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# European Research Infrastructure supporting Smart Grid and Smart Energy Systems Research, Technology Development, Validation and Roll Out – Second Edition

## LAB ACCESS GUIDE

V4

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*Publication date:* 04/03/2021  
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## List of Abbreviations

<i>EC</i>	European Commission
<i>EU</i>	European Union
<i>HTD</i>	Holistic Test Description
<i>ICT</i>	Information and Communications Technology
<i>IP</i>	Intellectual Property
<i>P2X</i>	Power to Gas, Power to Heat, etc.
<i>PHIL</i>	Power Hardware-in-the-Loop
<i>RI</i>	Research Infrastructure
<i>RP</i>	Responsible Person
<i>RTD</i>	Research and Technological Development
<i>SME</i>	Small and Medium-sized Enterprise
<i>USP</i>	User Selection Panel

## 1 Introduction

ERIGrid 2.0 is a pan-European research infrastructure (RI), which integrates 21 first-class laboratories located in 13 European countries, and aims at placing this RI at the disposal of the European research community, including industrial organisations, in a four-year access programme supported by the European Commission (EC) through the H2020 Framework Programme.

ERIGrid 2.0 offers to all interested researchers in the domains of smart grids and smart energy systems free of charge access to RIs and associated services along with logistical, technological and scientific support for their own experimental research. Access to physical laboratories can be organised either on-site or remotely. In addition to the lab operation costs, the on-site lab access scheme also covers the expenses of travelling and accommodation for the stays at the selected laboratories.

The objective of this document is to become the basic guide for those user groups who are thinking of using the ERIGrid 2.0 lab access (on-site or remote) and benefiting from this opportunity. The document specifies the general rules of the ERIGrid 2.0 lab access scheme, covering the eligibility of the users and the end-to-end procedure to be followed in the ERIGrid 2.0 lab access programme: call announcement, proposal evaluation and selection, and the mandatory dissemination of the user project results.

This guide does not include the descriptions of the laboratories offered by ERIGrid 2.0 and the concrete access conditions applicable to the individual installations. This information is available at the ERIGrid 2.0 website ([www.erigrd2.eu](http://www.erigrd2.eu)).

## 2 Eligibility of the user groups

Lab access is provided to selected 'users' and 'user groups' (teams of one or more researchers led by a user group leader). The selection will be done through the evaluation of the received user project proposals by an independent review panel of experts from different domains that are involved in smart grids and smart energy systems (power systems, ICT, cybersecurity, etc.).

The user group leader and the majority of the user group members should work in an institution/ Small and Medium-sized Enterprise (SME) located in a different country to the country where the lab is located ('trans-national' characteristic of the lab access). For multi-site projects this rule applies to all sites to be accessed.

The ERIGrid 2.0 lab access is open to engineers and researchers that are primarily from organizations (this includes SMEs and larger industries) located in a European Union (EU) Member State or [H2020 Associated Countries](#) (Albania, Armenia, Bosnia & Herzegovina, Faroe Islands, Former Yugoslav Republic of Macedonia, Georgia, Iceland, Israel, Moldova, Montenegro, Norway, Serbia, Switzerland, Tunisia, Turkey, and Ukraine).

Limited lab access is also available to applicants from non-EU countries ('[third countries](#)'): the limitation is not on the number of user groups from these countries but on the amount of access that can be provided by ERIGrid 2.0; access for user groups with a majority of users working in third countries is limited to 20% of the total amount of units of access provided under the grant. The general H2020 conditions for International Cooperation and H2020 rules apply for formal eligibility.

Only user groups that agree to disseminate the results that they have generated under the project are eligible to benefit from access to the infrastructure free of charge. This mandatory dissemination requirement does not apply to SMEs. Young scientists at the start of their careers and female researchers will be positively considered.

The duration of the stay at a RI will normally be 1-4 weeks but in some cases longer stays of up to three months may also be justified (for visits to the installation/s exceeding three months written approval from the EC must be requested by the access provider).

