation for Scientific Research	NWO
Norway	1 620 591	Research Council of Norway	RCN
Poland	1 350 493	National Centre for Research and Development	NCBR
Portugal	2 025 739	Foundation for Science and Technology	FCT
Romania	1 350 493	Executive Agency for Higher Education, Research, Development and Innovation Funding	UEFISCDI
Scotland (UK)	675 246	Scottish Enterprise	SCOTENT
Slovenia	141 801	Ministry of Infrastructure	MZI
Spain	2 025 739	Centre for Industrial Technological Development	CDTI
Sweden	5 401 972	Swedish Energy Agency	SWEA
Switzerland	3 619 321*	Swiss Federal Office of Energy	SFOE
Turkey	1 620 591	The Scientific and Technological Research Council of Turkey	TÜBİTAK
Wallonia (Belgium)	675 246	Public Service of Wallonia	SPW
<b>Total sum</b>	<b>40 237 931</b>		

\*Switzerland, being a partially associated member to the Horizon 2020 programme, will not receive cofunding from the European Commission.

## 6.4 Project duration

Projects are required to start between 1 February 2016 and 1 April 2016, and must be completed (including all reporting) by 31 March 2019. The maximum duration of a project is as such 38 months (limited to national/regional specific requirements). The minimum allowed duration of a project is 24 months.

## 6.5 Project monitoring and expected deliverables

On a national/regional level, each project partner will be responsible for the necessary reporting to their funding agency according to national/regional rules in order to obtain and maintain funding during the lifetime of their portion of the project. Apart from the national/regional project review, the transnational cooperation aspects will be monitored on the ERA-Net Smart Grids Plus level. Any substantial change in an on-going project must be reported immediately to the funding agencies involved. Project partners should be aware that changes may have implications on past, present and planned future funding.

In addition to the national/regional requirements, ERA-Net Smart Grids Plus projects are required to deliver the following:

1. Participation in and presentation at two status seminars (mid-term and final seminar). Detailed requirements for the contribution at these seminars will be specified in due course.
2. An annual, common interim report. This interim report will be available to the funding organisations involved, but will not be made public. Detailed requirements (e.g. template) for this report will be specified in due course.
3. A single publishable and public final project report, describing the activities and outcomes of the work, including an exploitation plan stating how the results of the project will be used. Detailed requirements for this report will be specified in due course.
4. An abstract of the main results of the project (for reporting purposes to the European Commission). Detailed requirements for the abstract will be specified in due course.

Applicants should be aware of the core ideas of the Knowledge Community and how the Support Project will affect the work and composition of their projects (see section 3.2). Active participation in knowledge-sharing and formative evaluation activities organised by the Support Project must be taken into account (e.g. in terms of resource allocation) when planning and managing the project work plan, set-up and budget. Additional concrete input on this will be provided during Proposal phase 2.

## Annex A – National/regional requirements

### Austria

<b>Funding agency name</b>	<b>Austrian Promotion Agency (FFG)</b>
Programme name and link	Energieforschung 2020: <a href="http://www.ffg.at/Energieforschung-das-Programm">www.ffg.at/Energieforschung-das-Programm</a> Stadt der Zukunft <a href="http://www.ffg.at/stadt-der-zukunft-das-programm">www.ffg.at/stadt-der-zukunft-das-programm</a>
Contact person	Urban Peyker, <a href="mailto:urban.peyker@ffg.at">urban.peyker@ffg.at</a> , +43 5 77 55 5049
Eligible applicants	<ul style="list-style-type: none"> <li>- Companies, SMEs.</li> <li>- Research organisations (e.g. universities and other research orgs.).</li> </ul>
Eligible costs	All project related costs (e.g. Personnel, Equipment, Consumables, Training, Travels, etc.).
Type of research funded	Applied research (Industrial research to experimental development); pre-competitive, application oriented R&D with high risk.
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€5 401 972
Further specifications	FFG will use an existing funding programme (Energieforschung 2020) to fund relevant projects. For both cooperative and individual R&D projects, the amount of funding requested for the project is between €100,000 and €2 million. The minimum value shall be seen as a guiding value. The ceiling of €2 million is fixed and must not be exceeded.

### Croatia

<b>Funding agency name</b>	<b>Environmental Protection and Energy Efficiency Fund (FZOEU)</b>
Programme name and link	Educational, research and development studies, programmes, projects and other activities - international cooperation.
Contact person	Maja Rajčić, <a href="mailto:maja.rajcic@fzoeu.hr">maja.rajcic@fzoeu.hr</a> , +385 1 5391 914
Eligible applicants	<ul style="list-style-type: none"> <li>- Companies (private and public).</li> <li>- Research organisations and universities.</li> </ul>
Eligible costs	All project related costs (e.g. Personnel, Subcontracting, Equipment, Training, Travels, Overhead, etc.).
Type of research funded	Basic and applied research, experimental development, demonstration.
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€405 148
Further specifications	Eligible applicants must comply with FZOEU regulation ( <a href="http://fzoeu.hr/hrv/index.asp?s=propisi">http://fzoeu.hr/hrv/index.asp?s=propisi</a> ). Funding is available in rate of up to 40% of eligible cost for all eligible applicants. <i>List of documentation required for national application and description of the submission procedure will be available to eligible applicants during the advisory period in FZOEU, upon individual request.</i>



