



# INCEPTION REPORT

for the project

*Technical support to the Energy Community and its Secretariat to assess the candidate Projects of Energy Community Interest (PECI) and candidate Projects for Mutual Interest (PMI) in electricity, gas and oil infrastructure, and in smart grids development, in line with the EU Regulation 347/2013*



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# TABLE OF CONTENTS

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1	Introduction .....	1
1.1	Study background .....	1
1.2	Objectives .....	1
1.3	Outputs and deliverables .....	2
2	Methodology .....	2
2.1	Overview of tasks .....	2
2.2	Task 1: Preparing the questionnaires .....	3
2.3	Task 2: Verification of project data .....	4
2.4	Task 3: Market modelling in electricity and gas and cost benefit analysis .....	5
2.5	Task 4: Network modelling .....	13
2.6	Task 5: Multi-criteria assessment .....	15
2.7	Task 6: Methodology for the evaluation of projects in the oil infrastructure and in smart grids .....	16
3	Organisation of the work .....	18
3.1	Communication .....	18
3.2	Work plan .....	19
4	Annex 1: Questionnaires .....	20
	Electricity interconnector projects .....	20
	Electricity storage projects .....	30
	Gas interconnector projects .....	40
	LNG terminal projects .....	52
	Underground gas storage projects .....	62
	Crude oil interconnector projects .....	73
	Smart Grid projects .....	83
5	Annex 2: Minutes of the phone Conference 12.01.2016.....	94

## 1 INTRODUCTION

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This Inception Report is the first deliverable prepared by REKK, in collaboration with DNV GL (hereafter Consortium), as part of the technical support to the Energy Community and its Secretariat to assess the candidate Projects of Energy Community Interest (PECI) and candidate Projects for Mutual Interest (PMI) in electricity, gas and oil infrastructure, and in smart grids development, in line with the EU Regulation 347/2013 adopted by the Energy Community.

The report builds upon the original tender document submission by the Consortium and takes into account feedback received from the Secretariat and DG Energy. More specifically, this report provides an updated work plan for the key tasks that will be performed as part of the study. In particular, it further builds on our original proposal by providing:

- a detailed methodology (in Section 2)
- an updated work plan, which incorporates the feedback of the Energy Community Secretariat (in Section 3.2)
- final version of the questionnaires (in Section 4, Annex 1)

### 1.1 STUDY BACKGROUND

The objective of the project is to assist the Energy Community Secretariat and the two Groups as defined by the Ministerial Council Decision (D/2015/09/MC-EnC: On the implementation of regulation (EU) No 347/2013 of the European Parliament and of the Council on guidelines for trans-European energy infrastructure) to implement the procedure and achieve the scope of assignment, namely to propose a list of Projects of Energy Community Interest (PECI) and Projects of Mutual Interest (PMI) to the Ministerial Council for adoption in 2016. The proposed methodology should be in line with the EU 347/2013 Regulation as much as possible.

In addition, also the methodology applied for the latest selection of EU Projects of Common Interest (PCIs) under the same Regulation as well as the methodologies for the assessment of network infrastructure projects developed by ENTSOE and ENTSOG shall be taken into account.

The geographical scope of the assistance extends to Albania, Bosnia and Herzegovina, former Yugoslav Republic of Macedonia, Kosovo\*<sup>1</sup>, Moldova, Montenegro, Serbia and Ukraine. Nevertheless, projects may be also proposed to include EU Member States (MS) in case of interconnections between a Contracting Party and an EU MS.

### 1.2 OBJECTIVES

The objective of the technical support is as follows:

1. To develop the electricity and gas market models for the Energy Community Contracting Parties and use these in the assessment of PECI AND PMI candidates;

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\*This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

2. To develop a multi criteria assessment methodology, using also the ENTSOE and ENTSOE methodology for cost benefit analysis where applicable;
3. To assess the candidate projects for electricity and gas infrastructure, as well as for smart grids, in order to be able to identify those which bring the largest benefits for the Energy Community.

### **1.3 OUTPUTS AND DELIVERABLES**

The main output is the final study and list of projects eligible for PECEI and Project of Mutual Interest (PMI) status, as well as detailed evaluation of all project submitted for the call. The final list of PECEIs and Projects of Mutual Interest will not provide a ranking of projects, rather list those projects which are eligible for the designation.

The first output is this Inception Report that incorporates the final questionnaires.

According to the planned work schedule we will check the eligibility of the projects and verify the input data (Task 2) and present

the list of projects eligible for evaluation to the Groups (tentative date for submission: 20.03.2016.)

- an interim report (by 20.04.2016.) containing:
  - the list of submitted projects,
  - the result of the eligibility checks and data verification process,
  - the description of the CBA methodology
  - indicators and weights used for the multi-criteria assessment
- a draft final report (by 15.07.2016.) containing:
  - description of the CBA methodology
  - indicators and weights used for the multi-criteria assessment
  - results of the CBA and multi-criteria assessment
- A final report (by 18.09.2016.), which incorporates the contents of the draft final report and reflects to the comments and feedback received by Energy Community Secretariat and project promoters.

## **2 METHODOLOGY**

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### **2.1 OVERVIEW OF TASKS**

As described in the tender document, the tasks encompasses:

- *Task 1: Prepare the questionnaires for the submission of candidate PECEI AND PMIs and screen submissions for eligibility;*
- *Task 2: Verify the accuracy and completeness of information supplied by project promoters in their submissions and request the additional information of clarification where needed, in order to perform the assessment;*
- *Task 3: Develop or adapt an existing market model for electricity and respectively for gas for the Energy Community Contracting Parties, using as a basis, the scenarios proposed in the ENTSOE and ENTSO-G cost benefit scenarios*

- *Task 4: Develop or adapt an existing electricity network model for the assessment of PECE AND PMI candidates in electricity infrastructure;*
- *Task 5: Develop a multi criteria methodology, based on the provisions of the EU Regulation 347/2013 as adopted by the Ministerial Decision D/2015/09/MC-EnC, and in line with the one used for PECE AND PMI selection.*
- *Task 6: Propose a methodology for the evaluation of projects in the oil infrastructure and in smart grids and assess the candidate projects in this category.*
- *The Consultant will assess the eligible PECE AND PMI candidates by applying the multi criteria methodology, and will propose the preliminary list in electricity, and respectively in gas to the Secretariat and the two Groups. The assessment of oil and smart grid projects will be based on a separate methodology developed under Task 6.*

## **2.2 TASK 1: PREPARING THE QUESTIONNAIRES**

Separate questionnaires were drafted for electricity transmission, natural gas transmission, natural gas storage, LNG, oil and smart grid projects.

Questionnaires have been drafted and submitted to Energy Community Secretariat in late 2015 and early 2016. The Consortium received ample and useful feedback on the content of the questionnaires via email and a phone conference on 12.01.2016. The finalised questionnaires are included in Annex 1 of this report. It is envisaged that the call will be open in the second half of January, project promoters are expected to submit their information by 15.02.2016. Projects submitted after the deadline will not be evaluated.

A preliminary screening of PECE AND PMIs for eligibility is conducted based on the Regulation 347/2013 (EU) and its implementation by Energy Community in Ministerial Council Decision D/2015/09/MC-EnC. Screening covers the following eligibility checks, as indicated in the implementation of Regulation 347/2013 (Article 4 and Annex IV).

For proposed investment projects to be considered as PECE AND PMIs the following two eligibility criteria must be met:

1. The potential overall benefits of the project assessed according to the respective criteria set out in Article 4 of Regulation 347/2013 outweigh its costs
2. The project meets any of the following criteria:
  - a. Involves at least two Contracting Parties or a Contracting Party and a Member State by directly crossing the border of two or more Contracting Parties, or of one Contracting Party and one or more Member States
  - b. Is located in the territory of one contracting party and has significant cross-border impact as set out below:

**For electricity transmission**, the project should increase the grid transfer capacity, or the capacity available for commercial flows with one or several Contracting Parties and/or Member States or at any other relevant cross-section of the same transmission corridor having the effect of increasing this cross-border grid transfer capacity, by at least 500 MW compared to the situation without commissioning of the project.

**For gas transmission,** the project concerns investment in reverse flow capacities or changes the capability to transmit gas across the borders of Contracting Parties and/or Member States concerned by at least 10% compared to the situation prior to the commissioning of the project

**For gas storage and LNG,** the project aims at supplying directly or indirectly at least two Contracting Parties and/or one or more Member States or at fulfilling infrastructure standard (N-1 rule) at regional level

Having discussed the provisions of the Decision of the Ministerial Council adopting EC Regulation 349/2013 the EnC Secretariat and the Commission agreed in the phone conference 12.01.2106 that: Being a PCI on a 2015 list is not an eligibility criteria for the submission of projects. All submitted projects that qualify for the above mentioned criteria will be evaluated. At a later stage the PCI status will be decisive whether the project can be a candidate on the PECEI or on the Mutual Interest project list.

### **2.3 TASK 2: VERIFICATION OF PROJECT DATA**

For all projects that have been assessed as eligible in task 1 a verification process on the provided data and information will be conducted, which includes the following three steps:

1. collection of the information on projects
2. verification of the collected information
  - a. based on ACER data
  - b. if needed: consultation with project promoter
3. preparation of the unified list of projects data to be used for the later tasks.

Data collection on projects will be conducted on behalf of the Energy Community Secretariat. Questionnaires will be collected in a common Dropbox folder or other network folder solution suggested by Energy Community Secretariat, shared with project members who will sign an agreement of confidentiality. Contents of the folder will be deleted upon the completion of the project. To ensure confidentiality and data handling procedures, an Energy Community Secretariat member will be added to the folder and may monitor the access of project members. In case of few missing data additional information will be requested directly by the consultant from the project promoters. In case of generally missing input data a second questionnaire sent by the Groups might be necessary.

Information content of questionnaires will be collected in an Excel table, which will be the basis of analysis and data verification. Due to the huge heterogeneity among the type of projects, different data tables will be used for electricity transmission, gas transmission, gas storage, LNG, smart grid and oil projects.

Verification of the provided data and information is performed in two consecutive steps:

- evaluation of technical reasons for given infrastructure projects
- benchmarking of costs to international standards to verify the financial data.

In the verification step, the CAPEX cost of the project will be consulted and cross-checked with the ACER data<sup>2,3</sup> (namely if the project indexed unit investment cost falls in the interquartile range between the first and third quartile). Furthermore, the expert knowledge and experience of the consortium from previous projects conducted within the region to benchmark, including the previous PECE ranking, will be utilized for data validation. If the discrepancy of ACER database and the project CAPEX is deemed excessive, project promoter will be consulted. CAPEX data will only be updated if projects promoters re-evaluate their estimation, i.e. no unilateral correction of CAPEX is done.

Concerning the technical aspects of the projects the ENTSOE and ENTSOG TYNDPs provide information on project expected impacts (e.g. RES integration, network impacts). The proposed project figures on these aspects will also be cross-checked with these data.

Throughout the verification process the project promoters will have the possibility to give reasons for their projects being out of the benchmark range in terms of financing if necessary.

Finally, the verified dataset will be used as a basis for analysis and serve as modelling inputs. Projects will be evaluated compared to a common reference scenario.

**2.4 TASK 3: MARKET MODELLING IN ELECTRICITY AND GAS AND COST BENEFIT ANALYSIS**  
This chapter describes the core activity of the project assessment: the market modelling for gas and for electricity. By using the two sectoral market models of REKK the social benefits that the candidate PECE AND PMI project can generate in the Energy Community can be measured and monetized. The monetized benefits and the cost of investment will allow for a methodologically sound cost benefit analysis.

### ***COST BENEFIT ANALYSIS FOR THE ELECTRICITY PROJECTS***

The project team will follow the ENTSOE CBA guideline (February 2015) for its electricity market infrastructure assessment as close as data availability will allow for it. The main tool for the assessment will be the REKK electricity market model (European Electricity Market Model-EEMM), which was already used in the previous PECE assessment as well as other projects assessing the economic viability of infrastructure projects. For EEMM model references see Annex 1 of this proposal, while a concise model description can be found in Annex 2 of the proposal. This model will be applied to assess the economic impacts of the individual electricity infrastructure elements that will be proposed in the PECE AND PMI evaluation process. The most important information source for this assessment will be the data gathered through the questionnaires received from the project promoters which will be verified and cross-checked in Tasks 1 and 2.

The first step in the model based assessment is determining the reference scenario up to 2030. This will not only cover the whole EnC region, but the whole European electricity system as well, as proposed infrastructure elements will have significant spill over effect outside the regional boundaries.

