



European Research Area Network - Smart Grids Plus

Call for proposals

Opening of call 18 April 2016

ERA-Net Smart Grids Plus Launch Event 21 – 22 April 2016,

Stockholm, Sweden

Advisory period 18 April 2016 – 3 June 2016

Project proposal deadline 15 June 2016, 14:00 CEST



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ERA-Net Smart Grids Plus is supported by funding from the European Union's Horizon 2020 research and innovation programme.





1 TIMELINE OF THE 2016 CALL

ERA-Net Smart Grids Plus is an initiative of 21 European countries and regions. The overall goal of ERA-Net Smart Grids Plus is to support knowledge sharing between European smart grids initiatives by promoting and financing joint projects. This document is an invitation to respond to the 2016 joint transnational call for Smart Grids projects in Europe. The total available budget is approximately 24 Mio €.

Call launch	18 April 2016
ERA-Net Smart Grids Plus 2 nd Call Launch Event Compulsory advisory period	21–22 April 2016, Stockholm, Sweden 18 April 2016 – 3 June 2016
Proposal deadline	15 June 2016, 14:00 CEST
Preliminary national/regional eligibility check	30 June 2016
Change of ineligible partner deadline	25 August 2016, 14:00 CEST
Second preliminary national/re- gional eligibility check	7 September 2016
Deadline funding decision feedback	19 December 2016
Expected project start	1 February 2017-1 April 2017

Project proposals must be submitted electronically. More information, about the call and the online Electronic Submission System, can be found at the ERA-Net Smart Grids Plus website: www.eranet-smartgridsplus.eu.

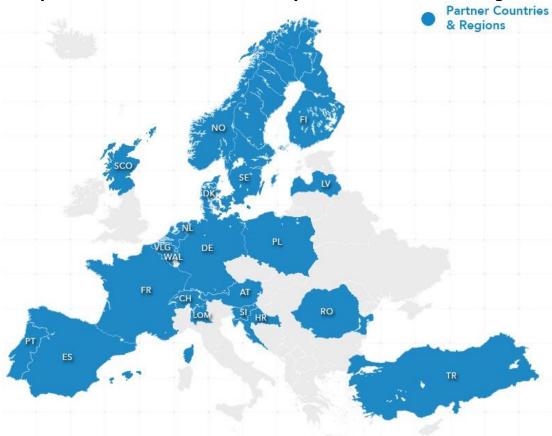
2 BACKGROUND: ERA-NET SMART GRIDS PLUS

The vision for smart grids in Europe is to create an electric power system that integrates renewable energies and enables flexible consumer and production technologies. This can help to shape an electricity grid with a high security of supply, coupled with low greenhouse gas emissions, at an affordable price. Our aim is to support the development of the technologies, market designs and customer adoptions that are necessary to reach this goal.

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.



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



3 SCOPE AND AMBITION OF SECOND JOINT CALL

ERA-Net Smart Grids Plus will promote piloting and demonstration in the field of smart grids. Focus will be given to validation, scale-up and replication. The three research layers of *Stakeholder/Adoption*, *Marketplace* and *Technology* (see section 3.1) should be an integrated part of this focus. The aim is to push solutions to meet 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.:
 - o 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 initiative¹.
- 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

To move towards a common energy system in Europe, is necessary to link the energy technology research and development to the organisation of the energy market and to learn more about how to overcome barriers built into communities and societies. 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.
 Please note; it is important that the stakeholders are clearly identified, and there should be a clear strategy for how to engage them.
- 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, differences, etc.). Such cooperation will comprise findings sharing on, for instance, typical observed behaviours.

¹ For all background material, see http://www.eranet-smartgridsplus.eu/downloads ERA-Net SG+ | 2016 call text



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. Please note; the methodologies for researching market related issues should be clearly identified regarding the type of data that needs to be collected and how, and how to analyse the data.
- 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 the 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).
 - The new technological concepts should preferably be accompanied by studies of technology adoption and/or business models to reveal the potential of and possible barriers for the innovative technologies in question. In this way, the goals of the adoption and marketplace layers can be related to the technological layer in an interdisciplinary and integrated approach.
- 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.

Please note that the methodologies and approaches to study the layers included in the project should be clearly defined. The work plan and deliverables should reflect all included layers and the potential interconnections between them. For projects covering more than one layer, interdisciplinary teams including partners and/or experts with different backgrounds (e.g. economy, market design, management, social sciences, technology) may be of great value for the project. It is also important that the risk assessments for the projects fully consider all layers involved in the project, not only potential technological aspects.