## Denmark

<b>Funding agency name</b>	<b>Energinet.dk (ENDK)</b>
Programme name and link	ForskEL programme
Contact person	Jeannette Møller Jørgensen, <a href="mailto:jmj@energinet.dk">jmj@energinet.dk</a> , +45 2333 8797
Eligible applicants	<ul style="list-style-type: none"> <li>- Companies (The ForskEL programme will fund projects according to the EU state aid rules, which allows up to 25-40 % support to demonstration projects for large companies and up to 35-60 % for SMEs.)</li> <li>- Research organisations (universities and research organisations can apply for higher rates - the actual rate will be decided case by case).</li> </ul>
Eligible costs	All project related costs (e.g. personnel, equipment, consumables, training, travels, etc.).
Type of research funded	Applied research (industrial research to experimental development); pre-competitive, application oriented R&D with high risk.
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€675 246
Further specifications	The purpose of the ForskEL programme is to support research, development and demonstration projects with the purpose of developing and introducing environmentally friendly electricity generation technologies, including the development of an environmentally friendly and safe electricity system.

## Finland

<b>Funding agency name</b>	<b>Finnish Funding Agency for Technology and Innovation (TEKES)</b>
Programme name and link	TeKes does not have a specific programme in the area of smart grids.
Contact person	Jussi Mäkelä, <a href="mailto:jussi.makela@tekes.fi">jussi.makela@tekes.fi</a> , +358 50 3955 166 Jarkko Piirto, <a href="mailto:jarkko.piiro@tekes.fi">jarkko.piiro@tekes.fi</a> +358 50 3128 622
Eligible applicants	- Companies
Eligible costs	All project related costs (e.g. personnel, Equipment, Consumables, Travels, etc.) <a href="http://www.tekes.fi/en/online/funding-terms-and-conditions/">http://www.tekes.fi/en/online/funding-terms-and-conditions/</a>
Type of research funded	The funding available is for research and development on smart energy systems and system components.
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€1 350 493
Further specifications	-

## Flanders (Belgium)

<b>Funding agency name</b>	<b>Agency for Innovation by Science and Technology (IWT)</b>
Programme name and link	<ul style="list-style-type: none"> <li>- Industrial R&amp;D programme.</li> <li>- SME and SPRINT innovation projects.</li> </ul>
Contact person	Jozef Ghijsselen, <a href="mailto:jg@iwt.be">jg@iwt.be</a> , +32 2 432 42 40
Eligible applicants	<ul style="list-style-type: none"> <li>- Companies.</li> <li>- Research organisations (as subcontractors from companies).</li> </ul>
Eligible costs	Mainly personnel costs and associated operational costs.
Type of research funded	Industrial research & development.
Require separate national/regional full application	No (see "further specifications" below).
Funding available (including EC cofunding)	€675 246
Further specifications	Separate regional application: only part of regular application required.

## France

<b>Funding agency name</b>	<b>French Environment and Energy Management Agency (ADEME)</b>
Programme name and link	Program Investments for the Future (Investissements d'Avenir).
Contact person	Marion Bertholon, <a href="mailto:marion.bertholon@ademe.fr">marion.bertholon@ademe.fr</a> , +33 1 47 65 20 84
Eligible applicants	<ul style="list-style-type: none"> <li>- Companies.</li> <li>- Research organisations.</li> </ul> (See conditions in national application forms.)
Eligible costs	Are considered eligible the project related costs according to the Financial Regulations of the Program Investments of the Future (cf. national application forms).
Type of research funded	Establishment of grants will be based on the Community framework for State aid for research and development and innovation.
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€4 051 479
Further specifications	Cf. national application forms. Cf. ADEME website.

## Germany

<b>Funding agency name</b>	<b>Forschungszentrum Jülich GmbH (PtJ)</b>
Programme name and link	<ul style="list-style-type: none"> <li>- 6th Federal Programme on Energy Research; "Research for an environmental friendly, reliable und economical feasible energy supply".</li> </ul>
Contact person	Dr. Karl Waninger, <a href="mailto:k.waninger@fz-juelich.de">k.waninger@fz-juelich.de</a> , +49 246 1619 009
Eligible applicants	<ul style="list-style-type: none"> <li>- Institutions receiving institutional funding from the federal and state governments may be subject to restrictions in the level of funding.</li> <li>- Companies.</li> <li>- Research organisations.</li> </ul>

	<ul style="list-style-type: none"> <li>- Compound projects involving at least one industrial participant are the normal composition of the project participants.</li> <li>- Individual topical calls may specify further requirements depending on the nature of the topic.</li> </ul>
Eligible costs	All project related costs (e.g. personnel, Equipment, Consumables, Travels, etc.).
Type of research funded	Focus on applied research.
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€3 848 904
Further specifications	<p>Project Management Jülich (PtJ) manages the majority of the application-oriented projects dealing with research and development in the area of power grids funded by the Federal Ministry for Economic Affairs and Energy (BMWi).</p> <p>BMWi funding of the call will be provided as delineated in the “Bekanntmachung zur Forschungsförderung im 6.Energieforschungsprogramm <i>Forschung für eine umweltschonende zuverlässige und bezahlbare Energieversorgung</i>”</p> <p>German applicants may be asked to submit a formal national application <b>in addition to the full proposal</b>. For this application, it is mandatory to use the electronic application system “easy-online” (<a href="https://foerderportal.bund.de/easyonline">https://foerderportal.bund.de/easyonline</a>).</p>