#### **Reference Scenario Set-up**

The reference scenario will include the latest EU visions for future European electricity sector development (e.g. the EU Impacts assessments, as well as the Energy Community obligations:

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<sup>2</sup> [Report on Unit Investment Cost Indicators and Corresponding Reference Values for Gas Infrastructure](#)

<sup>3</sup> [Report on Unit Investment Cost Indicators and Corresponding Reference Values for Electricity Infrastructure](#)



e.g. RE and EE targets, the 2050 Roadmaps, and ENTSOE TYNDP). Relevant economic assumptions (fuel cost developments, carbon pricing) and technical parameters (efficiency and availability rates) will follow the latest available EU and global forecasts. The demand pattern and generation portfolio data will also be updated with the latest available databases and forecasts. Special attention will be granted to the EnC region, where current energy policy documents (Energy Strategies, NREAPs available for Members) and other planning documents will contribute to the reference scenario of the region. The recently finalised SLED (Support for Low Emission Development in South Eastern Europe) project on the region has equipped REKK with the most recent available data concerning the region's electricity generation and network developments. The trade flow patterns, electricity production by unit and the resulting baseload and peak load prices will be endogenously determined by the model for both the reference scenario and for the assessment cases.

A specific question concerns the regional electricity infrastructure developments to be assumed in the Reference scenario. As numerous infrastructure development projects are expected to be proposed in the assessment, the reference scenario will be set up without them in order to allow the modelling exercise to compare scenarios in the region with and without the projects. This assumption can be altered if the EnC Secretariat and the electricity Group wish to set up the reference case differently.

Once the reference scenario is set up, the project team will evaluate the impact of various infrastructure elements individually by introducing them into the EEMM model, consistent with the verified information from the questionnaires (referred to from this point on as individual assessment cases or IACs). The PINT methodology (Put In oNe at Time) will be used to assess the individual impact of the projects or project clusters if they are complementary. This complementarity is to be judged in the verification phase.

### **Assessed benefit categories**

Based on the IACs the following benefit categories will be assessed (B1-B7). RES integration (B3), Technical resilience and system safety values (B6) and Robustness/Flexibility (B7) are evaluated within the multi criteria assessment. Other benefits are monetized by modelling.

### **B1. Security of Supply**

In case quantified Expected Energy Not Supplied (EENS) values are provided by the project promoters, than we can monetise the impact by using Value of Loss Load (VOLL) estimations for the region. This step requires a monetary value on the unit of lost load. Ideally, the value of a unit of lost load should be based on a willingness to pay estimation for customers to avoid the loss of a unit of load. Such data is missing for the Contracting Parties, and the Consultant will carry out a survey of literature and establish the VOLL for the region.

If project promoters have no estimation on the EENS but have an estimation of a unit of lost load, VOLL can be estimated by applying benchmarks on the probability of failure rates on the lines (together with average repair times). If these estimations are not available, the TYNDP qualitative information could be used to measure qualitatively the SoS effects of the individual lines.

### **B2. Socio-economic welfare**

The Total surplus approach will be used to measure the socio-economic welfare of the transmission lines rather than the Generation cost approach (see ENTSOE CBA methodology). This method captures the overall welfare effect, making it a more holistic way

to calculate the total benefits of the transmission lines to the consumers, producers and the TSO. The EEMM model measures all of these effects on the various economic actors (consumer benefits, producer benefits and TSO rents), meaning that they will form a monetised impact category in all assessed cases.

Surpluses will be calculated across all EU member states, however the geographical scope of the total benefit calculation will only include countries which the EnC Secretariat and the project steering committee require.

### **B3. RES Integration**

RES integration effects are an important part of new infrastructure elements, as greater connection and trade opportunities can allow for higher amount of RES to be injected in the electricity system. The higher RES penetration facilitated by the infrastructure development has an important impact on the sector since most RES technologies will reduce wholesale prices, thus increasing social welfare. There is however a methodological problem in that only the additional RES generation directly attributable to the new line should be accounted for. In addition, new RES would require a certain subsidy level, usually paid by consumers. In order to avoid this potential methodological shortfall, we will assess the RES integration impacts in the Multiple Criteria Assessment.

### **B4. Variation in Losses**

New transmission line elements could either increase or reduce losses in an electricity system depending on certain factors. The new line could be better performing or improve overall load flow patterns. The potential for losses could also increase if the new line elicits additional trade flow (although even in this case unit losses would also reduce). In order to deliver the required electricity for the consumers, losses must be covered by the power plant generation. Therefore the reduction of losses would benefit the system and producer by avoiding the extra generation required to cover the losses. This variation will be monetised by the EEMM model (with increasing or decreasing electricity consumption compared to the reference scenario) and added to the quantified impacts of the evaluation. The quantity changes in the loss values will be requested from the project promoters through the questionnaires.

### **B5. Variation of CO2 emissions**

In the scenarios, the CO2 prices from the latest EU impact assessment estimates will be used (Impact Assessment on energy and climate policy up to 2030, SWD (2014) 15) in order to calculate the monetised impacts of carbon emissions. As generators in the EnC member states presently do not pay an imbedded carbon price for their emissions, it will be applied only from a future standpoint in the modelling. This approach will be agreed between the EnC Secretariat and the PSC during the project meetings, but generally a target year is added (e.g. 2020 or 2025) from when the point at which the carbon price is applied to EnC Contracting Parties' producers.

The economic impacts are already included in the socio-economic welfare category (B2), so the monetised impacts should not be calculated separately in order to avoid double counting. But according to the ENTSOE methodology, the quantified impacts (in kt of CO2 variation) will be reported. In addition, in order to reflect the possibly of a higher carbon value for society than the actual ETS price, a sensitivity analysis for a higher carbon value will be carried out.

### **B6. Technical resilience and system safety values and B7. Robustness/Flexibility**

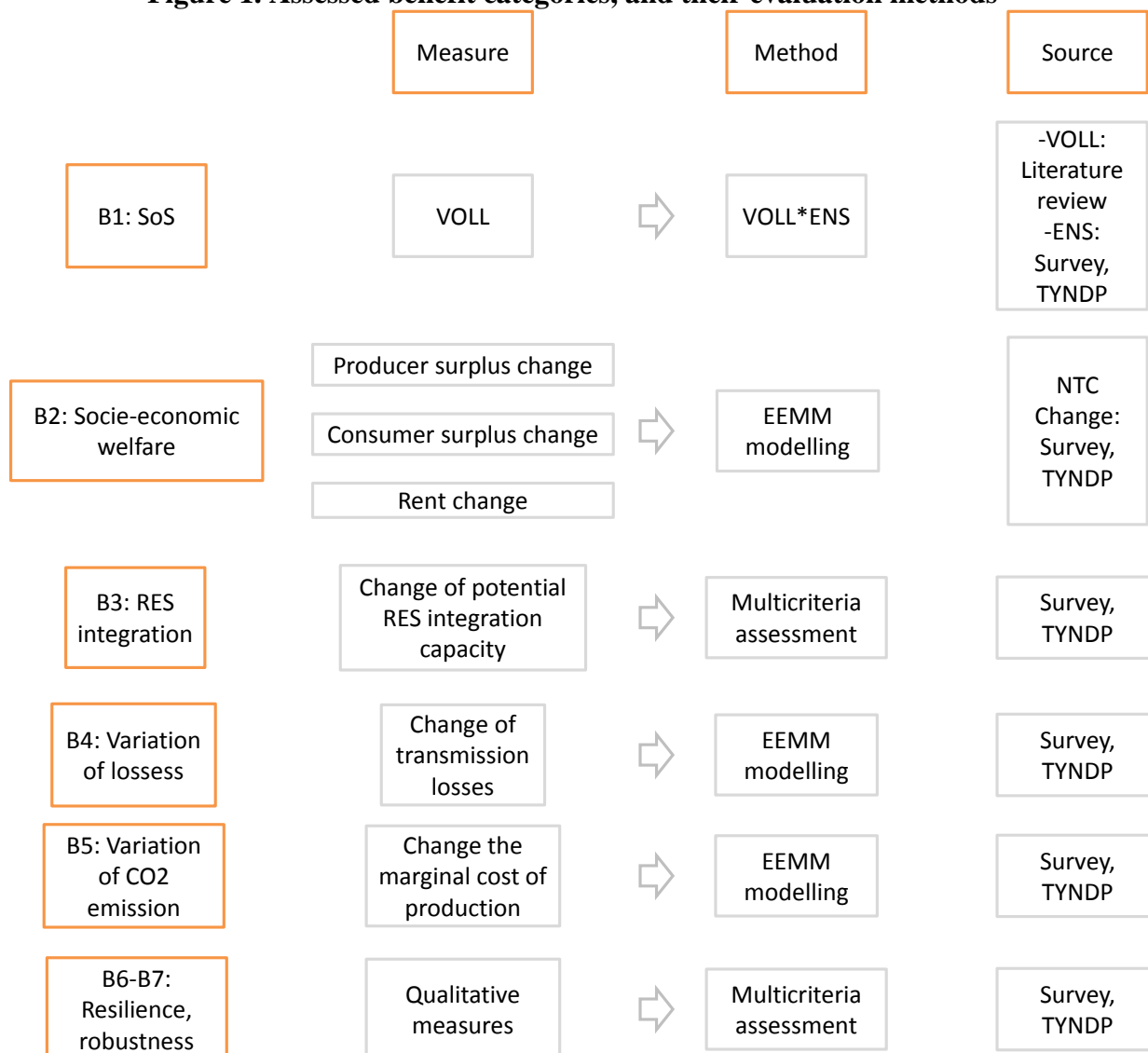
Project promoters will be asked in the questionnaire if they have assessed the Technical resilience and Robustness features of their proposed projects. Generally these features are assessed qualitatively or in various sensitivity cases (e.g. in extreme scenarios or in changing trade flow pattern scenarios) so their evaluations are rarely quantified. The ability of the proposed lines to contribute to the adequate operation of the transmission system in the extreme or significantly changed situation will only be assessed in the multi-criteria assessment, based on the provisions of data by project promoters.

### **NPV calculations**

Once the previously listed benefit categories are quantified and the cost elements are verified, they will serve as a basis for the Net Present Value (NPV) calculation of the costs and benefits of the proposed projects. Benefit categories B1-B5 will be monetised and included in the economic calculation, while B6-B7 categories will only be assessed qualitatively in the multiple-criteria assessment. The cost-benefit analysis seeks to select the projects with the highest NPV, where the NPV is the sum of the discounted incremental costs and benefits over the project's life time:

1. A project appraisal will aim to demonstrate that the chosen option maximises the net economic benefits, i.e. the option maximises the difference of the present values of the benefits and costs, compared with alternative options in a majority of pre-defined scenarios. Benefits and costs in this context should be interpreted as the incremental benefits and costs in providing that option.
2. Where a project option consists of more than one individual sub-project, the costs of the project include the costs of all of those sub-projects. Further, any project option that is formed by a combination of sub-projects should to be compared against comparable alternative project options, which may themselves be formed by a combination of sub-projects.

**Figure 1. Assessed benefit categories, and their evaluation methods**



We will apply dynamic investment appraisal techniques and estimate Costs and Benefits over the expected lifetime of the project, discounting future benefits and costs to the present value by applying a pre-determined social discount rate. According to the ENTSOE recommendation we propose to use a 4% social discount rate. We will calculate a Benefit/Cost ratio and propose projects with a B/C ratio below 1 to exclude from further analysis. The remaining projects with a higher than 1 B/C ratio will be assigned a net social benefit figure (present value, Euro terms).

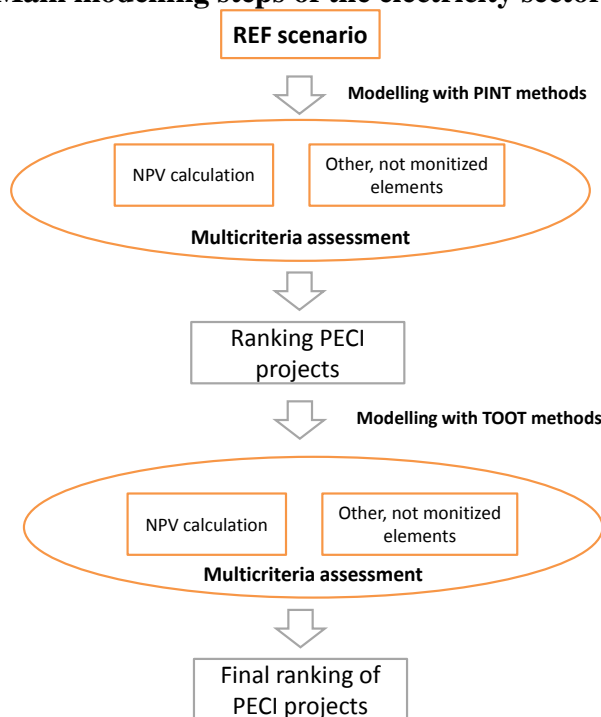
The time horizon of the NPV calculation will be the estimated lifetime of the infrastructure elements, which is 40 years. As the modelling covers the next 15 years (up till 2030), we will than calculate the residual values of the projects and include this in this residual value in the project evaluation.

**TOOT assessment for robustness check**

In order to check the robustness of the proposed list of infrastructure projects and also to check for the interaction between the various infrastructure elements, we will also apply the TOOT (Take Out One at Time) method for the selected list of projects, where the number of selected projects depends on the decision of the EnC and on the number of proposed projects.