The ERA-Net Smart Grids Plus initiative will prefer projects that cover more than one of these three research layers. Projects covering stake-holder/adoption and/or marketplace layers as well, will be given priority over single layer projects. Projects should therefore clearly state goals for the stakeholder/adoption and marketplace layers in relation to technological issues.

3.2 Knowledge Community

The ERA-Net Smart Grids Plus Coordination implements advanced and innovative follow-up, monitoring and transfer activities to create an ERA-Net Smart Grids Plus Knowledge Community. It is organised by the ERA-Net SG+ Support Team.

The goal of the Knowledge Community is to enable knowledge exchange between the projects and with international experts in order to prevent duplication of efforts. Further, its aim is to present state-of-the-art knowledge and discussions in the field of Smart Grids in order to establish ERA-Net SG+ as a hub and voice for all information related to national/regional Smart Grids RDD. To this end, the Knowledge Community will link experts of ERA-Net Smart Grids Plus projects and actors of other smart grids projects. It will also provide connections to policy makers, stakeholder organisations, SMEs and academia from outside the ERA-Net SG+ community.

The Knowledge Community refers to the European knowledge base (e.g. findings, resources and expertise from the European SET-Plan Initiative, The European Smart Grids Taskforce, The Grid+ Storage Project, the Future Internet PPP, the SEN/CENELEC/ETSI working group or the Council of European Energy Regulators (CEER) etc.). It will offer knowledge that may aid policy makers, program managers/owners, EU level representatives and stakeholders in making strategic decisions.

The Support Team will further implement an interactive, formative evaluation process where the projects results are assessed against state-of-the-art knowledge and through which the projects get the opportunity to monitor their progress and results. The evaluation will emphasise the importance of interoperability, scalability and replicability of the results. It may also aid the deployment of the solutions on a national and European level.

The Knowledge Community is an integral part of the ERA-Net Smart Grids Plus concept. 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 (see Standard Work Package, Annex D). 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 Team and each funded project, as applicable. The project proposal (see section 6.1) should include the mandatory work package that



implements these activities (see Annex D). In the design of their own dissemination and exploitation strategies, projects should take into account potential synergies with and contributions to the ERA-Net Smart Grids Plus Knowledge Community.

4. ELIGIBILITY

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

 Project must be transnational by nature, involving at least two independent entities and from at least two different countries of the ERA-Net Smart Grids Plus partners².

It is mandatory that each project partners contact their respective 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. It is essential that applicants familiarise themselves with their respective funding agency's rules. They should contact their national/regional contact point during the advisory periods 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. It is important that the projects incorporate the three layers described in Ch. 3.1 in the four typical project types outlined below. Please 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. Meta-analysis, cross-cutting issues of existing demonstration projects

Projects may perform validation of different approaches to existing demonstration projects that are analysed by meta-analysis, interdisciplinary approaches and through collaboration between partners from corresponding market segments (horizontal cooperation).

Characteristics: Scalability, replicability and validation of demonstrated solutions for a case scenario(s) where a specific technology or concept is investigated, e.g. issues related to security aspects. It is desirable to have at least

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² See list of funding partners under section 6.3 'Funding arrangements'. ERA-Net SG+ | 2016 call text



five demonstration projects and three ERA-Net partner countries/regions involved.

2. Comparative validation of technologies and concepts of existing demonstrations

Projects may involve a case study where different approaches to the utilisation of a specific technology or concept is investigated. This can be performed by comparing and analysing the technology or concept with respect to 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 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.

3. New demonstration project

Projects may present a 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 for the first time by using the elaborated and experienced setting of an existing demonstration project in a new industrial environment. Alternatively, 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. Demonstrating market business models, technologies' acceptance and adoption induction models are as needed as demonstrating technological solutions. All models shall preferably be developed in close interconnection.

4. Further development of technologies and concepts

Projects may build on the outcomes, developments and validations of existing demonstration projects, or further development of smart grids technologies from the current state of play.

Characteristics: Improvement, reengineering, scaling-up etc. Outcomes are ideally demonstrated or validated in the elaborated and experienced setting of an existing demonstration project in a new industrial environment. It is desirable to have at least one existing demonstration project and two or more ERA-Net partner countries/regions involved. It would be preferred if the demonstration project would also include consumer adoption and/or business model development.

Projects may 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 has four steps; the proposal phase, the proposal adjustment and clearing phase, the evaluation phase and the selection phase. During the proposal phase, there will be a compulsory advisory period where the applicants are obliged to seek support and guidance from their respective agencies regarding their project proposals. This is to ensure suitability of the projects with respect to national/regional requirements.