## Latvia

<b>Funding agency name</b>	<b>Latvian Academy of Sciences (LAS)</b>
Programme name and link	LAS does not have a specific programme in the area of smart grids.
Contact person	Dr. Gunta Shlihta, <a href="mailto:fei@edi.lv">fei@edi.lv</a> , +371 6755 8680
Eligible applicants	<ul style="list-style-type: none"> <li>- Research organisations (that are listed in the Registry of Research Institutions operated by the Ministry of Education and Science of the Republic of Latvia)</li> <li>- Enterprises (that are registered in the Register of Enterprises of the Republic of Latvia)</li> </ul>
Eligible costs	All project related costs (e.g. personnel, materials and consumables, equipment, travel, training related to the project needs, dissemination and publication).
Type of research funded	Basic research, applied research, experimental development
Require separate national/regional full application	No
Funding available (including EC cofunding)	€621 227
Further specifications	Eligibility criteria defined in the Regulations of the Council of Ministers of the Republic of Latvia No 414 on the procedure for providing support for participation in international cooperation programs for research and technology (adopted on 19 June 2012) are applied.

## Norway

<b>Funding agency name</b>	<b>Research Council of Norway (RCN)</b>
Programme name and link	ENERGIX, <a href="http://www.forskingsradet.no">www.forskingsradet.no</a>
Contact person	Erlend Staal Eggen, <a href="mailto:ese@rcn.no">ese@rcn.no</a> , +47 91 51 45 29
Eligible applicants	Funding can be awarded to Norwegian participants in ERA-NET R&D&D-projects.
Eligible costs	All project related costs (e.g. Personnel, Equipment, Consumables, Training, Travels, etc.).
Type of research funded	The funding available is for research and development on smart energy systems and system components.
Require separate national/regional full application	No.
Funding available (including EC cofunding)	€1 620 591
Further specifications	<a href="http://www.forskingsradet.no/en/Funding_schemes/1138882212929">http://www.forskingsradet.no/en/Funding_schemes/1138882212929</a>

## Poland

<b>Funding agency name</b>	<b>National Centre for Research and Development (NCBR)</b>
Programme name and link	NCBR does not have a specific programme in the area of smart grids.
Contact person	Jolanta Drożdż, <a href="mailto:jolanta.drozdz@ncbr.gov.pl">jolanta.drozdz@ncbr.gov.pl</a> , +48 22 39 07 106
Eligible applicants	<ul style="list-style-type: none"> <li>- Enterprise or group of enterprises (small, medium, large).</li> <li>- Scientific consortia (consisting of min. one research entity and min. one enterprise).</li> </ul>
Eligible costs	<ol style="list-style-type: none"> <li>1. Personnel costs (W)</li> <li>2. Costs of instruments, equipment and intangible assets (A)</li> <li>3. Purchase of land and real estate (G)</li> <li>4. Costs of subcontracting (E)</li> <li>5. Other costs including travel costs (Op)</li> <li>6. Overheads (O) [O = (W + A + G + Op) x max. 25%]</li> </ol>
Type of research funded	<ul style="list-style-type: none"> <li>- Industrial research.</li> <li>- Experimental development.</li> </ul>
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€1 350 493
Further specifications	<p>I. National regulations applying in the call:</p> <ol style="list-style-type: none"> <li>1. The Act of 30 April 2010 on the Principles of Financing Science, published in Journal of Laws, item 1620, 2014;</li> <li>2. The Act of 30 April 2010 on the National Centre for Research and Development, published in Journal of Laws, item 1788, 2014;</li> <li>3. The Commission Regulation (EU) No 651/2014 of 17 June 2014 declaring certain categories of aid compatible with the internal market in application of Articles 107 and 108 of the Treaty.</li> </ol> <p>Types of research funded including the maximum state aid intensity for enterprises according to abovementioned Regulation:</p>

	Type of Applicant	Type of research funded	
		Industrial research	Experimental development
	Research entity	100%	100%
	Small enterprise	50+20+15 (max 80%)	25+20+15 (max 60%)
	Medium enterprise	50+10+15 (max 75%)	25+10+15 (max 50%)
	Large enterprise	50+15 (max 65%)	25+15 (max 40%)

II. National phase of the applying procedure:

After international evaluation of full proposals and the selection of projects to be funded, Polish participants will be invited to submit a National Application Form (NAF). The NAFs will be examined for the appropriateness of funding requested.

The Polish participants are obliged to use the rate of exchange of the European Central Bank dated on the day of opening of the call.

All detailed information about financial rules and national procedure is available on the NCBR's homepage: <http://www.ncbr.gov.pl/programy-miedzynarodowe/era-net-co-fund/smartgrids-plus/>

## Portugal

Funding agency name	Foundation for Science and Technology (FCT)
Programme name and link	Funding is provided by FCT, together with the Energy Efficiency and Renewable Energy Fund (FAI). FCT has no priorities in the topics fitting this ERA-NET. FAI has established the following priorities: <ul style="list-style-type: none"> <li>- Projects aimed at energy efficiency and use of technologies associated with renewable energy (e.g. generation, distribution, storage);</li> <li>- Projects with added value, i.e. with a multiplying effect, and prone to attracting investment and generating exports;</li> <li>- Projects that contribute to the implementation of national energy policy and existing national plans.</li> </ul>
Contact person	Ricardo Pereira, <a href="mailto:ricardo.pereira@fct.pt">ricardo.pereira@fct.pt</a> , +351 21 392 44 79 Marta Abrantes, <a href="mailto:marta.abrantes@fct.pt">marta.abrantes@fct.pt</a> , +351 21 391 15 96
Eligible applicants	All types of institutions are eligible, both private companies and non-profit organisations. Applicants may apply for funding by FCT (only), FAI (only) or both. FAI only supports applications by Portuguese SME companies. Non-profit organisations are not eligible unless as provided in "further specifications".
Eligible costs	Applicants are urged to observe the following regulations:  FCT provides up to 100% of eligible costs incurred by non-profit organisations and 50% of eligible costs incurred by private companies. Please refer to FCT Regulations governing access to funding for scientific research and technological development projects 2010 (with 2011 changes), in particular Article 2 ( <a href="http://www.fct.pt/apoios/projectos/regulamento.phtml">http://www.fct.pt/apoios/projectos/regulamento.phtml</a> ). FAI provides up to 50% of eligible