Despite the fact that the user group implementing the project in the lab is normally composed of two researchers, one single researcher is also allowed. Unless fully justified, the maximum number of researchers getting access to the lab must be always kept to three.

### 3 Lab access procedure

This section describes the steps of the entire procedure, detailing how the lab access in ERIGrid 2.0 will be implemented through successive public calls. It provides the criteria for the assessment and selection of proposals by the User Selection Panel (USP) and sets the general rules for the development of the selected user projects and the dissemination of the results. In addition, it defines the general contractual conditions pertaining to the researcher stay at the infrastructures. Further elaboration and specifics will be detailed using a contract.

The general timeline is shown in Figure 1. As a reference, the duration of the call and the associated user access will last for around twelve months, with the following main time periods:

- The call will remain open for three months.
- The received proposals will be normally evaluated within one month (two months maximum) after the closing date of each call.
- The access period must be allocated within six months after acceptance of the proposal with a typical duration of 1-4 weeks (and limited to a maximum of three months if well justified). The implementation can be split into two phases (two access periods) in the lab, if necessary, but not more.
- After finishing the lab access, the user group has up to two months to carry out the mandatory reporting of the project experiments.

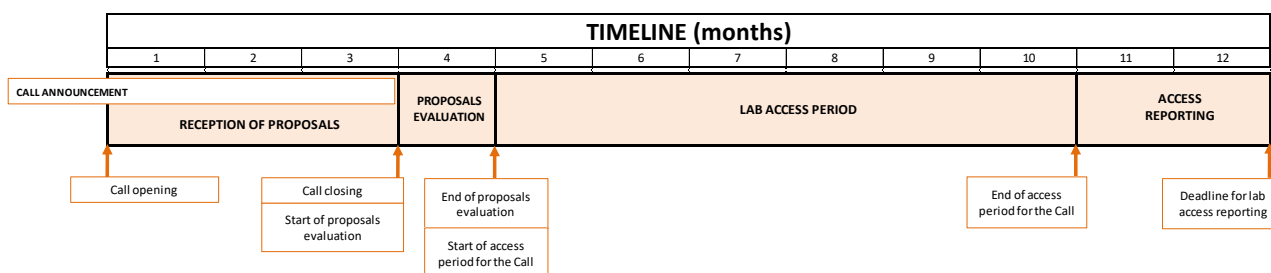


Figure 1: Lab access call reference timeline.

In ERIGrid 2.0, lab access calls will be launched every four months, with the same reference timeline as outlined in Figure 1. The call sequence for the first three calls is illustrated in Figure 2.

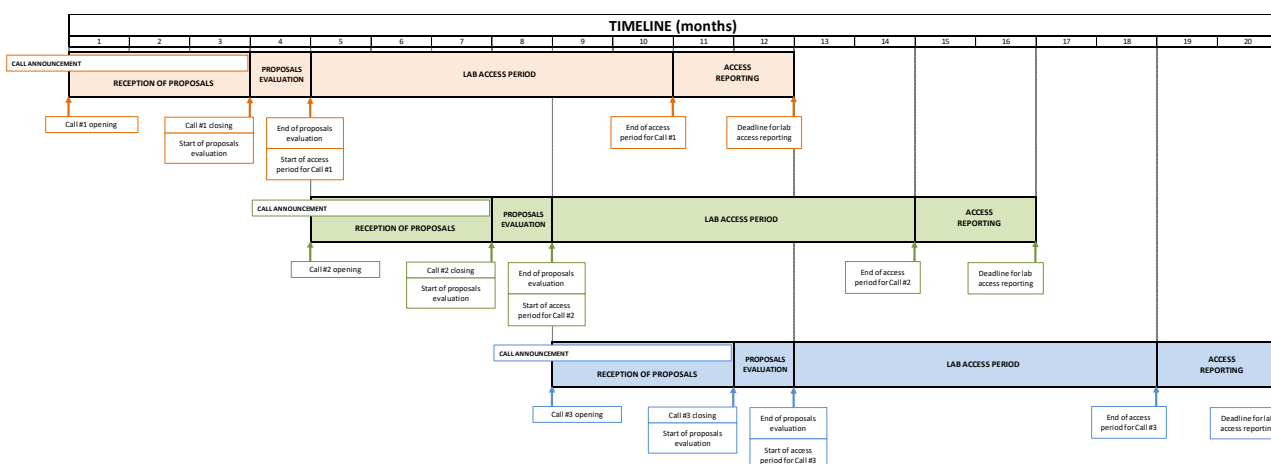


Figure 2: Sequence of lab access calls.