By using this approach, we will check the robustness of the project rankings and whether the realisation of additional simultaneous projects could distort and change the ranking of the proposed project list.

**Figure 2. Main modelling steps of the electricity sector assessment**



### Sensitivity assessments

We will also carry out a sensitivity assessment on the most important scenario drivers (e.g. assumed carbon value, demand, gas price) in order to check if the ranking of the projects are robust in relation to these factors. This assessment will demonstrate how reliable the selection of the PEI AND PMI projects are according to the overall economic and technical factors.

### ***COST BENEFIT ANALYSIS FOR THE GAS PROJECTS***

Both European Commission<sup>4</sup> and ACER<sup>5</sup> have identified serious limitations of ENTSOG modelling methodology. One of the main critics is that ENTSOG methodology focuses on quantifying merely project benefits and not costs, therefore it is not able to monetize TSO revenues nor to take into account the effect of tariffs. Another drawback is that prices are not modelled but are taken from past data and are corrected according to different supply scenarios. It is also worth to mention that separate computation of project-related benefits to the different stakeholder groups (consumers, producers, shippers, TSOs) is not possible with the use of ENTSOG model.

Considering the abovementioned limitations of ENTSOG modelling, an alternative model, the European Gas Market Model (EGMM) developed by REKK will be applied for the CBA

<sup>4</sup> [Study to support the definition of a CBA methodology for gas - Frontier Economics, 2014 June](#)

<sup>5</sup> [ACER Opinion No 11/2015 on the Draft Ten-Year Network Development Plan 2015 submitted by ENTSOG.](#)

assessment of gas infrastructure PECCI AND PMI candidate projects, however the guidelines of ENTSO-G CBA methodology will be followed as far as it is possible. The former version of this model (Danube Region Gas Market Model, DRGMM) was applied in the previous PECCI assessment. In the extended EGMM model the fundamentals are the same, but the coverage was extended to 35 European countries, covering the EU (except for Malta and Cyprus) and the Energy Community endogenously, and LNG markets are more accurately represented. The current version of the model was already applied in numerous projects selecting the most important infrastructure in Europe. For the references on the EGMM model see Annex 3 of this proposal, while a detailed model description can be found in Annex 2.

Contrary to ENTOSOG model EGMM is able to handle the abovementioned limitations. As the wholesale gas prices are modelled and not exogenously given, a more accurate CBA could be performed. As actual flows are reflecting infrastructure capacities, costs and market prices, capacity utilization of new infrastructure and resulting welfare changes could be better forecasted. With REKK modelling welfare change can be separately calculated for all market participants which leads to a methodologically much stronger CBA.

### **Reference Scenario Set-up**

The first step in the model based assessment is the setting up of reference scenarios for the threshold years. These reference scenarios will be set up together with Energy Community Secretariat. In line with the guidelines of Regulation 347/2013 as adopted by the Energy Community the modelled years would be 2015/16, 2020, 2025, 2030 and 2035. After 2035 the welfare change quantified for 2035 will be extrapolated for the projects' lifetime (30 years).

In case of demand, production and infrastructure input data we will lean on TYNDP forecasts, and correct them where it is necessary. One of the most important questions is the infrastructure developments to be assumed in the reference scenario. We would suggest the low infrastructure scenario of ENTOSOG which includes existing infrastructures plus infrastructure projects having a Final Investment Decision status.

Having the reference scenario set, the impact of submitted infrastructure elements will be evaluated individually or by project clusters if some projects complement to each other.

After completion of selecting process beyond the individual evaluation of projects, the overall welfare effect of selected projects will also be quantified.

### **Assessed benefit categories**

According to the guidelines on CBA methodology the following factors have to be taken into account:

1. Contribution to market integration and price convergence
2. Security of gas supply
3. Contribution to enhanced competition
4. Sustainability which includes contribution to reduce emission (CO<sub>2</sub> savings)

Based on modelling results economic benefits related to 1.,2. and 4. criteria can be quantified.

### **Socio-economic welfare**

The changes of socio-economic welfare are estimated with the net benefits (benefits minus cost) that the individual projects (or project clusters) can bring to the analysed Region (to be defined together with EnC Secretariat). The cost data will be provided in the questionnaires.

The socio-economic benefits will be estimated and monetized through the project's impact on market convergence and price changes, improvement of security of supply and the reduction of CO<sub>2</sub> emissions.

Total socio-economic welfare for a modelled period (year) is calculated as the sum of welfare change of all market participants:

1. Consumer surplus [to consumers]
2. Producer surplus (or short-run profit, excluding fixed costs) [to producers]
3. Profit on long-term take-or-pay contracts [to importers]
4. Congestion revenue on cross-border spot trading [to TSOs]
5. Cross-border transportation profit (excluding fixed costs) [to TSOs]
6. Storage operation profit (excluding fixed costs) [to SSOs]
7. Profit on inter-temporal arbitrage via gas storage [to traders]
8. Profit of LNG operators [to LNG operators]

These welfare measures for each stakeholder are equally weighted.

#### *Security of supply*

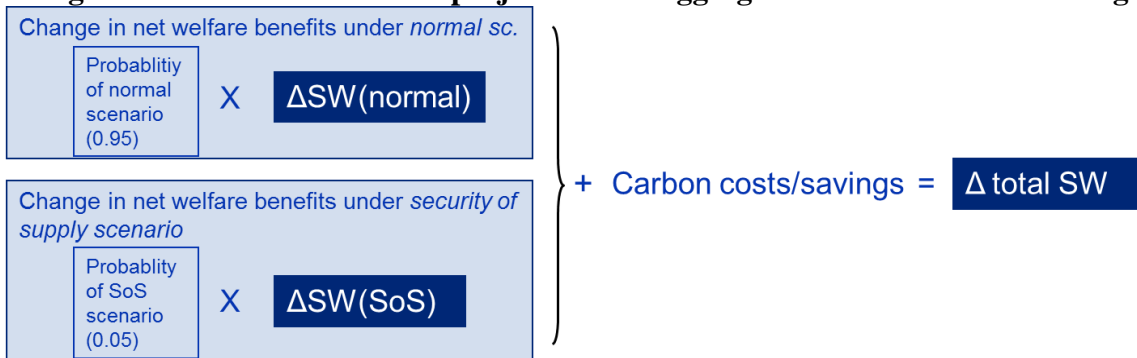
Security of supply related benefits of a project will be measured by the change in economic welfare due to the implementation of the project in the case of a gas supply disturbance. A gas supply disturbance is assessed as a 100% gas supply disruption via the largest interconnector entry point to the region in January for a given year. The economic welfare change due to the realization of the proposed infrastructure is calculated as the difference between the welfare under disturbance conditions with and without the project.

To calculate the project related aggregate change in socio-economic welfare for a given year, we first calculate the weighted sum of project related welfare changes under normal and disturbance conditions. Weights are the assumed probabilities for normal and disturbance scenarios to occur (95% versus 5%).

#### *Reduction in CO<sub>2</sub> Emissions*

Within the CBA the sustainability benefits are estimated by the impact of projects in changing greenhouse gas emissions. In the case of gas infrastructure projects, the project related environmental benefit is estimated as multiplying the corresponding change in the countries' CO<sub>2</sub> emissions (assuming that change in gas demand substitute an average CO<sub>2</sub> intensity in energy use) with an exogenous carbon value.

**3. Figure Calculation method of project related aggregate economic welfare change**



For each project (or project cluster) we carry out 10 model runs: for the five modelled years (2015/16, 2020, 2025, 2030, 2035) with the new infrastructure in place under normal conditions and under security of supply assumptions. The welfare change of the given year under normal and SOS conditions will be weighted and added to the CO2 quote cost saving change that will be also calculated based on model output.

As a next step the NPV will be calculated for the lifetime of the project. In the context of an economic CBA the economic NPV discounts the incremental costs and benefits of an infrastructure project arising to all groups of stakeholders back to their present values applying a 4% social discount rate.

**Sensitivity assessments**

As a robustness check of the ranking of the projects, a sensitivity analysis will be carried out on the most important scenario drivers. In line with ENTSOG scenarios we analyse some reasonable combinations of the most important modelling input data (e.g. demand scenarios or assumed price for outside markets, mainly the global LNG market).

**2.5 TASK 4: NETWORK MODELLING**

Since there is expected to be a high number of proposed electricity transmission projects to be assessed within this project (e.g. in the range of over 30 projects based on the first PECCI assessment), a full-scale ENTISOE compatible network modelling for all individual project proposals will not be possible within the limited budget of this project. Due to this resource constraint, a more aggregated level network assessment will be carried out. For this assessment part, the consortia will adapt an existing network model for the EnC region and will update the database of the model by the ENTISOE or the SECI<sup>6</sup> project database if one of these databases will be available for us. For this reason, we would require the help of the EnC Secretariat to receive the ENTISOE project database for the use of the PECCI AND PMI assessment, in order to reflect the most up-to-date information on the electricity network of the region.

The network modelling will follow an iterative approach:

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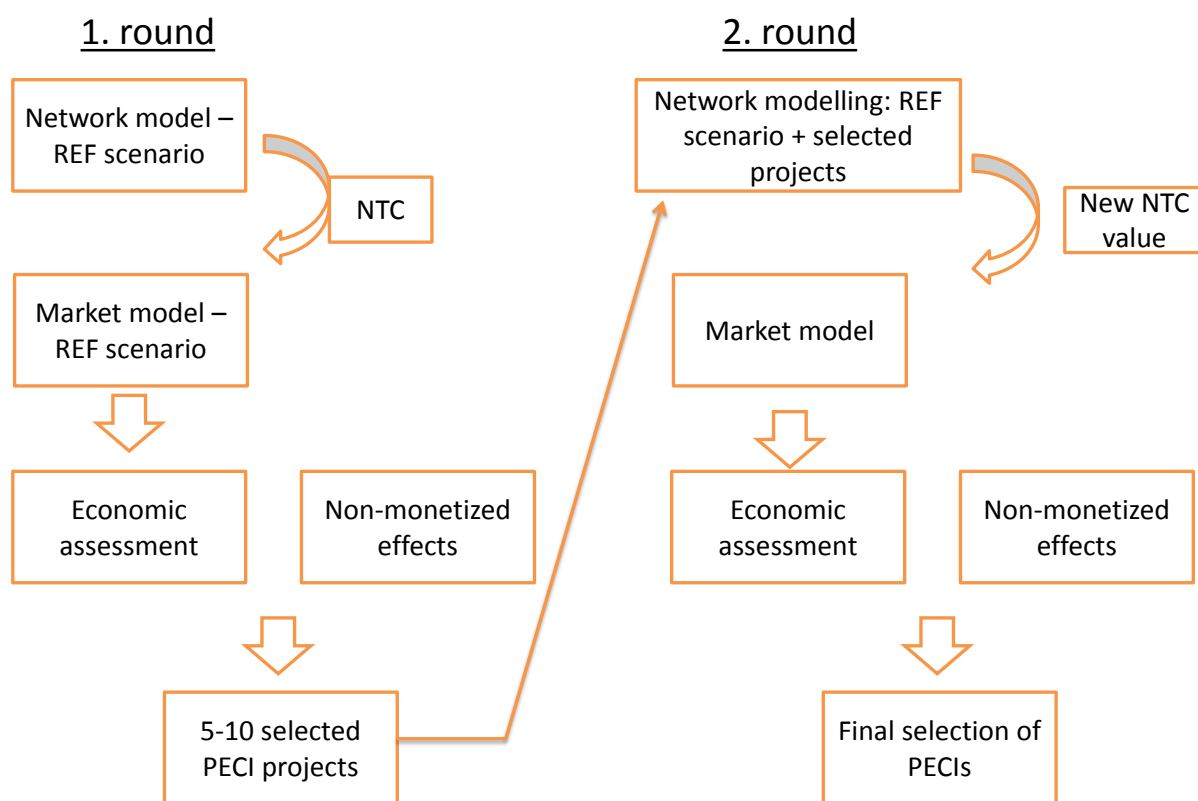
<sup>6</sup> Southeast Europe Cooperation Initiative Transmission System Planning Project (SECI TSP): regularly updates regional transmission system model and builds regional data base on South East Europe



- The first step (in Task 1 and 2) will be the cross-checking and screening of the information received from project promoters through a questionnaire survey. The information received on the network (NTC changes, loss variation, EENS estimates) will be cross-checked with the available ENTSOE benchmarks (e.g. ENTSOE TYNDP) and differences will be settled with project promoters.
- Once the data set is finalised, it will serve as input for the network modelling, and the output of the network modelling will be used in the European Electricity Market Model (EEMM) as well. Then, based on the cost-benefit assessment of the individual projects, the proposed projects will be ranked.
- A limited number of proposed PECEI projects will be selected from this ranking (depending on EnC requirements and the number of promoted projects), and this grouping will provide the basis for the modelling of the aggregated network impact. The network model will provide two main pieces of information at this stage. First, it will allow for the establishment of a reference scenario and provide base NTC values to the economic model (EEMM) in the previous step. Second, the network model will run a new scenario where the proposed number of PECEI projects will be included. This will reveal new NTC and loss variation values.
- The new NTC figures and loss variation results will be used in the subsequent economic market model runs to see whether the resulting list of projects are robust under these parameters. A joint assessment of all proposed projects will also be carried out with the economic model (TOOT approach). This is the manner in which the PECEI list will be finalised; incorporating the joint network impacts of the proposed projects alongside checks for the robustness on the project results.