	costs incurred by private companies and non-profit organisations. Please refer to FAI regulations ( <a href="http://fai.pt/">http://fai.pt/</a> ) and to the specific rules governing this call.
Type of research funded	FCT does not have specific policies on type of research to be funded. FAI funds innovation in energy efficiency and renewable energy projects, within the following parameters: Technology Readiness Level (TRL) from 5 (inclusive) and onwards.
Require separate national/regional full application	Yes.  For applying for funding provided by FCT only, it is not necessary to fill any additional form.  For applying for funding entirely or partially provided by FAI, please fill the national preliminary eligibility check ( <a href="http://www.fct.pt/apoios/cooptrans/eranets/smartgridplus/docs/Eranet_Cofund_2014_smart_grids_regras_FAI.docx">http://www.fct.pt/apoios/cooptrans/eranets/smartgridplus/docs/Eranet_Cofund_2014_smart_grids_regras_FAI.docx</a> ), together with outline proposal, and the full form, together with full proposal, (full form provided via contact person at a later stage) in respect to the requested FAI funding only, and return it to the contact person, apart from the compulsory project outline.  Applicants need to submit a Declaração de Compromisso ( <a href="http://www.fct.pt/apoios/cooptrans/eranets/docs/Declaracao_Compromisso_FCT_Editavel.pdf">http://www.fct.pt/apoios/cooptrans/eranets/docs/Declaracao_Compromisso_FCT_Editavel.pdf</a> ), duly signed and stamped by the head of the Principal Contractor and by the Principal Investigator, to the contact person, by e-mail, until the submission deadline of proposals.
Funding available (including EC cofunding)	€2 025 739
Further specifications	FCT provides up to €200 000 of eligible costs complemented by €300 000 if the demonstration phase of the project takes place in Portugal. FAI provides up to €1 000 000 of eligible costs. FAI will cover 70% of eligible costs (instead of 50% if the demonstration phase takes place in Portugal. FAI only provides up to €100 000 of eligible costs to non-profit organisations and as long as a Portuguese company is also a relevant partner in the project.

## Romania

<b>Funding agency name</b>	<b>Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI)</b>
Programme name and link	Programme will become available in 2015.
Contact person	Marius Mitroi, <a href="mailto:marius.mitroi@uefiscdi.ro">marius.mitroi@uefiscdi.ro</a> , +40 21 302 38 59
Eligible applicants	- Companies. - Research organisations.
Eligible costs	Personnel, travel, equipment, materials and consumables, indirect costs (overhead).
Type of research funded	Applied research.
Require separate national/regional full application	No.
Funding available (including EC cofunding)	€1 350 493
Further specifications	-

## Scotland (UK)

<b>Funding agency name</b>	<b>Scottish Enterprise (SCOTENT)</b>
Programme name and link	Smart Grids ERA-NET Cofund
Contact person	Jonathan Leucci, <a href="mailto:jonathan.leucci@scotent.co.uk">jonathan.leucci@scotent.co.uk</a> , +44 7826 521 093
Eligible applicants	SMEs (EU definition).
Eligible costs	Project-specific costs including salaries, overheads, equipment, IT, consultancy, training, materials, trials, IP, and certificates, in whole or in part as per pre-defined criteria available on request.
Type of research funded	R&D in progressing commercial products/processes/services from TRL5-6 to 6-7 (EU definition).
Require separate national/regional full application	Yes, initial enquiries to Contact person.
Funding available (including EC cofunding)	€675 246
Further specifications	Co-funding rate of 35-50% of eligible costs and subject to Scottish Enterprise policy and procedures and EU State Aid Regulation with preference to proposals with the greatest economic impact against the requested co-financing rate.

## Slovenia

<b>Funding agency name</b>	<b>Ministry of Infrastructure (MZI)</b>
Programme name and link	National Programme of Smart Grids Development – <a href="http://www.ltfe.org/projekti/program-razvoja-pametnih-omrezij-v-sloveniji/">http://www.ltfe.org/projekti/program-razvoja-pametnih-omrezij-v-sloveniji/</a>
Contact person	Milena Černilogar Radež, <a href="mailto:milena.cernilogar-radez@gov.si">milena.cernilogar-radez@gov.si</a> , +386 1 478 7458 Erik Potočar, <a href="mailto:erik.potocar@gov.si">erik.potocar@gov.si</a> , + 386 1 478 7445
Eligible applicants	- Research organisations. - Companies.
Eligible costs	Personnel, Equipment, Consumables, Travels, Services.
Type of research funded	Applied research, innovation research and demonstration research.
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€141 801
Further specifications	-

## Spain

<b>Funding agency name</b>	<b>Centre for Industrial Technological Development (CDTI)</b>
Programme name and link	- <a href="#">International Technological Cooperation Projects.</a>
Contact person	Alberto Bermejo <a href="mailto:alberto.bermejo@cdti.es">alberto.bermejo@cdti.es</a> <a href="mailto:dptoetfsd@cdti.es">dptoetfsd@cdti.es</a> +34 915815500
Eligible applicants	Companies established and carrying out R&D activities in Spain. Universities and Research Institutions can participate as subcontractors of Spanish companies.