### 3.1 STEP 1: Publications of the calls for proposals

Every four months a call for proposals will be launched by ERIGrid 2.0 for lab access to conduct experiments at the involved RIs (see their descriptions at [www.erigrd2.eu](http://www.erigrd2.eu)). A total of ten calls are foreseen during the course of ERIGrid 2.0.

The announcement of the lab access calls will be done through the ERIGrid 2.0 website ([www.erigrd2.eu](http://www.erigrd2.eu)), social networks, advertisement through different channels (posters, flyers, press releases, ERIGrid 2.0 partners' web pages, etc.), publications at conferences, workshops and journals, and direct contact with potential users.

#### 3.1.1 Topics targeted by the calls

The calls for proposals will be targeted to research and development of smart grid and smart energy system concepts and configurations, and to testing and validation methods and tools following a holistic approach.

Future electrical networks will integrate higher shares of fluctuating renewable energy, distributed energy resources at all voltage levels, active prosumers, electrical vehicles, demand side management programmes, etc. Besides the power system components, like the grid infrastructure, storage, generation, consumption, etc., it also comprises ICT, cyber-security, sector coupling, multi-domain (heat, P2X), markets, regulation, etc. Any project proposal covering these broad and complex themes, will fall into the ERIGrid 2.0 lab access scope and may be eligible.

In this context, those proposals contributing to the improvement of the services provided by the infrastructures, the harmonisation and optimization of methodologies, and the reinforcement of the partnership with industry will receive a special consideration.

The experimental research on the selected research topics must be implemented in one (or several) of the offered labs listed at [www.erigrd2.eu](http://www.erigrd2.eu), therefore, technical and economic feasibility will be checked in advance by the corresponding labs based on the available equipment/facility and offered services.

### 3.2 STEP 2: Submission of the user proposals

In response to the calls, user groups will submit their project proposals to ERIGrid 2.0. The submission will be done electronically before the call deadline from the ERIGrid 2.0 website (via [ConfTool](#)). The proposal document must be completed using the proposal template (Annex 1), available on the ERIGrid 2.0 website.

The user group preparing the proposal will indicate the preferred infrastructures (one, two or three options are allowed) where the experimental research will be carried out. These preferences will be considered, to the extent possible, during the evaluation process.

Normally (it is not mandatory but recommended for a successful proposal), before submission of the application form, the user group will contact the preferred infrastructure/s to check the preliminary availability of the facilities and feasibility of the experiments, and to clarify the research objectives and access conditions. This consultation will never mean any preference or special treatment of the proposal during the independent evaluation process.

Depending on the objectives and needs, an individual project could be implemented in several laboratories ('multi-site user project'). In this case, the user will justify the need for several installations in the proposal and indicate the selected ones. The user will clearly establish the work programme, specifying the sequence of the lab accesses and expected duration at the different installations.



### 3.3 STEP 3: Evaluation of the user proposals

The selection of researchers or research teams benefitting from the access opportunity will be carried out through an independent peer-review evaluation of their research projects.

The evaluation of the user project proposals will be done by the USP. The entire evaluation process is expected to be completed within 1-2 months after the deadline for the submission of proposals in each call. In parallel with the USP evaluation, the laboratories selected by the user group in the proposal will perform a so-called 'pre-screening'.

#### 3.3.1 Pre-screening

The pre-screening is the first assessment of the technical, economic and organizational feasibility of the received proposal done by the three labs selected (preferred) by the user group. Technical problems, risks and related costs will be considered. No further evaluation criteria will be employed at this stage.