This iterative method on the aggregated project ‘package’ is proposed for two reasons. First, a full network modelling of an infrastructure project is very costly, so carrying out the assessment on various projects would not fit into the proposed budget of the call. This is the reason to work with a ‘higher’ level network model in the project. Second, this is reflective of the reality that individual project assessments generally do not consider the impacts of other projects to be realised in the same region. The REKK assessment will take this into consideration by calculating network and economic impacts of the proposed projects on the group level.

**Figure 4. Integration of the network and market modelling**



## 2.6 TASK 5: MULTI-CRITERIA ASSESSMENT

Since not all possible costs and benefits can be quantified and monetised – which is a requirement for an inclusion in the CBA – additional criteria will be proposed and agreed with the Groups of the Energy Community (responsible for the identification and assessment of Projects of Energy Community Interest) that will be assessed outside the CBA. The selection of these additional criteria as well as the parameters looked at within the electricity and gas market models will be based on Regulation 347/2013 as adopted by the Energy Community and the approach applied for the identification of EU Projects of Common Interest (PCIs), the CBA methodologies developed by ENTSOE for electricity and ENTSG for gas as well as the feedback provided by ACER, national regulatory authorities, the European Commission and other energy sector stakeholders on these methodologies. In addition, also our own experience from previous economic assessments of energy infrastructure projects (including the experience of the consortium gained within the previous project (in 2012/2013) for the identification of Projects of Energy Community Interest) and the specifics of the energy sectors in the Contracting Parties of the Energy Community will be taken into account.

As additional criteria evaluated outside the electricity and gas market models, but within the multi-criteria assessment we propose to include the impact of each project or project cluster on the enhancement of competition, system adequacy (resilience) and robustness/operational flexibility, as well as the progress in implementation of each investment project (maturity). For electricity projects we propose to also evaluate the benefits of a project from improvements in energy efficiency (measured through the reduction of thermal losses). For natural gas projects we propose to assess also the impact of a project on import route diversification as additional criterion within the multi-criteria assessment. As described

earlier, impacts on market integration/price convergence, security of supply and CO<sub>2</sub> emissions are already included within the electricity and gas modelling. ENTSOG list a number of further criteria in their CBA methodology, such as the various indicators for supply source dependence and diversification; these can however be subsumed either under the criteria of market convergence and security of supply assessed within the gas market model or under the criteria of enhancement of competition, system adequacy (resilience), robustness/operational flexibility and import route diversification assessed within the multi-criteria assessment. Furthermore the gas model will also take into account the impacts on gas storage, inter-seasonal arbitrage and long-term contracts. The final set of criteria to be looked at within the modelling as well as of additional criteria evaluated within the multi-criteria assessment will be discussed and jointly agreed on with the Groups.

In order to measure the fulfilment of each criterion by each investment project within the multi-criteria assessment, specific indicators will be defined for each criterion. We propose to allocate to the indicators scores reflecting the ability of each project to fulfil the respective criterion. Accordingly we would attribute minimal points (e.g. one) to a project when the degree of fulfilment is low and maximal points when the degree of fulfilment is high (e.g. five). Scores between the minimum and the maximum values would then be allocated by using linear interpolation.

For the overall integration of the CBA results and the additional criteria weights will be set for each criterion. The initial weights of each criterion will be based on a pairwise comparison of the relative importance of a criterion against any other criterion by the experts of the consortium taking into account experience from previous similar assessments of energy infrastructure projects as well as other studies and methodologies proposed and published on European level. The proposed weights for each criterion will be presented to the Groups, which will have to agree on their final values.

Each investment project will then be assessed (scored) according to the fulfilment of each criterion by each project or project cluster. By multiplying the score for each criterion with the weight of each criterion a total score will then be calculated for each project or project cluster.

In the final step a ranking of all eligible projects will be proposed according to the calculated scores of each project or project cluster. The ranking will be conducted separately for the electricity infrastructure, gas infrastructure, oil infrastructure and smart grid projects.

## **2.7 TASK 6: METHODOLOGY FOR THE EVALUATION OF PROJECTS IN THE OIL INFRASTRUCTURE AND IN SMART GRIDS**

### ***Oil infrastructure projects***

The criteria for evaluation of oil project is set out in the Regulation 347/2013 as adopted by the Energy Community as:

- (a) Security of oil supply shall be measured by assessing the additional value of the new capacity offered by a project for the short and long-term resilience of the system and the remaining flexibility of the system to cope with supply disruptions under various scenarios.

(b) Interoperability shall be measured by assessing to what extent the project improves the operation of the oil network, in particular by providing the possibility of reverse flows.

(c) Efficient and sustainable use of resources shall be measured by assessing the extent to which the project makes use of already existing infrastructure and contributes to minimising environmental and climate change burden and risks.

However, a thorough quantitative assessment would mean setting up a reference scenario and an oil market model for the affected countries. We expect few oil projects to apply, which could be judged on a case-by-case manner. Our expertise from the previous study DNV KEMA-EIHP-REKK study *Development and Application of a Methodology to Identify Projects of Energy Community Interest* gives a sound theoretical basis.

### ***Smart grid projects***

EU Regulation 347/2013 as adopted by the Energy Community provides a detailed set of eligibility criteria for smart grid projects, limiting eligible smart grid projects among others to large projects (at least 50,000 users) at high-voltage and medium-voltage level. It furthermore provides a set of criteria, based on which the net benefit of smart grid projects shall be assessed. These criteria include among others the contribution of the project to improvements in

- energy efficiency (measured via reduced network losses, reductions in electricity consumption and reductions of emissions)
- the cost-efficiency of network planning, network investments and network operation
- security and quality of supply
- the integration of distributed (renewable) generators, prosumers and other network users with new technical requirements
- involvement of demand response and the provision of new customer services

Assessing the economic impact of smart grid projects would require to compare a business as usual situation within the specific network segment of specific network operators in specific countries where the smart grid project is implemented with the situation to be expected after the implementation. This would require very detailed information on the specific network characteristics within a specific network within a specific country (including details on the present and future patterns of feed-in and load, the present and expected future levels of reliability, power quality and network losses, the existing network infrastructure and assets and the expected future shares of (distributed) generation from renewables, prosumers and auto-producers, demand response, electric vehicles, etc.) as well as detailed consideration of the specific regulatory framework applying in that country. Given these challenges, the expected small number of projects (if any) that would be able to fulfil the eligibility criteria and the limitations of the available budget, we therefore propose – similar to the assessment of oil infrastructure projects – to assess smart grid projects only qualitatively. This qualitative evaluation would involve a comparison of the proposed smart grid projects with each other as regards their cost levels and expected benefits in the above dimensions as well as with available information on other smart grid projects already implemented within other European countries and expert knowledge and internal data of the consortium gained through other more detailed assessments of smart grid projects.

### **3 ORGANISATION OF THE WORK**

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#### **3.1 COMMUNICATION**

Primary communication channel of the Consortium and Energy Community Secretariat is via phone/Skype and email. A phone/skype call is scheduled at least once every three weeks, or more frequently if required.

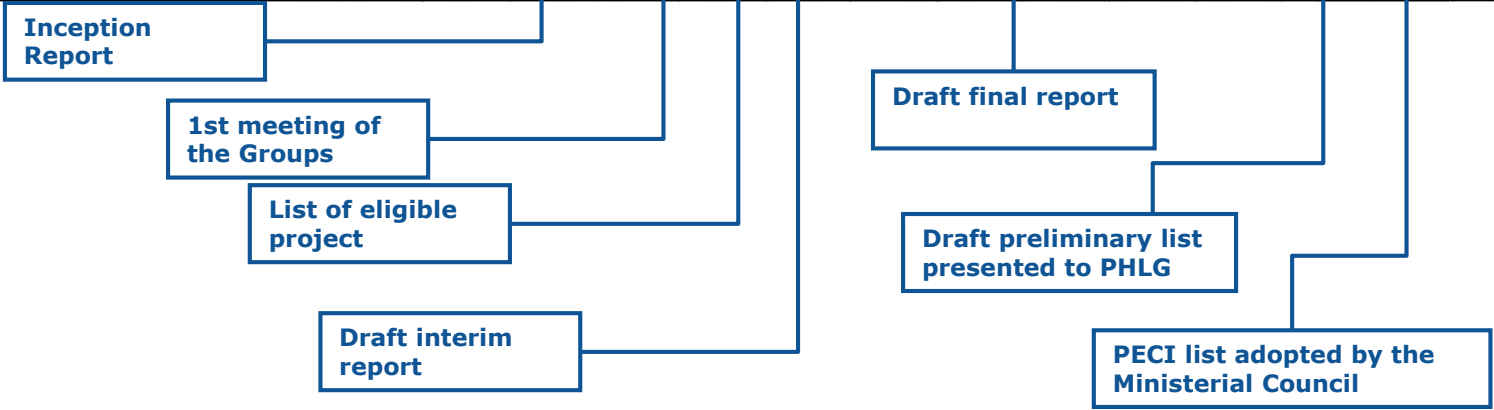
Contractors ensure that ENTSOE/G will be kept informed / consulted about key developments of the projects. ENTSOE/G is asked to delegate members to the two Groups.

Meetings will be organized in the premises of the Energy Community Secretariat in Vienna. The Consortium in concert with the Energy Community Secretariat envisaged four meetings:

- first meeting on 26.02.2016. in Vienna, where the Consortium will present:
  - the methodology applied for the CBA (lead by REKK) and multi-criteria (lead by DNV GL) assessment
  - modelling assumptions
- second meeting on 04.04.2016. in Vienna, where the Consortium will:
  - present the list of projects submitted and the results of the eligibility checks
- third meeting in late June or early July 2016 in Vienna, tentative date the week starting 27 June
  - modelling results and outcome of the evaluation will be presented
  - an optional second meeting can be scheduled, if it is required by participants
- fourth meeting to further discuss modelling results in the first week of September 2016 if needed

### 3.2 WORK PLAN

Task name	Start	Finish	Oct '15	Nov '15	Dec '15	Jan '16	Feb '16	Mar '16	Apr '16	May '16	Jun '16	Jul '16	Aug '16	Sep '16	Oct '16	Nov '16	Dec '16
Call for the consultant	20-Oct-15	23-Nov-15															
Sign the contract		18-Dec-15															
Inception report - questionnaires	10-Dec-15	10-Jan-16															
<b>Call for projects</b>	15-Jan-16	15-Feb-16															
1st meeting Establishment and meetings of the Groups	25-26.Feb.	27-28. Apr															
<b>Eligibility test</b>	17-Feb-16	19-Mar-16															
<b>Eligibility test</b> - Finalise eligible projects list		20-Mar-16															
2nd meeting		04-Apr-16															
Methodology+assessment+interim report	10-Dec-15	10-Apr-16															
Public consultations	01-Apr-16	30-Apr-16															
3rd meeting	27-Jun-16	01-Jul-16															
Final scoring and report	11-Apr-16	15-Jul-16															
<b>Assesment - preliminary evaluation</b> (CBA, KPI, oppinic	11-Jun-16	13-Sep-16															
4th meeting																	
Final report		18-Sep-16															
<b>Drawing up the preliminary list</b>	18-Sep-16	06-Oct-16															
<b>Drawing up the preliminary list</b> - meeting of the Groups		5-6. Oct.															
Adjustment of the evaluation (CP,MS, ECS and EC)	07-Oct-16	12-Oct-16															
Presentation of the Draft Final List to the PHLG		13-Oct-16															
The Energy Community List of PECl adopted by the MC		by 31.Dec															



## 4 ANNEX 1: QUESTIONNAIRES

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# Questionnaire for the welfare evaluation of Projects of Energy Community Interest (PECIs) and Projects of Mutual Interest (PMIs) based on the Regulation 347/2013 as adopted by the Energy Community

## Electricity interconnector projects

### 1 PROJECT IDENTIFICATION

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#### 1.1 NAME OF THE PROJECT

#### 1.2 WAS THE PROJECT INCLUDED IN ANY OF THE FOLLOWING LIST OF PCIS OR PECIS?

- 2013 PCI (please refer to questions 1.3 and 1.4)
- 2015 PCI (please refer to questions 1.5 and 1.6)
- 2013 PECEI (please refer to questions 1.7 and 1.8)
- None of the above (jump to question 1.9)

#### 1.3 UNIQUE PROJECT CODE NAME IN THE 2013 UNION LIST OF PCIS (IF APPLICABLE)<sup>7</sup>

#### 1.4 PROJECT NAME IN THE 2013 UNION LIST OF PCIS (IF APPLICABLE)<sup>8</sup>

#### 1.5 UNIQUE PROJECT CODE NAME IN THE 2015 UNION LIST OF PCIS (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique codename listed in the C(2015) 8052 final Annex of the regulation 347/2013

#### 1.6 PROJECT NAME IN THE 2015 UNION LIST OF PCIS (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique name listed in the C(2015) 8052 final Annex of the regulation 347/2013

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<sup>7</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

<sup>8</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

**1.7 UNIQUE PROJECT CODE NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)<sup>9</sup>**

**1.8 PROJECT NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)**

Please refer to the document at Energy Community website<sup>10</sup>

**1.9 NAME OF THE PROJECT PROMOTER**

Please submit the full legal name of the project promoter

**1.10 NAME OF THE SHAREHOLDERS OF THE UNDERTAKING IMPLEMENTING THE INVESTMENT PROJECT**

Please submit the full legal name of each undertaking, the percentage of its shareholding in the project and information on their main activities. In case one of the shareholders is an investment holding, please also provide information on the ultimate owner(s) of the investment holding.