Eligible costs	Eligible expenditure in R&D Projects: Personnel, Instrument and material, contractual research, technical knowledge and patents consulting and equivalent services intended exclusively for the research activity. Other operating expenses derived from the research project.
Type of research funded	Industrial research and experimental development activities.
Require separate national/regional full application	Yes. Get in contact with CDTI for further advice and information. Please visit <a href="http://www.cdti.es">www.cdti.es</a> .
Funding available (including EC cofunding)	€2 025 739
Further specifications	Minimum budget €175 000.

## Sweden

<b>Funding agency name</b>	<b>Swedish Energy Agency (SWEA)</b>
Programme name and link	National Energy Research and Innovation programme.
Contact person	Dr. Gunilla Andrée, <a href="mailto:gunilla.andree@energimyndigheten.se">gunilla.andree@energimyndigheten.se</a> , +46165420615
Eligible applicants	Public and private entities e.g.: <ul style="list-style-type: none"> <li>- Universities</li> <li>- Research institutes</li> <li>- Companies</li> <li>- Municipalities</li> </ul> Decisions on funding research, development and innovation in the energy area are taken according to the ordinance SFS 2008:761 in the Swedish Code of Statutes.
Eligible costs	Personnel, travel costs, consultancy, material costs, laboratory costs, equipment costs, patent, indirect costs (only academia).
Type of research funded	Basic research, applied research, experimental development.
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€5 401 972
Further specifications	SWEA also provides practical assistance and, in some cases, support for the applications to the various energy programmes.

## Switzerland

<b>Funding agency name</b>	<b>Swiss Federal Office of Energy (SFOE)</b>
Programme name and link	Pilot-, Demonstration- and Lighthouse Program <a href="http://www.bfe.admin.ch/cleantech/">http://www.bfe.admin.ch/cleantech/</a> (German and French only).
Contact person	For technical issues: Dr. Michael Moser, <a href="mailto:michael.moser@bfe.admin.ch">michael.moser@bfe.admin.ch</a> , +41 58 465 36 23 For administrative issues: Dr. Yasmine Calisesi, <a href="mailto:yasmine.calisesi@bfe.admin.ch">yasmine.calisesi@bfe.admin.ch</a> , +41 58 462 53 21
Eligible applicants	Private and public sector entities (e.g. companies, research institutes, municipalities, or communities consisting of several of the former).
Eligible costs	Funding of Swiss participants is limited to 40% (in exceptional cases 60%) of the eligible project costs. Eligible projects costs are defined as the additional project costs that cannot be amortized over the expected lifetime of the developed installation or solution. Additional projects



	costs are the additional project costs compared to the costs of implementing an equivalent, conventional technology or solution.
Type of research funded	Pilot (TRL 4-7) and demonstration (TRL 7-9)
Require separate national/regional full application	Full application, according to the application procedure given by <a href="http://www.bfe.admin.ch/cleantech/05765/index.html?dossier_id=05798">www.bfe.admin.ch/cleantech/05765/index.html?dossier_id=05798</a>
Funding available (including EC cofunding)	€ 3 619 321 (Switzerland, being a partially associated member to the Horizon 2020 programme, will not receive cofunding from the European Commission.)
Further specifications	<p>Admission criteria include:</p> <ol style="list-style-type: none"> <li>1. Project topic contributes to increasing energy efficiency or use of renewable energy;</li> <li>2. High application and success potential;</li> <li>3. Project topic in line with the Swiss energy policy;</li> <li>4. Gathered results are publically accessible and disseminated among interested circles.</li> </ol> <p>More criteria might be added depending on the topic/adjudication mode.</p> <p>Expected deliverables of pilot- and demonstration programme projects include:</p> <ol style="list-style-type: none"> <li>1. Proof of concept of facilities, systems and proposed solutions</li> <li>2. Intermediate and final reports of individual projects providing details on technical feasibility, <ol style="list-style-type: none"> <li>1. operational achievements and project economics (particularly related to innovative energy technologies and installations) and</li> <li>2. Demonstrated knowledge transfer to target community providing details on individual measures that have been implemented</li> </ol> </li> </ol> <p>SFOE does not claim any IPR. It is explicitly allowed to protect intellectual property as far as this does not block the dissemination of the results.</p>

## The Netherlands

<b>Funding agency name</b>	<b>Netherlands Organisation for Scientific Research (NWO)</b>
Programme name and link	<ul style="list-style-type: none"> <li>- NWO supports research in Smart Grids based on its own strategic theme <i>sustainable energy</i>, and based on its support for the government's <i>Topsector Energy Policy</i>, in which Smart Grids play an important role.</li> <li>- NWO has several running research programmes, including <i>Smart Energy Systems</i> and <i>Uncertainty Reduction in Smart Energy Systems</i>, and is preparing several new programmes including <i>Energy System Integration</i>.</li> </ul>
Contact person	Dr. Mark van Assem, <a href="mailto:m.vanassem@nwo.nl">m.vanassem@nwo.nl</a> , +31 70 344 0915
Eligible applicants	<ul style="list-style-type: none"> <li>- NWO funding rules are applicable to all (co-)applicants who perform their research activities in the Netherlands.</li> <li>- NWO funding rules are defined here: <a href="http://www.nwo.nl/documents/nwo/juridisch/regeling-subsidieverlening-nwo">www.nwo.nl/documents/nwo/juridisch/regeling-subsidieverlening-nwo</a>.</li> </ul>