If the proposal is not feasible at any of the three selected labs, it will be circulated among the rest of the labs, so they can assess it for feasibility. The proposal will be assigned to one of the labs not initially selected by the user group, but able to implement the user project. If more than one infrastructure can develop the project, the user group will be contacted to choose. Finally, if the proposal (even modified or adapted) cannot be technically implemented at any lab, it will be rejected as unfeasible.

The pre-screening is expected to run smoothly if preliminary contact has been established between the proposing user group and the selected infrastructures.

#### 3.3.2 USP evaluation

All received proposals will be evaluated by the USP following the principles of transparency, fairness and impartiality. The USP is a group of experts from within and outside ERIGrid 2.0 partner organisations with diverse profiles (academia, research, industry) and covering the different domains of the smart grids and smart energy systems arena (power systems, ICT, etc.). Each proposal will be assessed by at least three experts of the USP. The ERIGrid 2.0 Lab Access Manager and the ERIGrid 2.0 Coordinator will not participate in the proposal evaluation but shall guarantee the compliance of the proposal with the eligibility rules of the lab access.

Each USP member reviewing a proposal will evaluate the following categories:

- a) *General quality of the proposal* (score: 0-10): completeness and organization of the proposal, clear definition of the objectives and expected results, relevance of the proposed dissemination actions, justified amount of access requested.
- b) *Scientific/technical merit* (score: 0-10): scientific and technical relevance, originality and innovation, methodology, robust and realistic test/evaluation approach.
- c) *Improve know-how and capacity of the lab* (score: 0-10): improvement of know-how within the laboratories, enhancement of lab technologies and methods, alignment with ERIGrid 2.0 scenarios/use cases/test cases, synergies with other projects and cooperation with other infrastructures.
- d) *Compliance with EU policies and priorities* (score: 0-10): compliance with European RTD policies and priorities, social impact, impact on EU industry (e.g., standardization and competitiveness), sustainable growth interest, new users that have not previously used the installation, users working in countries where no equivalent research infrastructure exist, young researchers, female researchers.

Additionally, in this phase the USP may provide comments and suggestions to improve the project implementation in the lab (if the proposal is accepted in the end) or build a better proposal for resubmission to future calls (if the proposal is rejected in the current call).

For each proposal, the USP expert will issue a score, which will be the average of the scores of the four individual categories, expressed as total points out of 100. All the categories have the same weight. The final score of the proposal will be calculated as the mean value of the scores issued by the USP members evaluating the proposal:

- Excellent (75-100)
- Good (50-75)
- Fair (25-50)
- Poor (0-25)

Besides the USP evaluation all proposals are also checked against plagiarism (in accordance to the general [H2020 strategy](#)). Proposals with an unjustified high amount of similarity will not be considered for realization; i.e., they will be rejected!

### **3.4 STEP 4: Selection of the proposals and notification to the user groups**

All the proposals will be ranked based on the scores assigned by the USP. 'Poor'-scored proposals will be normally rejected. Proposals resubmitted, that may have been unsuccessful in previous calls, will be evaluated as new ones.

The user group of each proposal will be formally notified of the evaluation result at the end of the evaluation period (1-2 months after the call deadline). This result will be accompanied with comments and possibly suggestions for improvement.

If due to technical/economic/organisational feasibility or laboratory availability none of the labs selected by the user group can be allocated, a different lab may be offered. If this is the case, the user group can (1) withdraw the proposal, (2) update and resubmit the proposal as a new one in one of the next calls, (3) remain with the assigned score for the next call, when it will be ranked in a new list with the new proposals, or (4) accept the alternative lab suggested by the lab access organisers.

### **3.5 STEP 5: Access to the lab**

When a proposal is accepted, a focused interaction between the proposing user group and the host infrastructure starts. The estimated access period indicated in the proposal must be confirmed and agreed between the user group and the host lab. Normally, the access period should be allocated to a date within the next six months after the acceptance notification to the user, following the agreement of the technical details for executing the experiments and fulfilment of administrative issues.