Full legal name of shareholder	Shareholding (in %)	Main activities of shareholder	Ultimate owner of investment holding (if applicable)

**1.11 PROJECT WEBSITE ACCORDING TO ARTICLE 9(7) OF THE ADOPTED REGULATION**

**1.12 CODE OF THE PROJECT IN THE EU TYNDP (IF APPLICABLE)**

**1.13 HOSTING ENERGY COMMUNITY CONTRACTING PARTIES (WHERE THE PROJECT IS LOCATED)**

- Albania  
 Bosnia and Herzegovina  
 Serbia  
 Kosovo\*

<sup>9</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PEC\\_I](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PEC_I)

<sup>10</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PEC\\_I](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PEC_I)



- Montenegro
- FYR Macedonia
- Moldova
- Ukraine

\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

#### 1.14 HOSTING NEIGHBOURING EU MEMBER STATES (WHERE THE PROJECT IS LOCATED)

#### 1.15 OTHER HOSTING COUNTRIES (WHERE THE PROJECT IS LOCATED)

#### 1.16 IMPACTED ENERGY COMMUNITY CONTRACTING PARTIES

A country is considered impacted where the project is not located but where project's effects are significant

- Albania
- Bosnia and Herzegovina
- Serbia
- Kosovo\*
- Montenegro
- FYR Macedonia
- Moldova
- Ukraine

\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

#### 1.17 IMPACTED EU MEMBER STATES

A country is considered impacted where the project is not located but where project's effects are significant

- |                                    |   |                                   |   |
|------------------------------------|---|-----------------------------------|---|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia        |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia        |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece         |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia         |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands    |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Slovenia  | <input type="checkbox"/> Spain          | <input type="checkbox"/> Sweden   | <input type="checkbox"/> United Kingdom |

#### 1.18 OTHER IMPACTED COUNTRIES

A country is considered impacted where the project is not located but where project's effects are significant

#### 1.19 THE PECEI IN THE NATIONAL NETWORK DEVELOPMENT PLAN

	Contracting Party	Project code in NNDP	Project name	Year of publication in the NNDP	HTML link to NNDP
1					
2					

3					
4					
5					

### 1.20 RELEVANT COMPETENT AUTHORITIES

	Name of competent authority	Postal address of competent authority	Website of competent authority
1			
2			
3			
4			
5			

### 1.21 ARE THERE OTHER PROJECTS DEPENDING ON THE REALISATION OF THE PROJECT?

- Yes, please list the projects (TYNDP code):  
 No

### 1.22 DOES YOUR PROJECT DEPEND ON THE REALISATION OF ANY OTHER PROJECT?

- Yes, please list the projects:  
 No

## 2 TECHNICAL INFORMATION

---

### 2.1 TYPE OF PECE INFRASTRUCTURE

- New onshore interconnector  
 New offshore interconnector  
 Substation

### 2.2 TYPE OF INVESTMENT

- New investment  
 Current upgrade  
 Voltage upgrade  
 Extension  
 Replacement

### 2.3 BRIEF PROJECT DESCRIPTION

### 2.4 ORIGIN POINT (LOCATION, COUNTRY):

**2.5 END POINT (LOCATION, COUNTRY):**

**2.6 EXPECTED DATE OF COMMISSIONING (YEAR)**

**2.7 EXPECTED LIFETIME OF INFRASTRUCTURE (YEARS FROM COMMISSIONING)**

**2.8 EXPECTED INCREASE IN NET TRANSFER CAPACITY (NTC) IN 2020, 2025, 2030**

Country 1	Country 2	Capacity (MW in both directions)

## 2.9 DETAILED TECHNICAL INFORMATION OF THE PROJECT BY MAIN SECTIONS

	Description	Country 1	Country 2	Length of onshore line (km)	Length of offshore line (km)	Type: new line, upgrade, replacement	Line parameters $R(\Omega)$	Line parameters $X(\Omega)$	Line parameters $B(\mu S)$	Number of additional transformer stations	Location of transformer station	Capacity of transformer stations (MVA)	Voltage
Section 1													
Section 2													
Section 3													
Section 4													
Section 5													

### 3 EXPECTED COSTS OF THE PROJECT

**3.1 PLEASE INDICATE TOTAL CAPEX OF THE PROJECT FOR EACH YEAR OF THE INVESTMENT PERIOD (INCLUDING MATERIALS AND CONSTRUCTION COSTS, TEMPORARY SOLUTIONS) IN 2016 REAL MILLION EUR**

Calendar year										
Cost (Real 2016 million EUR)										

**3.2 ESTIMATED VARIATION IN CAPEX (+/-%)**

**3.3 EXPECTED ANNUAL OPEX OF THE PROJECT IN 2016 REAL EUR (OR CHANGE IN ANNUAL OPEX IF UPGRADE/REPLACEMENT)**

Calendar year										
Cost (Real 2016 EUR)										

**3.4 IF THE PROJECT WAS INCLUDED IN THE 2013 PECI LIST, HAS THE CAPEX ESTIMATE CHANGED?**

- Yes  
 No  
 Don't know

**3.5 HAVE YOU APPLIED FOR / DO YOU INTEND TO APPLY FOR OTHER FINANCING (EG. INSTRUMENT FOR PRE-ACCESSION ASSISTANCE OR NEIGHBOURHOOD INVESTMENT FACILITY)?**

- Yes  
 No  
 Already applied for, level of support in million EUR:

## 4 STATUS AND PROGRESS

---

### 4.1 PLEASE INDICATE THE CURRENT STATUS OF THE PECI

Please tick all boxes that apply

- Consideration phase
- Planning approval
- Preliminary design studies
- Market test
- Preliminary investment decision
- Public consultation of Art.9(4) of Regulation 347/2013
- Permitting
- Financing secured
- Cross-border cost allocation request / decision
- Exemption request / decision
- Final investment decision
- Detailed design
- Tendering
- Construction
- Commissioning

### 4.2 PLEASE GIVE AN INDICATIVE IMPLEMENTATION SCHEDULE AS OF 2016 JANUARY

	Start date (month, year)	End date (month, year)
Consideration phase		
Planning approval		
Preliminary design studies		
Market test		
Preliminary investment decision		
Public consultation of Art.9(4) of Regulation 347/2013		
Permitting		
Financing secured		
Cross-border cost allocation request / decision (if applicable)		
Exemption request / decision (if applicable)		
Final investment decision		
Detailed design		
Tendering		
Construction		
Commissioning		

### 4.3 IF YOUR PROJECT WAS INCLUDED IN THE 2013 PECI CANDIDATE LIST, PROVIDE A BRIEF DESCRIPTION OF WORKS CONDUCTED SINCE 2013 (IF APPLICABLE)

### 4.4 IF YOU ENCOUNTERED DELAY IN THE PROJECT PROCESS, WHAT WAS THE EXTENT AND REASON OF DELAY?

#### 4.5 WHAT MEASURES DID YOU TAKE TO TACKLE THE DELAY?

#### 4.6 PLEASE LIST THE MAJOR RISKS AFFECTING THE PROJECT

### 5 ACCESS TO INFRASTRUCTURE

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#### 5.1 ACCESS REGIME APPLICABLE TO THE INFRASTRUCTURE

- Regulated third party access  
 Negotiated third party access  
 Exemption from third party access

#### 5.2 IF THE INFRASTRUCTURE IS EXEMPTED FROM TPA, PLEASE INDICATE THE EXEMPTED CAPACITY AND TIMEFRAME

Exempted from – to (years) -  
 Exempted capacity (TWh/year)

#### 5.3 DO YOU EXPECT A GENERAL TARIFF INCREASE IN THE HOSTING COUNTRIES TO FINANCE INFRASTRUCTURE?

- Yes  
 No

#### 5.4 IF YES, PLEASE INDICATE THE LEVEL OF GENERAL TARIFF INCREASE

Hosting country	Tariff increase (%)

### 6 CONFIDENTIALITY

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We require all data indicated in the questionnaire to conduct the welfare analysis and evaluation of the projects. All cost data submitted in the questionnaire is considered confidential and will only be used for the evaluation and not made public within the project reports as well as at any meetings of the working group; only aggregated cost data that does not allow to link the figures to individual investment projects may be presented in publications. All other submitted data and information is considered non-confidential unless if stated otherwise by project promoter.

Please list the number of the answers which you consider confidential and do not wish to disclose. Answers to questions which are not listed may be published on Energy Community website as part of the evaluation study.

## 7 CONTACT DETAILS

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Please designate two contact persons who can be requested for clarifications and additional information if necessary.

	Primary contact	Secondary contact
Name of contact person		
Organisation		
Position		
Email address		
Phone number		

\* including country dialling code



# Questionnaire for the welfare evaluation of Projects of Energy Community Interest (PECIs) and Projects of Mutual Interest (PMIs) based on the Regulation 347/2013 as adopted by the Energy Community

## Electricity storage projects

### 1 PROJECT IDENTIFICATION

---

#### 1.1 NAME OF THE PROJECT

#### 1.2 WAS THE PROJECT INCLUDED IN ANY OF THE FOLLOWING LIST OF PCIs OR PECIs?

- 2013 PCI (please refer to questions 1.3 and 1.4)
- 2015 PCI (please refer to questions 1.5 and 1.6)
- 2013 PEci (please refer to questions 1.7 and 1.8)
- None of the above (jump to question 1.9)

#### 1.3 UNIQUE PROJECT CODE NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>11</sup>

#### 1.4 PROJECT NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>12</sup>

#### 1.5 UNIQUE PROJECT CODE NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique codename listed in the C(2015) 8052 final Annex of the regulation 347/2013

#### 1.6 PROJECT NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique name listed in the C(2015) 8052 final Annex of the regulation 347/2013

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<sup>11</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

<sup>12</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

**1.7 UNIQUE PROJECT CODE NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)<sup>13</sup>**

**1.8 PROJECT NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)**

Please refer to the document at Energy Community website<sup>14</sup>

**1.9 NAME OF THE PROJECT PROMOTER**

Please submit the full legal name of the project promoter

**1.10 NAME OF THE SHAREHOLDERS OF THE UNDERTAKING IMPLEMENTING THE INVESTMENT PROJECT**

Please submit the full legal name of each undertaking, the percentage of its shareholding in the project and information on their main activities. In case one of the shareholders is an investment holding, please also provide information on the ultimate owner(s) of the investment holding.