	<ul style="list-style-type: none"> <li>- All researchers of Dutch universities and selected Dutch institutes under the standard NWO Physical Sciences rules are eligible to apply, as described in the NWO Regulation on Granting.</li> <li>- TO2 institutes and universities of applied sciences – “HBO-instellingen” – (if paid in accordance with Article 8.1 of the law on higher education and scientific research and a member of the Vereniging Hogescholen) may act as (co-)applicant, in addition to the organisations as identified in the NWO Regulation on Granting, Article 1.1.1.</li> <li>- TO2 institutes and universities of applied sciences can also receive (part of) the grant applied for (see section 1.1.2 NWO Regulation on Granting).</li> <li>- On behalf of a university of applied sciences (HBO-instelling) the lector acts as (co-)applicant and can apply for temporary positions in salary scales 10 or 11.</li> <li>- (Co-)Applicants should have an employment contract for at least the duration of the application procedure and the duration of the research the grant is applied for. Exceptions to the required employment duration can be made for main applicants holding a “tenure track” position that covers at least half the duration required and for co-applicants if they prove by means of a letter that adequate supervision of all researchers for whom funding is applied for, can be guaranteed for the full duration of the grant. An exception can also be made if the applicant proves by means of a letter that, in the event that the application is successful, the employment contract will be extended for the duration of the project. This guarantee should be signed by the dean, the operations manager, the head of the department, or the head of the institute.</li> <li>- Companies and industrial partners from the Netherlands are encouraged to participate in the consortium and contribute to the project, in the form of in-kind or cash contributions. However, they cannot receive funding in this call.</li> <li>- For all applications involving Dutch applicants, the involvement of a Dutch university or institute as (co-) applicant (as identified in the NWO Regulation on Granting, Article 1.1.1.) is required. This means that TO2 institutes and universities of applied science cannot apply on their own.</li> </ul>
Eligible costs	<p>The grant can be used for:</p> <ul style="list-style-type: none"> <li>- temporary personnel costs;</li> <li>- equipment related to the research proposal;</li> <li>- travel, accommodation and meeting costs.</li> </ul> <p>In accordance with the NWO-VSNU agreement, the non-staff costs exclude infrastructure costs (accommodation, office automation, books, i.e. costs of facilities which can be regarded as part of the normal infrastructure for the discipline concerned) and overheads.</p> <p>For all eligible applicants the VSNU standard tariffs for personnel costs apply (see <a href="http://www.nwo.nl/financiering/hoewerkt-dat/Salaristabellen">http://www.nwo.nl/financiering/hoewerkt-dat/Salaristabellen</a>).</p>

	<p>The maximum total amount applied for by Dutch applicants is M€ 1 per proposal. Please note: if the Dutch subproject involves more than one party, the total of M€1 per proposal applies to the total joint budget applied for by all Dutch parties involved in the subproject. I.e., the joint budget applied for by Dutch applicants cannot exceed the M€ 1 per proposal.</p> <p>At most 10% or k€50 of the budget (whichever limit comes first) can be spent on eligible costs other than temporary personnel costs (equipment related to the proposal, travel, accommodation and meeting costs). A higher amount of this budget category is only possible if permission is first granted by NWO. All budget items need to be properly motivated.</p> <p>A project can request one or more of the following positions:</p> <ul style="list-style-type: none"> <li>- PhD student (4 years, but funded for maximum 38 months, see below)</li> <li>- temporary postdoc 2 years</li> <li>- temporary postdoc 3 years</li> <li>- similar function (in terms of tasks and grading) at an institute or HBO-instelling, with a maximum funding of 38 months.</li> </ul> <p>Additionally, a project may request one non-scientific personnel position ('NWP') for the duration of the project (maximum 38 months). This can be a student-assistant or programmer hired for activities directly related to the research which cannot fall under the category 'overhead' (such as secretarial duties). Duration, size of contract in terms of FTE, and level (MBO/HBO) of the position must be motivated in the proposal. A maximum duration of 38 months also applies here.</p> <p>Because projects in this ERA-Net run no longer than 38 months, NWO will only fund at maximum 38 months of a PhD student or other position. The applicants need to indicate and guarantee a separate funding source for the last part of the position. They also need to indicate in their planning how the 4 year term of a PhD student/other position is incorporated in the planning of the project. Any project results that are to be produced by the 4-year position need to be planned and delivered in the project period, including all relevant reports to the ERA-Net. The project is administrated at NWO for the normal term of the position (4 years). As such the applicant needs to provide NWO with the standard NWO project reports after the 4-year term is completed.</p> <p>Indemnification shall be in accordance with the standard costs in the NWO-VSNU agreement on the funding of scientific research. For details and tariffs: <a href="http://www.nwo.nl/financiering/hoewerkt-dat/Salaristabellen">www.nwo.nl/financiering/hoewerkt-dat/Salaristabellen</a>. Tariffs are indexed annually.</p> <p>The Dutch participants of funded projects need to provide NOW with the applications as they were submitted to the ERA-Net call. Additionally, a budget of the Dutch part of the projects needs to be submitted.</p>
Type of research funded	Fundamental and applied research – TRL 0-5 (for activities of Dutch partners).