#### **3.5.1 Signature of the contract**

Before the commencement of the project, a contract must be signed between the host lab and the user group (individual contracts with each host lab involved will be necessary for a 'multi-site project'). A basic template contract is available for use in all ERIGrid 2.0 lab access projects as a reference model, but extensions or specific modifications may be introduced by each of the labs for the project, as necessary; the essential information is outlined in Annex 2.

The contract includes the clear identification of user group members that are authorised to enter the infrastructure, the responsible person at the host lab that will act as the single point of contact for the user group during the project, basic conditions regarding confidentiality, liability, intellectual property rights and safety, all of which must be agreed upon well in advance. Reporting of project results by the users is key for the EC and therefore becomes binding by means of this contract. Finally, the conditions and procedure for reimbursement of expenses are also included.

Additionally, the contract includes an initial stay duration for the access period, to be agreed upon by the user group and the host lab. However, the stay duration can change during the course of the project due to several factors. At the end of the stay, both the user group and the host lab must sign a declaration covering the final and definitive use of the infrastructure.

Finally, the contract has a Technical Annex that formulates the Test Case and describes the work programme (tasks, experiment plan, time schedule, etc.) to be performed during the access period in the lab. This annex must be coherent with the proposal (even though some adjustments in practice are allowed). Significant modifications of the technical content or the access conditions (e.g. number of access days) with respect to the planned ones in the proposal should be checked with the ERIGrid 2.0 lab access organisers.

For the formulation of the Test Case in the Technical Annex of the contract, the use of the Holistic Test Description (HTD) canvas is mandatory. HTD is a methodology developed in ERIGrid 1.0 that facilitates the conception, deconstruction and reproduction of complex experimental designs in the domains of cyber-physical energy systems<sup>1</sup>. The complete HTD method comprises several sequential steps on the path to implementation of an experiment (*Test Case*, *Qualification Strategy*, *Test Specification*, *Experiment Realisation Plan* and *Experiment Specification*), however, only the initial one (*Test Case* formulation) is required for the contract.

### 3.5.2 Assistance to the user group

Each lab must nominate a Responsible Person (RP) for each accepted user project (linked to a proposal). The RP is in charge of supervising the experimental activity at the lab (including the safety matters), and supporting the user group in all technical, administrative and logistic needs. The RP is also the reference person for reporting to ERIGrid 2.0 on the state of the activity running at the lab.

### 3.5.3 Declaration of the use of the lab

At the end of the access in the lab, the user group must declare the use of the installations by signing a specific form (attached to the contract) and indicating the total number of 'access days' (days of real use of the lab) and the total number of 'stay days' (which includes the access days in the lab but normally also the days working in the office of the host, weekend days if applicable, etc.) of each member of the user group.

## 3.6 STEP 6: Reporting and publication of the project results

As soon as the experiments on the infrastructure come to an end, the user group must fulfil the reporting and dissemination commitments, specified in the access contract. Two mandatory reporting actions must be accomplished by the user group within two months after the end of the access: an on-line questionnaire for the EC, and the project technical report.

### 3.6.1 User group questionnaire

One of the aims of the European Research Infrastructures Action is to provide scientists from anywhere within the community with easy access to Europe's major RIs. The Action is implemented through grant agreements between the EC and major European RIs. These grant agreements serve to support, among others, the mobility costs of visiting scientists and their costs of using the infrastructure.

By means of a questionnaire completed by the user group, the EC evaluates the Research Infrastructures Action in general, and monitors the ERIGrid 2.0 lab access programme in particular. All

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<sup>1</sup> Heussen, K. et al. (2019). ERIGrid Holistic Test Description for Validating Cyber-Physical Energy Systems. *Energies* 2019, 12, 2722.

replies are treated in strictest confidence. The questionnaire to collect the user feedback on the access must be filled on-line at <https://ec.europa.eu/eusurvey/runner/RIsurveyUSERS>.

### 3.6.2 User project technical report

In addition to the general feedback on the access service captured by the EC questionnaire, dissemination of the project results is crucial. The first step in this process is the preparation of the project technical report to provide all the technical details and to put the investigation results at the disposal of the research community.