During the proposal adjustment and clearing phase, projects that are found to be non-eligible due to partners within the project may change this partner in order to become eligible for funding. A partner change may not introduce changes in the scope of the project or introduce major budgetary changes.

Projects that are found eligible during the first or second preliminary eligibility check, will be forwarded to the evaluation phase. In this phase, the project proposals will be submitted to a trans-national evaluation and a full national/regional evaluation of eligibility. The project proposal should include all necessary information and documentation, as well as any information needed to fulfil national/regional requirements. If these requirements are not met, the project proposal will not pass the evaluation phase. The different steps are described in more detail 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			
Proposal phase	ERA-Net Smart Grid Plus call	18 April 2016	
	open		
	Compulsory advisory period	18 April 2016 – 3 June 2016	
Proposal ad-	Deadline project proposal	15 June 2016, 14:00 CEST	
justment and clearing phase	Preliminary national/regional eligibility check	30 June 2016	
	Deadline change of project partner	25 August 2016, 14:00 CEST	
Evaluation phase	Second preliminary national/regional eligibility check	7 September 2016	
	Transnational expert evaluation and national/regional eligibility check	October – November	
Selection	Decision communicated to ap-	19 December 2016	
phase	plicants		
Project phase	Project start date	1 February 2017 – 1 April 2017	

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). 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 project applications are managed and submitted through the central ERA-Net Smart Grids Plus Electronic Submission System available at 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 proposals

The project proposal phase opens on 18 April 2016. The deadline for submission of the project proposals is 15 June 2016 at 14:00 CEST.

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



6.1.2 Advisory period

There will be an advisory period during the proposal submission period (18th April – 3th June). The applicants may receive feedback from their individual national/regional funding agency in terms of scope, eligibility and desirability of the project proposal. This will give the project partners the opportunity to revise their proposal, expand or contract its scope, re-evaluate the participating partners and obtain necessary national/regional funding agency requirements information. Thereby the quality and success rate of the project proposals may be increased.

The national/regional contact point will also provide information on the national/regional requirements for the project proposals. Such a requirement may be that a relevant project partner(s) must also submit a full *national/regional* proposal (i.e. in the national/regional funding agencies' submission system and language, adhering to national/regional regulations). Each project partner is responsible for the preparation and submission of all required reports according to their respective national/regional funding agency's eligibility rules. The advice given by the funding agencies to the project partners is non-binding. The advice provided does not engage the funding agencies with respect to acceptance or rejection of the full project proposal.

Only consortia that have contacted their respective national/regional funding agencies during the advisory period are eligible to submit a full project proposal.

6.1.3 Evaluation process

The evaluation criteria are built upon three main criteria:

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

For a more detailed explanation of each criterion, please see Annex B. No preference is given to projects with partners from numerous different countries/regions. Different project types require different amounts and types of partners (industry, academia etc.). 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 four steps, which are explained in detail below.

1. Preliminary national/regional eligibility checks

This is the first step of the evaluation process. The agencies will inform their respective applicants of the result of the discussions. The project applicants will be given the opportunity to exchange ineligible project partners by the 25th of August.

A new preliminary national/regional eligibility check of the performed partner changes will be performed on the 7th of September. Projects that are found eligible after this second check will be forwarded to the evaluation phase.

2. Transnational evaluation of the project proposals

In the evaluation phase a panel of at least three independent experts will evaluate each project proposal, 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 project proposals.

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

3. Final national/regional evaluation

The projects will be considered on a national/regional basis, governed by national/regional funding agency regulations. The national/regional funding agencies will evaluate the proposal based on the eligibility criteria (section 4. 'Eligibility') and, if necessary, the evaluation criteria (Annex B), in conjunction with specific national/regional requirements. Ineligible project proposals will not be considered for funding and will not go through to the selection phase.

4. ERA-Net Smart Grids Plus selection and outcome

The final step of the evaluation process is a joint meeting of the ERA-Net Smart Grids Plus consortium to select projects for funding according to the ranked list from the independent experts. The ranked list will not be available for the funding agencies prior to the fulfilment of the national eligibility checks. The outcome will be reported to the applicants by the 19th of December 2016.

6.1.4 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.

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 their 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, they ensure 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.ipr-helpdesk.eu/library/useful-documents.



6.3 Funding arrangements

The total funding available for ERA-Net Smart Grids Plus projects amounts to approximately €24 Mio, made up of national/regional budgets.