Full legal name of shareholder	Shareholding (in %)	Main activities of shareholder	Ultimate owner of investment holding (if applicable)

**1.11 PROJECT WEBSITE ACCORDING TO ARTICLE 9(7) OF THE ADOPTED REGULATION**

**1.12 HOSTING ENERGY COMMUNITY CONTRACTING PARTIES (WHERE THE PROJECT IS LOCATED)**

- Albania  
 Bosnia and Herzegovina  
 Serbia  
 Kosovo\*  
 Montenegro  
 FYR Macedonia  
 Moldova

<sup>13</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PEC\\_I](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PEC_I)

<sup>14</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PEC\\_I](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PEC_I)

Ukraine

\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

### 1.13 IMPACTED ENERGY COMMUNITY CONTRACTING PARTIES

A country is considered impacted where the project is not located but where project's effects are significant

- Albania
- Bosnia and Herzegovina
- Serbia
- Kosovo\*
- Montenegro
- FYR Macedonia
- Moldova
- Ukraine

\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

### 1.14 IMPACTED EU MEMBER STATES

A country is considered impacted where the project is not located but where project's effects are significant\*

- |                                    |   |                                   |   |
|------------------------------------|---|-----------------------------------|---|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia        |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia        |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece         |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia         |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands    |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Slovenia  | <input type="checkbox"/> Spain          | <input type="checkbox"/> Sweden   | <input type="checkbox"/> United Kingdom |

### 1.15 OTHER IMPACTED COUNTRIES

A country is considered impacted where the project is not located but where project's effects are significant

### 1.16 THE PECCI IN THE NATIONAL NETWORK DEVELOPMENT PLAN

	Contracting Party	Project code in NNDP	Project name	Year of publication in the NNDP	HTML link to NNDP
1					
2					
3					
4					
5					

### 1.17 RELEVANT COMPETENT AUTHORITIES

	Name of competent authority	Postal address of competent authority	Website of competent authority
1			
2			
3			
4			
5			

### 1.18 ARE THERE OTHER PROJECTS DEPENDING ON THE REALISATION OF THE PROJECT?

- Yes, please list the projects:  
 No

### 1.19 DOES YOUR PROJECT DEPEND ON THE REALISATION OF ANY OTHER PROJECT?

- Yes, please list the projects:  
 No

## 2 TECHNICAL INFORMATION

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### 2.1 TYPE OF PEI INFRASTRUCTURE

- Hydro-pumped storage  
 Compressed air storage  
 Electrochemical storage

### 2.2 TYPE OF INVESTMENT

- New investment  
 Extension  
 Replacement

### 2.3 BRIEF PROJECT DESCRIPTION

### 2.4 LOCATION OF THE PROJECT (COUNTRY)

### 2.5 EXPECTED DATE OF COMMISSIONING (YEAR)

### 2.6 EXPECTED LIFETIME OF INFRASTRUCTURE (YEARS FROM COMMISSIONING)

## **2.7 CAPACITY AND PERFORMANCE INDICATORS**

- pumping capacity (if applicable) (MW):
- discharge capacity (MW):
- storage capacity (MWh):
- net efficiency (%):
- purpose: reserve or arbitrage:
- planned utilisation hour:

**2.8 IF ADDITIONAL INVESTMENT IN THE NETWORK IS NEEDED FOR THE OPERATION OF THE STORAGE, LIST THE ADDITIONAL INVESTMENT NEED**

	Description	Nominal power (MW)	Type of terrain
Section 1			
Section 2			
Section 3			
Section 4			
Section 5			

### 3 EXPECTED COSTS OF THE PROJECT

#### 3.1 PLEASE INDICATE TOTAL CAPEX OF THE PROJECT FOR EACH YEAR OF THE INVESTMENT PERIOD (INCLUDING MATERIALS AND CONSTRUCTION COSTS, TEMPORARY SOLUTIONS) IN 2016 REAL MILLION EUR

Calendar year										
Cost (Real 2016 million EUR)										
Cost of additional investment (real 2016 million EUR)										

*Note: if you have listed additional investment need, please indicate the additional investments as well*

#### 3.2 ESTIMATED VARIATION IN CAPEX (+/-%)

#### 3.3 EXPECTED ANNUAL OPEX OF THE PROJECT IN 2016 REAL EUR

Calendar year										
Cost (Real 2016 EUR)										
Cost of additional investment (real 2016 EUR)										

#### 3.4 IF THE PROJECT WAS INCLUDED IN THE 2013 PECI LIST, HAS THE CAPEX ESTIMATE CHANGED?

- Yes  
 No  
 Don't know

**3.5 HAVE YOU APPLIED FOR / DO YOU INTEND TO APPLY FOR OTHER FINANCING (EG. INSTRUMENT FOR PRE-ACCESSION ASSISTANCE OR NEIGHBOURHOOD INVESTMENT FACILITY)?**

- Yes  
 No  
 Already applied for, level of support in million EUR:

## **4 STATUS AND PROGRESS**

---

**4.1 PLEASE INDICATE THE CURRENT STATUS OF THE PECEI**

- Consideration phase  
 Planning approval  
 Preliminary design studies  
 Market test  
 Preliminary investment decision  
 Public consultation of Art.9(4) of Regulation 347/2013  
 Permitting  
 Financing secured  
 Cross-border cost allocation request / decision  
 Exemption request / decision  
 Final investment decision  
 Detailed design  
 Tendering  
 Construction  
 Commissioning

**4.2 PLEASE GIVE AN INDICATIVE IMPLEMENTATION SCHEDULE AS OF 2016 JANUARY**

	Start date (month, year)	End date (month, year)
Consideration phase		
Planning approval		
Preliminary design studies		
Market test		
Preliminary investment decision		
Public consultation of Art.9(4) of Regulation 347/2013		
Permitting		
Financing secured		
Cross-border cost allocation request / decision (if applicable)		
Exemption request / decision (if applicable)		
Final investment decision		
Detailed design		
Tendering		
Construction		
Commissioning		



**4.3 IF YOUR PROJECT WAS INCLUDED IN THE 2013 PEGI CANDIDATE LIST, PROVIDE A BRIEF DESCRIPTION OF WORKS CONDUCTED SINCE 2013 (IF APPLICABLE)**

**4.4 IF YOU ENCOUNTERED DELAY IN THE PROJECT PROCESS, WHAT WAS THE EXTENT AND REASON OF DELAY?**

**4.5 WHAT MEASURES DID YOU TAKE TO TACKLE THE DELAY?**

**4.6 PLEASE LIST THE MAJOR RISKS AFFECTING THE PROJECT**

## **5 ACCESS TO INFRASTRUCTURE**

---

**5.1 ACCESS REGIME APPLICABLE TO THE INFRASTRUCTURE**

- Regulated third party access  
 Negotiated third party access  
 Exemption from third party access

**5.2 IF THE INFRASTRUCTURE IS EXEMPTED FROM TPA, PLEASE INDICATE THE EXEMPTED CAPACITY AND TIMEFRAME**

Exempted from – to (years) -

Exempted capacity (TWh/year)

**5.3 DO YOU EXPECT A GENERAL TARIFF INCREASE IN THE HOSTING COUNTRIES TO FINANCE INFRASTRUCTURE?**

- Yes  
 No

**5.4 IF YES, PLEASE INDICATE THE LEVEL OF GENERAL TARIFF INCREASE**

Hosting country	Tariff increase (%)

## **6 CONFIDENTIALITY**

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We require all data indicated in the questionnaire to conduct the welfare analysis and evaluation of the projects. All cost data submitted in the questionnaire is considered confidential and will only be used for the evaluation and not made public within the project reports as well as at any meetings of the working group; only aggregated cost data that does

not allow to link the figures to individual investment projects may be presented in publications. All other submitted data and information is considered non-confidential unless if stated otherwise by project promoter.

Please list the number of the answers which you consider confidential and do not wish to disclose. Answers to questions which are not listed may be published on Energy Community website as part of the evaluation study.

## **7 CONTACT DETAILS**

---

Please designate two contact persons who can be requested for clarifications and additional information if necessary.

	Primary contact	Secondary contact
Name of contact person		
Organisation		
Position		
Email address		
Phone number		

\* including country dialling code

# Questionnaire for the welfare evaluation of Projects of Energy Community Interest (PECIs) and Projects of Mutual Interest (PMIs) based on the Regulation 347/2013 as adopted by the Energy Community

## Gas interconnector projects

### 1 PROJECT IDENTIFICATION

---

#### 1.1 NAME OF THE PROJECT

#### 1.2 WAS THE PROJECT INCLUDED IN ANY OF THE FOLLOWING LIST OF PCIs OR PECIs?

- 2013 PCI (please refer to questions 1.3 and 1.4)
- 2015 PCI (please refer to questions 1.5 and 1.6)
- 2013 PECE (please refer to questions 1.7 and 1.8)
- None of the above (jump to question 1.9)

#### 1.3 UNIQUE PROJECT CODE NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>15</sup>

#### 1.4 PROJECT NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>16</sup>

#### 1.5 UNIQUE PROJECT CODE NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique codename listed in the C(2015) 8052 final Annex of the regulation 347/2013

#### 1.6 PROJECT NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique name listed in the C(2015) 8052 final Annex of the regulation 347/2013

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<sup>15</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

<sup>16</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

**1.7 UNIQUE PROJECT CODE NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)<sup>17</sup>**

**1.8 PROJECT NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)**

Please refer to the document at Energy Community website<sup>18</sup>

**1.9 NAME OF THE PROJECT PROMOTER(S)**

Please submit the full legal name of the project promoter(s)

**1.10 NAME OF THE SHAREHOLDERS OF THE UNDERTAKING IMPLEMENTING THE INVESTMENT PROJECT**

Please submit the full legal name of each undertaking, the percentage of its shareholding in the project and information on their main activities. In case one of the shareholders is an investment holding, please also provide information on the ultimate owner(s) of the investment holding.

Full legal name of shareholder	Shareholding (in %)	Main activities of shareholder	Ultimate owner of investment holding (if applicable)

**1.11 WEBSITE ACCORDING TO ARTICLE 9(7) OF THE ADOPTED REGULATION**

**1.12 CODE OF THE PROJECT IN THE EU TYNDP (IF APPLICABLE)**

**1.13 HOSTING ENERGY COMMUNITY CONTRACTING PARTIES (WHERE THE PROJECT IS LOCATED)**

- Albania
- Bosnia and Herzegovina
- Serbia
- Kosovo\*
- Montenegro
- FYR Macedonia

<sup>17</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PECI](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PECI)

<sup>18</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PECI](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PECI)

- Moldova  
 Ukraine

\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

Note: When the project directly crosses the border of one or more Contracting Parties and one or more Member States, in order to be considered to be a project of Energy Community Interest, it shall be first graded a status of project of common interest within the European Union. (Adaptation of Regulation 347/2013, Article 4 section 5)  
 Project that directly crosses the border of one or more Contracting Parties and one or more Member States which is not granted a status of project of common interest within the European Union may be developed on a voluntary basis as a project of Mutual Interest. (Adaptation of Regulation 347/2013, Article 4 section 6)

#### 1.14 HOSTING EU MEMBER STATES (WHERE THE PROJECT IS LOCATED)

- |                                    |   |                                   |   |
|------------------------------------|---|-----------------------------------|---|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia        |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia        |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece         |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia         |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands    |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Slovenia  | <input type="checkbox"/> Spain          | <input type="checkbox"/> Sweden   | <input type="checkbox"/> United Kingdom |

#### 1.15 OTHER HOSTING COUNTRIES (WHERE THE PROJECT IS LOCATED)

#### 1.16 IMPACTED ENERGY COMMUNITY CONTRACTING PARTIES

A country is considered impacted where the project is not located but where project's effects are significant\*

- Albania  
 Bosnia and Herzegovina  
 Serbia  
 Kosovo\*\*  
 Montenegro  
 FYR Macedonia  
 Moldova  
 Ukraine

\*Significant means investment in reverse flow capacities or changes to the capability to transmit gas across the borders of Contracting Parties and/or Member States concerned by at least 10% compared to the situation prior to the commissioning of the project

\*\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

#### 1.17 IMPACTED EU MEMBER STATES

A country is considered impacted where the project is not located but where project's effects are significant\*

- |                                    |   |                                   |   |
|------------------------------------|---|-----------------------------------|---|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia        |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia        |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece         |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia         |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands    |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Slovenia  | <input type="checkbox"/> Spain          | <input type="checkbox"/> Sweden   | <input type="checkbox"/> United Kingdom |

*\*Significant means investment in reverse flow capacities or changes to the capability to transmit gas across the borders of Contracting Parties and/or Member States concerned by at least 10% compared to the situation prior to the commissioning of the project*

### 1.18 OTHER IMPACTED COUNTRIES

A country is considered impacted where the project is not located but where project's effects are significant

### 1.19 THE PECI IN THE NATIONAL NETWORK DEVELOPMENT PLAN

	Contracting Party	Project code in NNDP	Project name	Year of publication in the NNDP	HTML link to NNDP
1					
2					
3					
4					
5					

### 1.20 RELEVANT COMPETENT AUTHORITIES

	Name of competent authority	Postal address of competent authority	Website of competent authority
1			
2			
3			
4			
5			

### 1.21 ARE THERE OTHER PROJECTS DEPENDING ON THE REALISATION OF THE PROJECT?

- Yes, please list the projects:  
 No

### 1.22 DOES YOUR PROJECT DEPEND ON THE REALISATION OF ANY OTHER PROJECT?

- Yes, please list the projects:  
 No

## 2 TECHNICAL INFORMATION

---

### 2.1 TYPE OF PECI INFRASTRUCTURE

- New pipeline  
 Pipeline extension  
 New compressor station  
 Reverse flow possibility on existing pipeline  
 Internal pipeline

## **2.2 BRIEF PROJECT DESCRIPTION**

## **2.3 ORIGIN POINT (LOCATION, COUNTRY):**

**2.4 END POINT (LOCATION, COUNTRY):**

**2.5 EXPECTED DATE OF COMMISSIONING (YEAR)**

**2.6 EXPECTED LIFETIME OF INFRASTRUCTURE (YEARS FROM COMMISSIONING)**



## 2.7 DETAILED TECHNICAL INFORMATION OF THE PROJECT BY SECTIONS

You are free to divide the project to different sections, if pipeline enables bidirectional gas flows, please provide technical capacities for both directions. If more than two countries are affected, please indicate capacity on all borders in both directions.