For some industrial users' projects, the technical report might contain confidential information. In this case, special provisions will be taken by ERIGrid 2.0 and the EC, among them, the technical report will not be made publicly available (it will be distributed just to the Host Infrastructure, the ERIGrid 2.0 Project Coordinator, and the EC). SMEs are excluded from the preparation of this report.

A draft version of the technical report must be prepared by the user group and sent to the host infrastructure for comments and validation. After the needed interactions between the user group and the host lab, the definitive technical report will be sent to the ERIGrid 2.0 lab access organisers.

The basic content of the user project technical report is the following:

1. General information of the user project: title, acronym, host lab, access period, user group members.
2. *Executive summary*.
3. Research motivation. Objectives. Scope.
4. Brief State of the Art or State of Technology.
5. Tests and experiments executed:
  - Test Plan.
  - Standards, procedures and methodology.
  - Test set-ups and implementation details (involved equipment and communications, control strategy, monitoring aspects, etc.).
  - Data management and processing.
6. Results and conclusions.
7. Open issues and suggestions for improvements.

An executive summary of up to two pages also has to be included in this technical report, presenting in a condensed manner the objectives and motivation, the basic project implementation details (approach, methodology, set-up) and the main achievements (results, conclusions and lessons learned). This summary will be widely used in the course of the ERIGrid 2.0 project through its website, dissemination material, general presentations, etc.

### 3.6.3 Further publications

In order to provide evidence of the soundness of the scientific work performed at the host lab in ERIGrid 2.0, the user group is encouraged to publish the results in journals, conferences, etc. As soon as they are accepted for publication or published, the user group will provide detailed information to the ERIGrid 2.0 Lab Access Manager and the ERIGrid 2.0 Project Coordinator on the corresponding abstracts, papers, reports, conference presentations, etc. related to the access activity. Preferably, open access publications should be chosen.

Whenever possible ERIGrid 2.0 would like to receive any publication made as a result of the access to publish it in the website (provided that the full rights of the researchers are not affected and the copyright conditions are not violated: for example, pre-print or post-print copies could be acceptable for non-open access publications).

Presentations and publications which result from lab access in ERIGrid 2.0 must be in English (at least the first one associated to the access), shall display the EU emblem and contain the acknowledgement:

*'This research has been performed using the ERIGrid 2.0 Research Infrastructure and is part of a project that has received funding from the European Union's Horizon 2020 Research and Innovation Programme under the Grant Agreement No. 870620. The support of the European Research Infrastructure ERIGrid 2.0 and its partner <name> is very much appreciated'.*

Any communication activity related to the project must indicate that it reflects only the author's view and that the Commission is not responsible for any use that may be made of the information it contains ('Disclaimer excluding the Commission responsibility').

According to the conditions of the EU H2020 support for lab access, ERIGrid 2.0 project reports to the EC will contain the names, home institutions and description of the work of the users. The ERIGrid 2.0 website will publish a list of projects naming the researchers' organizations, research project titles and short descriptions, and the facilities used. Users must also note that the EC has the right to publish the list of users.

#### 4 Reimbursement of the access expenses

The lab access offered by ERIGrid 2.0 covers the user group's expenses for travel and subsistence according to the H2020 rules and the host RI conditions (see [www.erigrd2.eu](http://www.erigrd2.eu)).

Reasonable travel expenses (low-cost flight company, economy class and public transportation, whenever possible) will be reimbursed with the presentation of the corresponding invoices or receipts. For the daily subsistence expenses (accommodation in conventional – not luxury – hotels or equivalent lodging, and meals in regular restaurants), two possibilities (or a combination) are allowed depending on the host labs conditions:

- *Payment by invoice*: the user group will get the refund of the subsistence costs after the stay, when declaring the incurred expenses and presenting the invoices/receipts (same mechanism as the reimbursement of the travel expenses); normally, the host infrastructure indicates a reference maximum amount per person for the daily subsistence fee as an indication for the users.
- *Daily allowance*: each user receives a per-day pocket money for each day of stay according to the host infrastructure conditions to pay for all the daily subsistence expenses. The user must sign the corresponding payment receipts provided by the host infrastructure: one for the ERIGrid 2.0 project records, and presumably, another one for the host lab's accounting department.