Funding partners			
Country/ region	Funding (€)	Organisation name	Acronym
Austria	3 400 000	Austrian Research Promotion Agency	FFG
Croatia	300 000	Environmental Protection and Energy Efficiency Fund	FZOEU
Denmark	500 000	Energinet.dk	ENDK
France	5 000 000	French Environment and Energy Management Agency	ADEME
Germany	3 500 000	Forschungszentrum Jülich GmbH	PtJ
The Nether- lands	1 800 000	Netherlands Organisation for Scientific Research	NWO
Norway	1 200 000	Research Council of Norway	RCN
Romania	1 000 000	Executive Agency for Higher Education, Research, Development and Innovation Funding	UEFISCDI
Scotland (UK)	To be decided	Scottish Enterprise	SCOTENT
Spain	500 000	Centre for Industrial Technological Development	CDTI
Sweden	3 250 000	Swedish Energy Agency	SWEA
Switzerland	1 000 000	Swiss Federal Office of Energy	SFOE
Turkey	2 500 000	The Scientific and Technological Research Council of Turkey	TÜBİTAK
Total sum	23 950 000*		

^{*}The total budget and the budget for Scotland will be subject to changes and will be updated shortly.



6.4 Project duration

Projects are required to start between 1 February 2017 and 1 April 2017, and must be completed (including all reporting) by 31 March 2020. 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

Each project partner will be responsible for the necessary reporting to their funding agency according to national/regional rules. Yearly reports are required 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 meetings to report on the status of and results from the project. 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, which describes the activities and outcomes of the work. This should include an exploitation plan that states how the results of the project will be used. Detailed requirements for this report will be specified in due course. An abstract of the main results of the project will also be part of this report. 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 Team will affect the work and composition of the projects (see section 3.2). Active participation in knowledge-sharing and formative evaluation activities organised by the Support Team must be taken into account (e.g. in terms of resource allocation) when planning and managing the project work plan, set-up and budget.



1. Annex A – National/regional requirements

Austria

Funding agency name	Austrian Research Promotion Agency (FFG)
Programme name and	ERA-NET Smart Grids Plus
link	https://www.ffg.at/eranet/smartgridsplus
Contact person	Urban Peyker, urban.peyker@ffg.at, +43 5 77 55 5049
Eligible applicants	 Companies, SMEs. Research organisations (e.g. universities and other research orgs.).
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	€3 400 000
Further specifications	FFG will use funds from the Austrian Ministry of Transport, Innovation and Technology and from the Austrian Climate and Energy Fund 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

Funding agency name	Environmental Protection and Energy Efficiency Fund (FZOEU)
Programme name and link	International cooperation programme.
Contact person	Maja Rajčić, maja.rajcic@fzoeu.hr, +385 1 5391 914
Eligible applicants	- Companies (private and public).
	- Research organisations and universities.
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	€300 000
Further specifications	Eligible applicants must comply with FZOEU regulation (http://www.fzoeu.hr/hr/propisi/opci akti fonda/).

Denmark

Funding agency name	Energinet.dk (ENDK)
Programme name and link	ForskEL programme
Contact person	Rune Schmidt, rsc@energinet.dk, +45 76 22 48 03
Eligible applicants	 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.) Research organisations (universities and research organisations can apply for higher rates the actual rate will be decided case by case).
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	€500 000
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.



France

Funding agency name	French Environment and Energy Management Agency (ADEME)
Programme name and link	Program Investments for the Future (Investissements d'Avenir).
Contact person	Marion Bertholon, marion.bertholon@ademe.fr, +33 1 47 65 20 84
Eligible applicants	Companies.Research organisations.
	See conditions in national application forms.
Eligible costs	Project related costs are considered eligible 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	€5 000 000
Further specifications	Cf. national application forms. Cf. ADEME website.

Germany

Funding agency name	Forschungszentrum Jülich GmbH (PtJ)
Programme name and link	 6th Federal Programme on Energy Research; "Research for an environmental friendly, reliable und economical feasible energy supply".
Contact person	Dr. Karl Waninger, <u>k.waninger@fz-juelich.de</u> , +49 246 1619 009
Eligible applicants	 Institutions receiving institutional funding from the federal and state governments may be subject to restrictions in the level of funding. Companies. Research organisations. Compound projects involving at least one industrial participant are the normal composition of the project participants. Individual topical calls may specify further requirements depending on the nature of the topic.
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	€3 500 000
Further specifications	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).
	BMWi funding of the call will be provided as delineated in the
	"Bekanntmachung zur Forschungsförderung im 6.Energieforschungsprogramm Forschung für eine um- weltschonende zuverlässige und bezahlbare Energie- versorgung"
	German applicants may be asked to submit a formal national application in addition to the full proposal . For this application, it is mandatory to use the electronic application system "easy-online" (https://foerderportal.bund.de/easyonline).