	Description	Length (km)	Diameter (mm)	Total number of compressor stations	Compressor power (MW)	Technical Entry Capacity from country A to B (GWh/day)*	Technical Exit Capacity from country A to B (GWh/day)*	Direction of flow**	Maximum operation pressure (bar(g))
Section 1									
Section 2									
Section 3									
Section 4									
Section 5									

\* in case of existing pipeline, list capacity added to existing infrastructure

\*\* point of origin and point of destination of flow (please also indicate if project enables flows in both directions)

### 3 EXPECTED COSTS OF THE PROJECT

**3.1 PLEASE INDICATE TOTAL CAPEX OF THE PROJECT FOR EACH YEAR OF THE INVESTMENT PERIOD (INCLUDING MATERIALS AND CONSTRUCTION COSTS, TEMPORARY SOLUTIONS) IN 2016 REAL MILLION EUR**

Calendar year										
Cost (Real 2016 million EUR)										

**3.2 ESTIMATED VARIATION IN CAPEX (+/-%)**

**3.3 EXPECTED ANNUAL OPEX OF THE PROJECT IN 2016 REAL EUR**

Calendar year										
Cost (Real 2016 EUR)										

**3.4 IF THE PROJECT WAS INCLUDED IN THE 2013 PECI LIST, HAS THE CAPEX ESTIMATE CHANGED?**

- Yes  
 No  
 Don't know

**3.5 HAVE YOU APPLIED FOR / DO YOU INTEND TO APPLY FOR OTHER FINANCING (EG. INSTRUMENT FOR PRE-ACCESSION ASSISTANCE OR NEIGHBOURHOOD INVESTMENT FACILITY)?**

- Yes  
 No  
 Already applied for, level of support in million EUR:

## 4 STATUS AND PROGRESS

---

### 4.1 PLEASE INDICATE THE CURRENT STATUS OF THE PECI

Please tick all boxes that apply

- Consideration phase
- Planning approval
- Preliminary design studies
- Market test
- Preliminary investment decision
- Public consultation of Art.9(4) of Regulation 347/2013
- Permitting
- Financing secured
- Cross-border cost allocation request / decision
- Exemption request / decision
- Final investment decision taken
- Detailed design
- Tendering
- Construction
- Commissioning

### 4.2 PLEASE GIVE AN INDICATIVE IMPLEMENTATION SCHEDULE AS OF 2016 JANUARY

	Start date (month, year)	End date (month, year)
Consideration phase		
Planning approval		
Preliminary design studies		
Market test		
Preliminary investment decision		
Public consultation of Art.9(4) of Regulation 347/2013		
Permitting		
Financing secured		
Cross-border cost allocation request / decision (if applicable)		
Exemption request / decision (if applicable)		
Final investment decision		
Detailed design		
Tendering		
Construction		
Commissioning		

### 4.3 IF YOUR PROJECT WAS INCLUDED IN THE 2013 PECI CANDIDATE LIST, PROVIDE A BRIEF DESCRIPTION OF WORKS CONDUCTED SINCE 2013 (IF APPLICABLE)

### 4.4 IF YOU ENCOUNTERED DELAY IN THE PROJECT PROCESS, WHAT WAS THE EXTENT AND REASON OF DELAY?

#### 4.5 WHAT MEASURES DID YOU TAKE TO TACKLE THE DELAY?

#### 4.6 PLEASE LIST THE MAJOR RISKS AFFECTING THE PROJECT

### 5 ACCESS TO INFRASTRUCTURE

---

#### 5.1 ACCESS REGIME APPLICABLE TO THE INFRASTRUCTURE

- Regulated third party access  
 Negotiated third party access  
 Exemption from third party access

#### 5.2 IF THE INFRASTRUCTURE IS EXEMPTED FROM TPA, PLEASE INDICATE THE EXEMPTED CAPACITY AND TIMEFRAME

Exempted from – to (years) -

Exempted capacity (TWh/year)

#### 5.3 IS A LONG TERM SUPPLY CONTRACT DEDICATED TO THE INFRASTRUCTURE?

- Yes  
 No

#### 5.4 IF A LONG-TERM CONTRACT IS DEDICATED TO THE INFRASTRUCTURE, PLEASE INDICATE THE DETAILS OF THE CONTRACT

Annual contracted quantity (TWh/year)

Flexibility (minimum and maximum yearly off-take, TWh/year)

Pricing linked to TTF or oil indexed?

Contract duration (years)

Contract route\*

*\*please indicate the possible route of the long term contract originating from the exporting country heading to the importing country*

#### 5.5 ACCESS ENTRY AND EXIT TARIFF

Please give an estimation on the access tariff for the newly commissioned infrastructure element (EUR/MWh)

Country (origin)	Country (destination)	Entry tariff (EUR/MWh)	Exit tariff (EUR/MWh)

**5.6 DO YOU EXPECT A GENERAL TARIFF INCREASE IN THE HOSTING COUNTRIES TO FINANCE INFRASTRUCTURE?**

- Yes  
 No

**5.7 IF YES, PLEASE INDICATE THE LEVEL OF GENERAL TARIFF INCREASE**

Hosting country	Tariff increase (%)

**5.8 ARE THERE BINDING OPEN SEASON CONTRACTS IN FORCE?**

- Yes  
 No

**5.9 IF THERE ARE, HOW MUCH OF THE CAPACITY WAS CONTRACTED AND WHAT WERE THE REVENUES RECEIVED?**

Capacity contracted (TWh/year)

Open season revenues (million EUR)

Duration of contract (from year-to year) -

## **6 CONFIDENTIALITY**

We require all data indicated in the questionnaire to conduct the welfare analysis and evaluation of the projects. All cost data submitted in the questionnaire is considered confidential and will only be used for the evaluation and not made public within the project reports as well as at any meetings of the working group; only aggregated cost data that does not allow to link the figures to individual investment projects may be presented in publications. All other submitted data and information is considered non-confidential unless if stated otherwise by project promoter.

Please list the number of the answers which you consider confidential and do not wish to disclose. Answers to questions which are not listed may be published on Energy Community website as part of the evaluation study.

## **7 CONTACT DETAILS**

Please designate two contact persons who can be requested for clarifications and additional information if necessary.

	Primary contact	Secondary contact
Name of contact person		
Organisation		
Position		
Email address		
Phone number		

\* including country dialling code

# Questionnaire for the welfare evaluation of Projects of Energy Community Interest (PECIs) and Projects of Mutual Interest (PMIs) based on the Regulation 347/2013 as adopted by the Energy Community

## LNG terminal projects

### 1 PROJECT IDENTIFICATION

---

#### 1.1 NAME OF THE PROJECT

#### 1.2 WAS THE PROJECT INCLUDED IN ANY OF THE FOLLOWING LIST OF PCIs OR PECIs?

- 2013 PCI (please refer to questions 1.3 and 1.4)
- 2015 PCI (please refer to questions 1.5 and 1.6)
- 2013 PEci (please refer to questions 1.7 and 1.8)
- None of the above (jump to question 1.9)

#### 1.3 UNIQUE PROJECT CODE NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>19</sup>

#### 1.4 PROJECT NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>20</sup>

#### 1.5 UNIQUE PROJECT CODE NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique codename listed in the C(2015) 8052 final Annex of the regulation 347/2013

#### 1.6 PROJECT NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique name listed in the C(2015) 8052 final Annex of the regulation 347/2013

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<sup>19</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

<sup>20</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

**1.7 UNIQUE PROJECT CODE NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)<sup>21</sup>**

**1.8 PROJECT NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)**

Please refer to the document at Energy Community website<sup>22</sup>

**1.9 NAME OF THE PROJECT PROMOTER(S)**

Please submit the full legal name of the project promoter(s)

**1.10 NAME OF THE SHAREHOLDERS OF THE UNDERTAKING IMPLEMENTING THE INVESTMENT PROJECT**

Please submit the full legal name of each undertaking, the percentage of its shareholding in the project and information on their main activities. In case one of the shareholders is an investment holding, please also provide information on the ultimate owner(s) of the investment holding.

Full legal name of shareholder	Shareholding (in %)	Main activities of shareholder	Ultimate owner of investment holding (if applicable)

**1.11 PROJECT WEBSITE ACCORDING TO ARTICLE 9(7) OF THE ADOPTED REGULATION**

**1.12 CODE OF THE PROJECT IN THE EU TYNDP (IF APPLICABLE)**

**1.13 HOSTING ENERGY COMMUNITY CONTRACTING PARTIES (WHERE THE PROJECT IS LOCATED)**

- Albania  
 Bosnia and Herzegovina  
 Serbia  
 Kosovo\*

<sup>21</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PEC\\_I](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PEC_I)

<sup>22</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PEC\\_I](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PEC_I)



- Montenegro
- FYR Macedonia
- Moldova
- Ukraine

\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

Note: When the project directly crosses the border of one or more Contracting Parties and one or more Member States, in order to be considered to be a project of Energy Community Interest, it shall be first graded a status of project of common interest within the European Union. (Adaptation of Regulation 347/2013, Article 4 section 5) Project that directly crosses the border of one or more Contracting Parties and one or more Member States which is not granted a status of project of common interest within the European Union may be developed on a voluntary basis as a project of Mutual Interest. (Adaptation of Regulation 347/2013, Article 4 section 6)

#### 1.14 HOSTING EU MEMBER STATES (WHERE THE PROJECT IS LOCATED)

- |                                    |   |                                   |   |
|------------------------------------|---|-----------------------------------|---|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia        |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia        |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece         |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia         |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands    |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Slovenia  | <input type="checkbox"/> Spain          | <input type="checkbox"/> Sweden   | <input type="checkbox"/> United Kingdom |

#### 1.15 OTHER HOSTING COUNTRIES (WHERE THE PROJECT IS LOCATED)

#### 1.16 IMPACTED ENERGY COMMUNITY CONTRACTING PARTIES

A country is considered impacted where the project is not located but where project's effects are significant\*

- Albania
- Bosnia and Herzegovina
- Serbia
- Kosovo\*\*
- Montenegro
- FYR Macedonia
- Moldova
- Ukraine

\*Significant means changes to the capability to transmit gas across the borders of Contracting Parties and/or Member States concerned by at least 10% compared to the situation prior to the commissioning of the project

\*\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

#### 1.17 IMPACTED EU MEMBER STATES

A country is considered impacted where the project is not located but where project's effects are significant\*

- |                                    |   |                                   |                                      |
|------------------------------------|---|-----------------------------------|--------------------------------------|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia     |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia     |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece      |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia      |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia    |

Slovenia     
  Spain     
  Sweden     
  United Kingdom

*\*Significant means changes to the capability to transmit gas across the borders of Contracting Parties and/or Member States concerned by at least 10% compared to the situation prior to the commissioning of the project*

### 1.18 OTHER IMPACTED COUNTRIES

A country is considered impacted where the project is not located but where project's effects are significant

### 1.19 THE PECI IN THE NATIONAL NETWORK DEVELOPMENT PLAN

	Contracting Party	Project code in NNDP	Project name	Year of publication in the NNDP	HTML link to NNDP
1					
2					
3					
4					
5					

### 1.20 RELEVANT COMPETENT AUTHORITIES

	Name of competent authority	Postal address of competent authority	Website of competent authority
1			
2			
3			
4			
5			

### 1.21 ARE THERE OTHER PROJECTS DEPENDING ON THE REALISATION OF THE PROJECT?

- Yes, please list the projects:  
 No

### 1.22 DOES YOUR PROJECT DEPEND ON THE REALISATION OF ANY OTHER PROJECT?

- Yes, please list the projects:  
 No

## 2 TECHNICAL INFORMATION

---

### 2.1 TYPE OF PECI INFRASTRUCTURE

- FSRU  
 Onshore LNG terminal

**2.2 BRIEF PROJECT DESCRIPTION**

**2.3 LOCATION OF THE TERMINAL (COUNTRY):**

**2.4 EXPECTED DATE OF COMMISSIONING (YEAR)**

**2.5 EXPECTED LIFETIME OF INFRASTRUCTURE (YEARS FROM COMMISSIONING)**

**2.6 DOES THE FACILITY ALLOW FOR MARINE BUNKERING OR FUELLING LAND TRANSPORT?**

- Marine bunkering
- Land transport fuelling
- None of the above

**2.7 DOES THE FACILITY OFFER CARGO RELOADING?**

- Yes
- No

## 2.8 DETAILED TECHNICAL INFORMATION OF THE PROJECT BY SECTIONS

	Maximum annual capacity (TWh/year)	Maximum sendout capacity (GWh/day)	Storage capacity (GWh)

## 2.9 IS THERE A NEED FOR ADDITIONAL NETWORK INVESTMENTS – CONNECTING THE LNG TERMINAL WITH THE GAS NETWORKS OF ANOTHER COUNTRY / MARKET?