A template for the declaration of the expenses by the user group is available and must be sent to the host lab for approval and refund. In a similar way, another template will be used as the payment receipt by the host infrastructure when a daily allowance is used.

## 5 Remote lab access

An alternative to the on-site lab access is the so-called remote lab access. By means of this option, an accepted user project can be implemented in a lab without the presence of the user group in the installation. All the involved experiments will be carried out by the host lab staff in fluent communication (phone, email, etc.) with the user, who will follow the work remotely. In this case, the experiment preparation phase is even more important than in an on-site access, since the users will not be in the lab for direct supervision and set-up adjustments.

This access type has several advantages:

- Lower access expenses: no trips, accommodation, insurances, visas for non-EU users, etc. are involved. Declaration of expenses and reimbursement do not apply.
- Safety issues: no safety indications and precautions are needed for the users since they will not be physically present in the lab.

However, the laboratory must be booked in advance for these experiments during the access period, and the host lab staff will be preparing the set-ups and performing the testing, with the corresponding costs. A contract between the user group and the host lab is mandatory for this type of access too since confidentiality, liability and Intellectual Property (IP) issues still apply and must be formalized. Similarly, the mandatory technical report must be submitted by the user when the experiments are finished within the next two months.

## 6 Annexes

### 6.1 Annex 1: User project proposal template

This appendix includes the proposal template to be filled by the user groups applying for a lab access opportunity in the ERIGrid 2.0 calls. The Word version can be downloaded from the ERIGrid 2.0 website: <https://erigrd2.eu/lab-access/>, where it can also be submitted electronically (via ConfTool: <https://www.conftool.net/erigrd2/>).

## ERIGrid 2.0 LAB ACCESS APPLICATION FORM

### USER PROJECT PROPOSAL

User Project Acronym	
User Project Title	
Main Scientific/Technical Field	
Proposal resubmitted (Y/N)	Choose an item.
Keywords (5 max., free text)	

### PREFERRED HOST LABORATORY/RESEARCH INFRASTRUCTURE

Option 1	Choose an item.
Option 2	Choose an item.
Option 3	Choose an item.
Proposed starting date of the access	Click or tap to enter a date.
Expected access duration (in weeks)	

### LEADER OF THE PROPOSING USER GROUP

Name	
Nationality	
Gender	Choose an item.
Age below 35-year-old (Y/N)?	Choose an item.
Email address	
Organization name	
Organization address	
Organization website	
Organization activity type	Choose an item.

### MEMBERS OF THE PROPOSING USER GROUP (repeat for all Users)

Name	
Nationality	
Gender	Choose an item.
Age below 35-year-old (Y/N)?	Choose an item.
Email address	
Organization name	



Organization address	
Organization website	
Organization activity type	Choose an item.

*[Please, fill the following sections taking into account that the final document should not be longer than **10 pages** (i.e., applies for Points 1-9, excluding the meta data page(s); the italic/yellow text in the brackets should be removed; the rest will not be considered for the proposal evaluation). **Please do not change the format and/or the font type/size of the template!**]*

### **1. SUMMARY OF PROPOSED RESEARCH** (about ½ page)

*[Prepare a ½ page summary describing the relevance, scope and objectives of the proposed work, and the expected outcomes.]*

Text in 11 pt, Calibri

### **2. STATE-OF-THE-ART/RELATED WORK** (about 1 ½ page)

*[Describe in brief (about 1½ page) the current knowledge on the subject, citing recent relevant references. Identify any knowledge gaps and their relevance.]*

Text in 11 pt, Calibri

### **3. DETAILED DESCRIPTION OF PROPOSED PROJECT: OBJECTIVES, EXPECTED OUTCOMES, AND FUNDAMENTAL SCIENTIFIC/TECHNICAL VALUE** (3 pages maximum)