Norway

Funding agency name	Research Council of Norway (RCN)
Programme name and	ENERGIX
link	http://www.forskningsradet.no/prognett-energix/Forside/1253980140037
Contact person	Erland Staal Eggen, ese@rcn.no, +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, travels, etc.). The maximum support intensity is described in http://www.forskningsradet.no/no/Statsstotteregelverket/1254004171884 .
Type of research funded	The funding available is for research and development contributing to the goals of the ENERGIX program in the topical area of smart energy systems. See http://www.forskningsradet.no/prognett-energix/Om-programmet/1253980140060 .



Require separate national/ regional full application	No.
Funding available	€1 200 000
Further specifications	

Romania

Funding agency name	Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI)
Programme name and link	Programme will become available in 2015.
Contact person	Marius Mitroi, marius.mitroi@uefiscdi.ro, +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	1 000 000
Further specifications	-

Scotland (UK)

Funding agency name	Scottish Enterprise (SCOTENT)
Programme name and link	Smart Grids ERA-NET Cofund
Contact person	Jonathan Leucci, <u>jonathan.leucci@scotent.co.uk</u> , +44 141 242 8427
Eligible applicants	SMEs (EU definition).
	Universities (in a consortium led by a company, having at least two companies, and with at least one of these being Scottish-based and undertaking R&D in Scotland).
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	Industrial research/Experimental development (EU definitions) aimed at the creation of new products, processes, or services in achieving business growth.
Require separate national/ regional full application	Yes, initial enquiries to Contact person.
Funding available	To be decided.
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.

Spain

Funding agency name	Centro para el Desarrollo Tecnológico Industrial (CDTI)
Programme name and link	ERA-NET COFUND SMART GRIDS PLUS
Contact person	Gabriel Barthelemy gabriel.barthelemy@cdti.es; dptoetfsd@cdti.es / +34 91 581 0707
Eligible applicants	For-profit enterprises (large or SME), established and carrying out R&D activities in Spain. Other non-profit entities such as universities, public research institutions, technological centres, and other private non-profit institutions could participate under subcontracting by Spanish companies.
Eligible costs	Only technology-based R&D activities can be funded. For RTD activities, the following costs are eligible: personnel; instruments and equipment (to the extent and for the period used for the project); materials; contractual research, technical knowledge,patents, consulting and equivalent services and overheads (intended exclusively for the RTD activities). Management, dissemination related activities, as well as travel expenses, are excluded for funding.
Type of research funded	Industrial research and/or experimental development activities (in accordance with the definitions of EC Regulation nº651/2014), representing outstanding scientific-technical quality and high innovative potential. The Spanish part of the proposed work plan must be developed in Spain.



Require separate national/ regional full application	Yes, please check the information available on CDTI website: www.cdti.es
Funding available	CDTI funding will be based on a financing package entailing soft loans (75% of the eligible budget) with a non-repayable part, up to 30 % of the loan. Thus, CDTI budget amounts to € 2,000,000 (including up to € 500,000 as non-repayable part).
Further specifications	Minimum funding budget: € 175,000. Specific financial conditions for ensuring solvency could be required according to CDTI funding rules.
	For further information, please check CDTI website.
	http://www.cdti.es/index.asp?MP=7&MS=724&MN=3

Sweden

Funding agency name	Swedish Energy Agency (SWEA)
Programme name and link	National Energy Research and Innovation programme.
Contact person	Dr. Mimmi Magnusson, mimmi.magnusson@energimyndigheten.se, +46165420627
Eligible applicants	Public and private entities e.g.: - Universities - Research institutes - Companies - Municipalities
	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 Statues.
Eligible costs	Personnel, travel costs, consultancy, material costs, laboratory costs, equipment costs, patent, indirect costs (only academia).
Type of research funded	Basic research, industrial research, experimental development.
Require separate national/ regional full application	Yes, full national application is required. For more information see http://www.energimyndigheten.se/for-skning-och-innovation/forskning/soka-stod-och-rap-portera/ .
Funding available	€3 250 000
Further specifications	SWEA also provides practical assistance and, in some cases, support for the applications to the various energy programmes.