	<p>Projects, or the part of the project that the Dutch partner is performing, can only be conducted on the topics mentioned below. Whether or not an application conforms to this requirement is decided by the national assessment committee.</p> <ul style="list-style-type: none"> <li>- Demand Side Management.</li> <li>- ICT interfaces.</li> <li>- (autonomous) Grid management.</li> <li>- Communication and Security.</li> <li>- Smart Market.</li> <li>- Smart Grids and E-mobility.</li> <li>- Transmission and Distribution Grids.</li> <li>- Materials and Technologies.</li> <li>- User behaviour and Involvement.</li> <li>- Interactions and responsibilities of DSOs.</li> <li>- Open Networks and Customer Driven Products.</li> <li>- Leveraging Information Flows.</li> <li>- Forecasting Techniques.</li> </ul>
Require separate national/regional full application	No.
Funding available (including EC cofunding)	€2 700 985
Further specifications	-

## Turkey

<b>Funding agency name</b>	<b>The Scientific and Technological Research Council of Turkey (TÜBİTAK)</b>
Programme name and link	<p>- 1509-International Industrial R&amp;D Projects Grant Programme, <a href="http://www.tubitak.gov.tr/tr/destekler/sanayi/uluslararasi-ortakli-destek-programlari/icerik-1509-tubitak-uluslararasi-sanayi-ar-ge-projeleri-destekleme-programi">http://www.tubitak.gov.tr/tr/destekler/sanayi/uluslararasi-ortakli-destek-programlari/icerik-1509-tubitak-uluslararasi-sanayi-ar-ge-projeleri-destekleme-programi</a></p> <p>- 1001-The Support Program for Scientific and Technological Research Projects, <a href="http://www.tubitak.gov.tr/tr/destekler/akademik/ulusal-destek-programlari/icerik-1001-bilimsel-ve-teknolojik-arastirma-projelerini-destekleme-pr">http://www.tubitak.gov.tr/tr/destekler/akademik/ulusal-destek-programlari/icerik-1001-bilimsel-ve-teknolojik-arastirma-projelerini-destekleme-pr</a></p>
Contact person	Önder Zor, <a href="mailto:onder.zor@tubitak.gov.tr">onder.zor@tubitak.gov.tr</a> , +90 312 468 5300 / ext.4553
Eligible applicants	<p>- 1509 Programme: SMEs and large companies settled in Turkey.</p> <p>- 1001 Programme: Applicants from universities, R&amp;D institutes, public and private corporations.</p>
Eligible costs	<p>- 1509 Programme: Personnel, travel, equipment/tool/software, R&amp;D services from domestic RTOs, consultancy/other services, material costs.</p> <p>- 1001 Programme: Personnel costs (scholarships), travel &amp; subsistence, equipment and materials.</p>
Type of research funded	Basic research, applied research, experimental development.
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€1 620 591

Further specifications	<p>- 1509 Programme:</p> <ul style="list-style-type: none"> <li>• Universities and research institutes are not eligible, but can benefit from the programme as subcontractors.</li> <li>• Application to 1509 programme should be made until the deadline for ERA-Net Smart Grids Plus full proposal submission. Any change in this national submission deadline will be announced by TÜBİTAK to the Turkish applicants.</li> <li>• The national project cannot start before the ERA-Net Smart Grids Plus joint project.</li> </ul> <p>- 1001 Programme:</p> <ul style="list-style-type: none"> <li>• The total maximum funding per project is 360.000 TL (as of 2014) excluding payments to the principal investigator (PI), Co-PI's and overhead costs.</li> </ul>
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## Wallonia (Belgium)

Funding agency name	Public Service of Wallonia (SPW)
Programme name and link	<ul style="list-style-type: none"> <li>- DGO6 - DIRECTORATE-GENERAL OPERATIONAL FOR ECONOMY, EMPLOYMENT AND RESEARCH - Department of Research Programmes - Directorate for Federal and International Programmes – ERA-Nets Scheme: <a href="http://recherche-technologie.wallonie.be/fr/menu/acteurs-institutionnels/service-public-de-wallonie-services-en-charge-de-la-recherche-et-des-technologies/departement-des-programmes-de-recherche/direction-des-programmes-federaux-et-internationaux/era-nets/index.html">http://recherche-technologie.wallonie.be/fr/menu/acteurs-institutionnels/service-public-de-wallonie-services-en-charge-de-la-recherche-et-des-technologies/departement-des-programmes-de-recherche/direction-des-programmes-federaux-et-internationaux/era-nets/index.html</a></li> <li>- DGO4 - DIRECTORATE-GENERAL OPERATIONAL FOR LAND USE, HOUSING, HERITAGE AND ENERGY - Department of Energy and Sustainable buildings - Directorate for the Promotion of Renewable Energy - Mobilizing Programmes of support to research: <a href="http://energie.wallonie.be/fr/les-programmes-mobilisateurs.html?IDC=7826">http://energie.wallonie.be/fr/les-programmes-mobilisateurs.html?IDC=7826</a></li> </ul>
Contact person	Julie Marlier, <a href="mailto:julie.marlier@spw.wallonie.be">julie.marlier@spw.wallonie.be</a> , +32 81 33 45 49 (eligibility and administrative issues), Dr. Gilles Tihon, <a href="mailto:gilles.tihon@spw.wallonie.be">gilles.tihon@spw.wallonie.be</a> , +32 814 863 53 (scope).
Eligible applicants	SPW potentially supports all private and public applicants, namely: <ul style="list-style-type: none"> <li>• Large Enterprises (40% of total costs)</li> <li>• Small and Medium Enterprises (from 60-80% of total costs)</li> <li>• Research Centres (75% of total costs)</li> <li>• Universities (100% of total costs)</li> </ul> Minimum 40% of the Walloon project's budget must be dedicated to the private Walloon company(ies)involved in the research project.
Eligible costs	Staff, consumables, tooling, prototype, demonstrator, maintenance, subcontracting, travel, equipment. For further information, please see the DGO6's manual of eligible expenditures to download from <a href="http://recherche-technologie.wallonie.be/go/era-nets/smartergridplus.html">http://recherche-technologie.wallonie.be/go/era-nets/smartergridplus.html</a> .
Type of research funded	Industrial research.
Require separate national/regional full application	Yes.
Funding available (including EC cofunding)	€675 246