*[Provide a detailed description of the objectives of the proposed activity, the way these objectives will be fulfilled through the proposed work, as well as indications on the expected outcomes and the fundamental scientific and technical value and interest of the proposal. Specify the activities to be undertaken, the type of infrastructure needed, the foreseen test setup, number of tests, possible test sequence, and parameters to be measured and controlled. Describe any special requirements for equipment, standards, safety measures, etc. Evaluate how robust and realistic the proposed approach is. Point out any shortcomings, uncertainties and risks for the fulfilment of the project objectives, as well as the means to mitigate relevant risks.]*

Text in 11 pt, Calibri

### **4. ORIGINALITY, INNOVATION AND IMPACT OF PROPOSED RESEARCH** (2 pages maximum)

*[Demonstrate the originality and innovation of the proposed work and the impact the expected results will have on current and future research or practice, public safety, European standardization, competitiveness, integration and cohesion and on sustainable growth.]*

Text in 11 pt, Calibri

### **5. SYNERGY WITH ONGOING RESEARCH** (about ½ page)

*[Provide information on any concurrent research project with the same or similar subject with the one proposed. Describe the synergy (if any) that will be sought between the existing and the proposed project. Explain the degree of alignment with the ERIGrid 2.0 approach, scope and objectives]*

Text in 11 pt, Calibri

### **6. PROPOSED HOST LAB/RESEARCH INFRASTRUCTURE – JUSTIFICATION** (about ½ page)

*[Specify the type of infrastructure/installation needed for the research (e.g. microgrid, PHIL platform, etc.), which must be coherent with the preferred options indicated in the first page of this proposal; justifications should be provided on the grounds of the test setup, testing method, equipment, past experience in relevant subject, etc. Describe the potential benefits for the host research infrastructure in terms of improvement of know-how or enhancement of technologies and methods. Explain whether the proposing user*

*group intends to deliver to the premises of the infrastructure parts or components to be tested at the user group's expense and responsibility, or to cover the whole or part of the construction/adaptation cost of the specimens to be tested.]*

Text in 11 pt, Calibri

#### **7. DISSEMINATION – EXPLOITATION OF RESULTS** (about ½ page)

*[In addition to the mandatory reporting for the access described in the “ERIGrid 2.0 Lab Access Guide” document, indicate other means through which the results to be obtained from the proposed project will be diffused and made broadly known.]*

Text in 11 pt, Calibri

#### **8. TIME SCHEDULE** (about ½ page)

*[Provide an indicative time-schedule for the proposed work and a target starting date.]*

Text in 11 pt, Calibri

#### **9. DESCRIPTION OF THE PROPOSING TEAM** (1 pages maximum)

*[Give a short description of each member (organization and persons) of the proposing team including projects, publications, technical experience and capabilities and role in the proposed project.]*

Text in 11 pt, Calibri

## 6.2 Annex 2: Essential information to be included in the access contract

A contract for the access to the lab between the proposing user group and the host lab must be signed by both parties before starting the project implementation for regulating the stay, lab use conditions and responsibilities of all parties involved.

The contract must have as an Addendum a Technical Annex, which comprises the initial test case description to be implemented in the lab and the agreed work programme for performing the experiments during the access period. The final balance of 'access days' and 'stay days' of the user group members will be stated in another Addendum of the contract to be signed by both parties at the end of the access.

A reference model of this contract is available containing the basic clauses; the host lab can include additional clauses in the final version to cover additional specific aspects of the stay, including country regulations and company-related conditions. Basic clauses are the following:

1. Identification of the contractors: lab legal name, representatives of the lab for the execution of the contract, name and home institution of the leader of the user group, authorize representative of the home institution, etc.
2. Identification of the members of the user group and appointment of the user group leader.
3. Reference to the ERIGrid 2.0 project and EU funding.
4. Definitions (whenever necessary).
5. Access provisions: total number of expected "access days" in the lab.
6. Travel and subsistence reimbursement conditions.
7. Safety provisions.
8. Reporting and dissemination commitments.
9. Liability conditions.
10. Confidentiality obligations.
11. Intellectual Property Rights issues.
12. Signatures.
13. Addendum: Technical Annex.
14. Addendum: Declaration of real use of the lab.