Switzerland

Funding agency name	Swiss Federal Office of Energy (SFOE)
Programme name and link	Pilot-, Demonstration- and Lighthouse Program http://www.bfe.admin.ch/cleantech/ (German and French only).
Contact person	Dr. Michael Moser, michael.moser@bfe.admin.ch, +41 58 465 36 23
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% 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 www.bfe.admin.ch/cleantech/05765/in-dex.html?dossier_id=05798
Funding available	€ 1 000 000
Further specifications	Admission criteria include: 1. Project topic contributes to increasing energy efficiency or use of renewable energy; 2. High application and success potential; 3. Project topic in line with the Swiss energy policy; 4. Gathered results are publically accessible and disseminated among interested circles.
	More criteria might be added depending on the topic/adjudication mode.
	Expected deliverables of pilot- and demonstration programme projects include:
	 Proof of concept of facilities, systems and proposed solutions Intermediate and final reports of individual projects providing details on technical feasibility, Operational achievements and project economics (particularly related to innovative energy technologies and installations)



 Demonstrated knowledge transfer to target com- munity providing details on individual measures that have been implemented
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.

The Netherlands

ine Netherlands	
Funding agency name	Netherlands Organisation for Scientific Research (NWO)
Programme name and link	 NWO supports research in Smart Grids based on its own strategic theme sustainable energy, and based on its support for the government's Topsector Energy Policy, in which Smart Grids play an important role. The Topsector Energy is divided into several consortia (Topconsortia for knowledge and Innovation, or TKI) for public-private partnerships in research and innovation The TKI Urban Energy and NWO together provide the funding for participation in this call NWO has several running research programmes, including Smart Energy Systems, Uncertainty Reduction in Smart Energy Systems, and Energy System Integration.
Contact person	Dr. Mark van Assem, <u>era-net-plus-sg@nwo.nl</u> , +31 70 344 0915
Eligible applicants	 NWO funding rules are applicable to all (co-)applicants who perform their research activities in the Netherlands. NWO funding rules are defined here: www.nwo.nl/documents/nwo/juridisch/regeling-subsidieverlening-nwo. 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. 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. 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).



- On behalf of a university of applied sciences (HBOinstelling) the lector acts as (co-)applicant and can apply for temporary positions in salary scales 10 or 11.
- (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 insti-
- 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.
- 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.

Eligible costs

The grant can be used for:

- temporary personnel costs;
- equipment related to the research proposal;
- travel, accommodation and meeting costs.

In accordance with the NWO-VSNU agreement, the nonstaff 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.

For all eligible applicants the VSNU standard tariffs for personnel costs apply (see http://www.nwo.nl/financiering/hoe-werkt-dat/Salaristabellen).



The maximum total amount applied for by Dutch applicants is $k \in 900$ per proposal. Please note: if the Dutch subproject involves more than one party, the total of $k \in 900$ 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 $k \in 900$ per proposal.

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.

A project can request one or more of the following positions:

- PhD student (4 years, but funded for maximum 38 months, see below)
- temporary postdoc 2 years
- temporary postdoc 3 years
- similar function (in terms of tasks and grading) at an institute or HBO-instelling, with a maximum funding of 38 months.

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.

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.
	Indemnification shall be in accordance with the standard costs in the NWO-VSNU agreement on the funding of scientific research. For details and tariffs: www.nwo.nl/financiering/hoe-werkt-dat/Salaristabellen . Tariffs are indexed annually.
	A separate Dutch application must be submitted together with the ERA-Net application before the deadline of the call. Please contact the national contact point for instructions and format of the Dutch application. ERA-Net applications submitted without a Dutch application are not eligible.
Type of research funded	Fundamental and applied research – TRL 1-6 (for activities of Dutch partners).
	The part of the project that Dutch partner(s) perform can only be conducted on topics described in <u>programme</u> <u>lines 4 and 5</u> of the <u>Knowledge and Innovation Agenda</u> (KIA) of the TKI Urban Energy. See especially sections 6.3 and 7.3.
	The KIA programme lines 4 and 5 describe research mainly in the "technical" disciplines such as mathematics, computer science and electrical engineering. However, research in the social sciences (e.g. law, regulation, economics) is also necessary to successfully implement technology. Therefore, research proposals can also address social science aspects of the topics described in the KIA programme lines 4 and 5.
	Whether or not an application conforms to this requirement is decided by the national assessment committee.
Require separate national/ regional full application	Yes.
	A separate Dutch application must be submitted together with the ERA-Net application before the deadline of the call. Please contact the national contact point for instructions and format of the Dutch application. ERA-Net applications submitted without a Dutch application are not eligible.