Further specifications	<p>Eligibility criteria :</p> <ul style="list-style-type: none"> <li>- The project cannot receive double funding;</li> <li>- The budget for the Walloon partners should follow the SPW-DGO6 cost model - Please contact Julie Marlier to receive the model;</li> <li>- The funding rate will be the maximum allowed by the decree of the 3rd of July 2008;</li> <li>- The beneficiary must be able to justify quickly a stable financial situation. A financial viability check has to be carried out before being recommended for full proposal;</li> <li>- The beneficiary must have operational offices in the Walloon Region;</li> <li>- The project must add benefit to the regional economy;</li> <li>- All information needed for evaluation should be made available;</li> <li>- A Walloon complementary funding request's form must be submitted to the SPW-DGO6 for the full proposal stage. This form has to be submitted within five working days after the call deadline – to download from <a href="http://recherche-technologie.wallonie.be/go/era-nets/smartgridsplus.html">http://recherche-technologie.wallonie.be/go/era-nets/smartgridsplus.html</a>.</li> <li>- The maximum duration of a project cannot exceed three years.</li> </ul>
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## Annex B – Evaluation criteria

<b>Evaluation criteria</b>	
Scores 0 – 5 (0 = Fail/Not applicable; 1 = Poor; 2 = Fair; 3 = Good; 4 = Very good; 5 = Excellent)	
<b>(a) Excellence</b>	
<b>1. Relevance to the call</b> - Piloting, validation and demonstration, fit to call (aim). - Applicability to the three main challenges (see section 3). - Sustainability/environmental contributions and impacts.	Score 0-5
<b>2. Degree of innovation and innovative content</b> - Project represents something genuinely innovative and/or is a significant improvement on current knowledge and expertise. - Feasibility of innovation and innovative content as a whole.	Score 0-5
<b>3. State-of-the-art and transnational value</b> - Clear description of state-of-the-art within the project's field. - Clear positioning of the project in relation to the described state-of-the-art. - Added value of the project being transnational (as opposed to being only national). - Benefits and relevance of the project internationally.	Score 0-5
<b>4. Applicability to the Three Layer Research Model</b> - More than one level covered. - Concrete methodological approach to the Three Layer Model (if only a single layer project, the reasons for this must be clearly explained and justified).	Score 0-5
<b>(b) Impact</b>	
<b>1. Expected impacts</b> - Expected impacts are feasible and desirable. - Short-term and long-term impacts contribution to the call's aim. - Implementation contributes to the expected impacts.	Score 0-5
<b>2. Scaling-up, reproducibility, replicability and interoperability potential</b> - Project is furthering past or ongoing demonstration projects. - High scaling-up potential. - High reproducibility/replicability potential. - High interoperability potential.	Score 0-5
<b>3. Link and contribution to past and ongoing relevant European initiatives in smart grids and the European Knowledge Base</b> - Project builds on relevant European initiatives, knowledge and systematics (e.g. findings of the Working Groups of the Smart Grids Taskforce, SGAM Model, etc.). - Project is furthering past or ongoing demonstration projects. - High contribution to fulfilling European smart grids initiatives' objectives.	Score 0-5
<b>4. Appropriateness of measures for dissemination, exploitation and IPR</b> - Target audience identified, suggested communication activities appropriate. - Means of dissemination and exploitation of results. - IPRs described and handled appropriately (licenses, patents etc.).	Score 0-5
<b>(c) Quality and efficiency of the implementation</b>	
<b>1. Quality and relevant experience of project team</b> - Experience, specific expert experience (CVs). - Relevant interdisciplinary experience (complimentary expertise). - Beneficial team composition (competence diversity).	Score 0-5

<b>2. Appropriateness of the management structure and resource allocation</b> - Management structure (roles) clearly defined and appropriate. - Manageability of consortium (amount of partners, key players etc.). - Resources are allocated suitably depending on specific expert competencies.	Score 0-5
<b>3. Work plan/implementation feasibility and manageability</b> - Detailed, clear and logical work/implementation plan. - Feasibility of Deliverables and Milestones. - Project delivers results efficiently in relation to the project budget.	Score 0-5
<b>4. Risk identification, analysis and preventive measures</b> - Risks appropriately identified. - Risk analysis is clear, coherent and logical. - Preventive/remedial measures are proposed, and measures seem feasible and valid.	Score 0-5
<b>Total maximum score sum</b>	<b>60</b>



## **Annex C – Technology Readiness Levels**

The following definitions apply to TRLs:

TRL 1 – basic principles observed.

TRL 2 – technology concept formulated.

TRL 3 – experimental proof of concept.

TRL 4 – technology validated in lab.

TRL 5 – technology validated in relevant environment.

TRL 6 – technology demonstrated in relevant environment.

TRL 7 – system prototype demonstration in operational environment.

TRL 8 – system complete and qualified.

TRL 9 – actual system proven in operational environment.