Funding available	€1 800 000
Further specifications	-

Turkey

Funding agency name	The Scientific and Technological Research Council of Turkey (TÜBİTAK)
Programme name and link	1509-International Industrial R&D Projects Grant Programme, http://www.tubitak.gov.tr/tr/destekler/sa-nayi/uluslararasi-ortakli-destek-programlari/icerik-1509-tubitak-uluslararasi-sanayi-ar-ge-projeleri-destekleme-programi
Contact person	Önder Zor, onder.zor@tubitak.gov.tr , +90 312 468 5300 / ext.4553
Eligible applicants	SMEs and large companies settled in Turkey.
Eligible costs	Personnel, travel, equipment/tool/software, R&D services from domestic RTOs, consultancy/other services, material costs.
Type of research funded	Applied research, experimental development.
Require separate national/ regional full application	Yes.
Funding available	€2 500 000
Further specifications	 Universities and research institutes are not eligible, but can benefit from the programme as subcontractors. Project application to 1509 Programme is mandatory and should be made in accordance with the call timeline. Deadline for this national application will be announced to the Turkish applicants. The national project cannot start before the ERA-Net Smart Grids Plus joint project. Grant rate is 60% for large companies and 75% for SMEs. If there is more than one Turkish partner in a project, they should make a joint project application to 1509 Programme.



2. ANNEX B - EVALUATION CRITERIA

Evaluation criteria		
Scores 0 – 5 (0 = Fail/Not applicable; 1 = Poor; 2 = Fair; 3 = Good; 4 = Very good; 5 = Excellent)		
(a) Excellence		
1. Relevance to the call		
- Piloting, validation and demonstration, fit to call (aim).	Score	
 Applicability to the three main challenges (see section 3), concerning stakeholder/adoption, marketplace and technology aspects. 		
- Sustainability/environmental contributions and impacts.		
2. Degree of innovation and innovative content		
 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.		
3. State-of-the-art and transnational value		
- 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.		
4. Applicability to the Three-Layer Research Model		
- 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).		
 The specific adoption/market challenges related to technology development need to be addressed. 		
The theories and methods that lie behind social or market assumptions must be relevant and clearly explained.		
- If market/social research or interventions are to be performed the methodologies should identify which kind of data to collect, how to collect it, and how to analyse it.	•	
(b) Impact		
1. Expected impacts		
Expected impacts are feasible and desirable.		
- Short-term and long-term impacts contribution to the call's aim.		
- Implementation contributes to the expected impacts.		



2. Scaling-up, reproducibility, replicability and interoperability potential		
- Project is furthering past or ongoing demonstration projects.		
- High scaling-up potential.		
- High reproducibility/replicability potential.		
- High interoperability potential.		
3. Link and contribution to past and ongoing relevant European initiatives in smart grids and the European Knowledge Base		
 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.	0-5	
- High contribution to fulfilling European smart grids initiatives' objectives.		
4. Appropriateness of measures for dissemination, exploitation		
and IPR		
- Target audience identified, clearly stating why they are important for the project and how they will be involved.	Score	
- Suggested communication activities appropriate and related with identified stakeholders.		
- Means of dissemination and exploitation of results.		
- IPRs described and handled appropriately (licenses, patents etc.).		
(c) Quality and efficiency of the implementation		
1. Quality and relevant experience of project team		
- Experience, specific expert experience (CVs).		
- Relevant interdisciplinary experience (complimentary expertise).	Score 0-5	
 Beneficial team composition (competence diversity – skills shall match the working areas identified on the project). 		
2. Appropriateness of the management structure and resource allocation		
- Management structure (roles) clearly defined and appropriate.	Score 0-5	
- Manageability of consortium (amount of partners, key players etc.).		
Resources are allocated suitably depending on specific expert competencies.		
3. Work plan/implementation feasibility and manageability		
- Detailed, clear and logical work/implementation plan.		
- Feasibility of Deliverables and Milestones.		
- Project delivers results efficiently in relation to the project budget.		
4. Risk identification, analysis and preventive measures- Risks appropriately identified.		
	0-5	



- Risk analysis is clear, coherent and logical. It should be applied to the work packages and the investigation approach used in the projects.	
 Preventive/remedial measures are proposed, and measures seem feasible and valid. 	
Total maximum score sum	60



3. 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.



4. ANNEX D - KNOWLEDGE COMMUNITY STANDARD WORK PACKAGE

Knowledge Community Standard Work Package

Please insert the tasks below into your overall Work Plan as appropriate, and allocate the resources needed in the project budget (see budgeting estimation below). Task 1 and 2 are organised by the ERA-Net Smart Grids Plus Support Team in cooperation with the funded projects. Task 3 will be organised by the ERA-Net Smart Grids Plus initiative with involvement of the Support Team.

Task 1. Involvement in formative evaluation

Task 1.1 – Formative evaluation

- Participation in the ERA-Net Smart Grids Plus joint project kick-off meeting
- Participation in annual meeting on status of the project with key project members, including interviews (*virtual meeting preferable*).
- Participation in two short surveys per year on current issues affecting the ERA-Net Smart Grids Plus Knowledge Community.

Task 1.2 – Profiling through Key Performance Indicators (KPIs)

 Reporting the current scope and targets of the projects via project profiling. The projects will answer about 25 questions in an online tool according to an "evaluation and profiling"-manual that will be handed out to the projects at their start.

Task 1.3 – Review results of evaluation reports, partly in face-to-face or virtual meetings with the evaluating experts.

Task 1 resource requirement estimation: 14 - 17 days/year/project.

Task 2. Crosscutting Knowledge Community activities

Task 2.1 – Working groups

• Participation in, preparation for and follow-up from the working groups in physical and web-based meetings (projects are expected to participate in a minimum of three working group meetings per year).

Task 2.2 – Living documents and work with the Knowledge Sharing Platform

• Input to living documents reflecting involvement in working groups as well as other project results, e.g. clarify conclusions, give feedback, provide examples etc.

Task 2.3 - Cooperation on communication and dissemination activities

 Participate in teleconferences and workshops to detect synergies between the projects, and support and improve communication and dissemination activities.



Task 2 resource requirement estimation: 21 - 37 days/year.

Task 3. Deliverables to the ERA-Net Smart Grids Plus initiative (in addition to national/regional funding agency requirements, if applicable).

- o Task 3.1 Annual reporting (in 2017, 2018 and possibly 2019)
- Task 3.2 Final reporting (2019-2020, depending on project end date)
- Task 3.3 Kick-off event/Annual seminars
- o Task 3.4 Final seminar
- Task 3.5 Abstract of the main results for reporting to the European Commission

Task 3 resource requirement estimation: 15 days/year/project.

Budgeting of resources for the abovementioned tasks

The exact amount of resources to be committed depends on the project length, size, consortium composition and specific project focus. The final organisation and execution of the tasks will be the result of an iterative process between the Support Team and each funded project as applicable. The estimated resources required for Task 1, 2 and 3 are:

- i. 50 70 days/year/project.
- ii. €7 000 €10 000/year/project for travel, accommodation and related expenses.

Advised minimum total resource allocation: €60 000 regardless of project duration.

Background Information

The Knowledge Community will enable monitoring of progress and results, emphasising and fostering interoperability, scalability and replicability of the results and solutions deployed on a national and European level within the ERA-Net Smart Grids Plus initiative. The Knowledge Community is already ongoing and more content information on the topics of formative evaluation (Task 1.1), KPI/profiling approach (Task 1.2), working groups (Task 2.1), scope of the living documents (Task 2.2), the functionalities of the Knowledge Sharing Platform (Task 2.2) and other issues can be obtained on the <u>ERA-Net Smart Grids Plus Knowledge Community</u>.

The cornerstones to achieving the goals of the Knowledge Community are by the working groups and the virtual knowledge collaboration, organised by the ERA-Net Smart Grids Plus Support Team. In order to reduce physical meetings and travel costs, a web-based Knowledge Sharing Platform will be implemented and host a variety of functions. Its main functionality is to facilitate collaborative work on so-



called living documents by documenting the knowledge progress in the working groups, and share knowledge and information beyond the working groups' scope.

The involvement in the Knowledge Community of the projects funded in this call can vary depending on their length, magnitude and focus topics. The final set-up of working groups will not be fixed for the entire duration of the initiative, as projects are encouraged to take part in shaping the Knowledge Community, such as creating additional working groups. Furthermore, the activities of the working groups will develop over time through an iterative process, and the requirements may change from year to year, making involvement flexible over time. Projects are expected to participate in a minimum of three working groups, and encouraged to join more. Projects can also write and share in the living document whilst not actively participating in that specific working group. Depending on available resources for personnel and travel costs, the projects should decide on a flexible involvement in different groups and allocate a certain amount of days and relating travel costs to join the Knowledge Community.

The annual formative evaluation reports will be performed based on the projects' involvement. In addition, the Support Team will facilitate profiling of the initiative on a reference level and of the individual projects via KPIs. The Support Team will provide the projects with templates and manuals to profile their own efforts annually. This profiling will be oriented along the lines of Technology Readiness Levels, the EEGI objectives etc. Please note that the ERA-Net Smart Grids Plus KPI approach is not supposed to rank the projects, but to ensure the complementary approach and inform the funding agencies and the initiative of existing R&D gaps that could be addressed in later calls.