- Yes  
 No

## 2.10 IF ADDITIONAL INVESTMENTS ARE NEEDED, PLEASE LIST THE INVESTMENT ACCORDING TO THE TABLE BELOW

You are free to divide the project to different sections, if pipeline enables bidirectional gas flows, please provide technical capacities for both directions. If more than two countries are affected, please indicate capacity on all borders in both directions.

	Description	Length (km)	Diameter (mm)	Total number of compressor stations	Compressor power (MW)	Technical Entry Capacity from country A to B (GWh/day)*	Technical Exit Capacity from country A to B (GWh/day)*	Direction of flow**	Maximum operation pressure (bar(g))
Section 1									
Section 2									
Section 3									
Section 4									
Section 5									

\* in case of existing pipeline, list capacity added to existing infrastructure

\*\* point of origin and point of destination of flow (please also indicate if project enables flows in both directions)

### 3 EXPECTED COSTS OF THE PROJECT

#### 3.1 PLEASE INDICATE TOTAL CAPEX OF THE PROJECT FOR EACH YEAR OF THE INVESTMENT PERIOD (INCLUDING MATERIALS AND CONSTRUCTION COSTS, TEMPORARY SOLUTIONS) IN 2016 REAL MILLION EUR

Calendar year										
Cost (Real 2016 million EUR)										

*Note: submit CAPEX values net of bunkering related investment, include only regasification and pipeline injection*

#### 3.2 ESTIMATED VARIATION IN CAPEX (+/-%)

#### 3.3 EXPECTED ANNUAL OPEX OF THE PROJECT IN 2016 REAL EUR

Calendar year										
Cost (Real 2016 million EUR)										

#### 3.4 IF THE PROJECT WAS INCLUDED IN THE 2013 PECI LIST, HAS THE CAPEX ESTIMATE CHANGED?

- Yes  
 No  
 Don't know

#### 3.5 HAVE YOU APPLIED FOR / DO YOU INTEND TO APPLY FOR OTHER FINANCING (EG. INSTRUMENT FOR PRE-ACCESSION ASSISTANCE OR NEIGHBOURHOOD INVESTMENT FACILITY)?

- Yes  
 No  
 Already applied for, level of support in million EUR:

## 4 STATUS AND PROGRESS

---

### 4.1 PLEASE INDICATE THE CURRENT STATUS OF THE PECI

- Consideration phase
- Planning approval
- Preliminary design studies
- Market test
- Preliminary investment decision
- Public consultation of Art.9(4) of Regulation 347/2013
- Permitting
- Financing secured
- Cross-border cost allocation request / decision
- Exemption request / decision
- Final investment decision
- Detailed design
- Tendering
- Construction
- Commissioning

### 4.2 PLEASE GIVE AN INDICATIVE IMPLEMENTATION SCHEDULE AS OF 2016 JANUARY

Start date (month, year)

End date (month, year)

Consideration phase  
 Planning approval  
 Preliminary design studies  
 Market test  
 Preliminary investment decision  
 Public consultation of Art.9(4) of  
 Regulation 347/2013  
 Permitting  
 Financing secured  
 Cross-border cost allocation request /  
 decision (if applicable)  
 Exemption request / decision (if  
 applicable)  
 Final investment decision  
 Detailed design  
 Tendering  
 Construction  
 Commissioning

### 4.3 IF YOUR PROJECT WAS INCLUDED IN THE 2013 PECI CANDIDATE LIST, PROVIDE A BRIEF DESCRIPTION OF WORKS CONDUCTED SINCE 2013 (IF APPLICABLE)

### 4.4 IF YOU ENCOUNTERED DELAY IN THE PROJECT PROCESS, WHAT WAS THE EXTENT AND REASON OF DELAY?

#### 4.5 WHAT MEASURES DID YOU TAKE TO TACKLE THE DELAY?

#### 4.6 PLEASE LIST THE MAJOR RISKS AFFECTING THE PROJECT

### 5 ACCESS TO INFRASTRUCTURE

---

#### 5.1 WHAT IS THE ACCESS REGIME APPLICABLE TO THE INFRASTRUCTURE?

- Regulated third party access  
 Negotiated third party access  
 Exemption from third party access

#### 5.2 IF THE INFRASTRUCTURE IS EXEMPTED FROM TPA, PLEASE INDICATE THE EXEMPTED CAPACITY AND TIMEFRAME

Exempted from – to (years) -

Exempted capacity (TWh/year)

#### 5.3 IS A LONG TERM SUPPLY CONTRACT DEDICATED TO THE INFRASTRUCTURE?

- Yes  
 No

#### 5.4 IF A LONG-TERM CONTRACT IS DEDICATED TO THE INFRASTRUCTURE, PLEASE INDICATE THE DETAILS OF THE CONTRACT

Annual contracted quantity (TWh/year)

Flexibility (minimum and maximum yearly off-take, TWh/year)

Pricing linked to TTF or oil indexed?

Contract duration (years)

Contract route\*

*\*please indicate the possible route of the long term contract originating from the exporting country heading to the importing country*

#### 5.5 TARIFFS APPLICABLE

Please give an estimation on the tariff for pipeline entry from LNG terminal and other charges if applicable (EUR/MWh)

Regasification tariff (EUR/MWh)	Entry to gas system (EUR/MWh)	Other charges (EUR/MWh)

#### 5.6 DO YOU EXPECT A GENERAL TARIFF INCREASE IN THE HOSTING COUNTRIES TO FINANCE INFRASTRUCTURE?

- Yes  
 No

### 5.7 IF YES, PLEASE INDICATE THE LEVEL OF GENERAL TARIFF INCREASE

Hosting country	Tariff increase (%)

### 5.8 ARE THERE BINDING OPEN SEASON CONTRACTS IN FORCE?

- Yes  
 No

### 5.9 IF THERE ARE, HOW MUCH OF THE CAPACITY WAS CONTRACTED AND WHAT WERE THE REVENUES RECEIVED?

Capacity contracted (TWh/year)

Open season revenues (million EUR)

Duration of contract (from year-to year) -

## 6 CONFIDENTIALITY

We require all data indicated in the questionnaire to conduct the welfare analysis and evaluation of the projects. All cost data submitted in the questionnaire is considered confidential and will only be used for the evaluation and not made public within the project reports as well as at any meetings of the working group; only aggregated cost data that does not allow to link the figures to individual investment projects may be presented in publications. All other submitted data and information is considered non-confidential unless if stated otherwise by project promoter.

Please list the number of the answers which you consider confidential and do not wish to disclose. Answers to questions which are not listed may be published on Energy Community website as part of the evaluation study.

## 7 CONTACT DETAILS

Please designate two contact persons who can be requested for clarifications and additional information if necessary.

	Primary contact	Secondary contact
Name of contact person		
Organisation		
Position		
Email address		
Phone number		

\* including country dialling code



# Questionnaire for the welfare evaluation of Projects of Energy Community Interest (PECIs) and Projects of Mutual Interest (PMIs) based on the Regulation 347/2013 as adopted by the Energy Community

## Underground gas storage projects

### 1 PROJECT IDENTIFICATION

---

#### 1.1 NAME OF THE PROJECT

#### 1.2 WAS THE PROJECT INCLUDED IN ANY OF THE FOLLOWING LIST OF PCIs OR PECIs?

- 2013 PCI (please refer to questions 1.3 and 1.4)
- 2015 PCI (please refer to questions 1.5 and 1.6)
- 2013 PECE (please refer to questions 1.7 and 1.8)
- None of the above (jump to question 1.9)

#### 1.3 UNIQUE PROJECT CODE NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>23</sup>

#### 1.4 PROJECT NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>24</sup>

#### 1.5 UNIQUE PROJECT CODE NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique codename listed in the C(2015) 8052 final Annex of the regulation 347/2013

#### 1.6 PROJECT NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique name listed in the C(2015) 8052 final Annex of the regulation 347/2013

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<sup>23</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

<sup>24</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

**1.7 UNIQUE PROJECT CODE NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)<sup>25</sup>**

**1.8 PROJECT NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)**

Please refer to the document at Energy Community website<sup>26</sup>

**1.9 NAME OF THE PROJECT PROMOTER**

Please submit the full legal name of the project promoter

**1.10 NAME OF THE SHAREHOLDERS OF THE UNDERTAKING IMPLEMENTING THE INVESTMENT PROJECT**

Please submit the full legal name of each undertaking, the percentage of its shareholding in the project and information on their main activities. In case one of the shareholders is an investment holding, please also provide information on the ultimate owner(s) of the investment holding.

Full legal name of shareholder	Shareholding (in %)	Main activities of shareholder	Ultimate owner of investment holding (if applicable)

**1.11 PROJECT WEBSITE ACCORDING TO ARTICLE 9(7) OF THE ADOPTED REGULATION**

**1.12 CODE OF THE PROJECT IN THE EU TYNDP (IF APPLICABLE)**

**1.13 HOSTING ENERGY COMMUNITY CONTRACTING PARTIES (WHERE THE PROJECT IS LOCATED)**

- Albania  
 Bosnia and Herzegovina  
 Serbia  
 Kosovo\*

<sup>25</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PEC\\_I](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PEC_I)

<sup>26</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PEC\\_I](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PEC_I)

- Montenegro
- FYR Macedonia
- Moldova
- Ukraine

\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

Note: When the project directly crosses the border of one or more Contracting Parties and one or more Member States, in order to be considered to be a project of Energy Community Interest, it shall be first graded a status of project of common interest within the European Union. (Adaptation of Regulation 347/2013, Article 4 section 5) Project that directly crosses the border of one or more Contracting Parties and one or more Member States which is not granted a status of project of common interest within the European Union may be developed on a voluntary basis as a project of Mutual Interest. (Adaptation of Regulation 347/2013, Article 4 section 6)

#### 1.14 HOSTING EU MEMBER STATES (WHERE THE PROJECT IS LOCATED)

- |                                    |   |                                   |   |
|------------------------------------|---|-----------------------------------|---|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia        |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia        |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece         |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia         |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands    |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Slovenia  | <input type="checkbox"/> Spain          | <input type="checkbox"/> Sweden   | <input type="checkbox"/> United Kingdom |

#### 1.15 OTHER HOSTING COUNTRIES (WHERE THE PROJECT IS LOCATED)

#### 1.16 IMPACTED ENERGY COMMUNITY CONTRACTING PARTIES

A country is considered impacted where the project is not located but where project's effects are significant\*

- Albania
- Bosnia and Herzegovina
- Serbia
- Kosovo\*\*
- Montenegro
- FYR Macedonia
- Moldova
- Ukraine

\*Significant means changes to the capability to transmit gas across the borders of Contracting Parties and/or Member States concerned by at least 10% compared to the situation prior to the commissioning of the project

\*\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

#### 1.17 IMPACTED EU MEMBER STATES

A country is considered impacted where the project is not located but where project's effects are significant\*

- |                                    |   |                                   |                                      |
|------------------------------------|---|-----------------------------------|--------------------------------------|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia     |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia     |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece      |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia      |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia    |

Slovenia     
  Spain     
  Sweden     
  United Kingdom

*\*Significant means changes to the capability to transmit gas across the borders of Contracting Parties and/or Member States concerned by at least 10% compared to the situation prior to the commissioning of the project*

### 1.18 OTHER IMPACTED COUNTRIES

A country is considered impacted where the project is not located but where project's effects are significant

### 1.19 THE PECI IN THE NATIONAL NETWORK DEVELOPMENT PLAN

	Contracting Party	Project code in NNDP	Project name	Year of publication in the NNDP	HTML link to NNDP
1					
2					
3					
4					
5					

### 1.20 RELEVANT COMPETENT AUTHORITIES

	Name of competent authority	Postal address of competent authority	Website of competent authority
1			
2			
3			
4			
5			

### 1.21 ARE THERE OTHER PROJECTS DEPENDING ON THE REALISATION OF THE PROJECT?

- Yes, please list the projects:  
 No

### 1.22 DOES YOUR PROJECT DEPEND ON THE REALISATION OF ANY OTHER PROJECT?

- Yes, please list the projects:  
 No

## 2 TECHNICAL INFORMATION

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### 2.1 TYPE OF PECI INFRASTRUCTURE

- Depleted field  
 Aquifer  
 Salt cavern  
 Other (please specify):

**2.2 BRIEF PROJECT DESCRIPTION**

**2.3 LOCATION, COUNTRY:**

**2.4 EXPECTED DATE OF COMMISSIONING (YEAR)**

**2.5 EXPECTED LIFETIME OF INFRASTRUCTURE (YEARS FROM COMMISSIONING)**

**2.6 WORKING GAS CAPACITY (TWH)**

**2.7 AMOUNT OF CUSHION GAS (TWH)**

**2.8 DAILY MAXIMUM WITHDRAWAL CAPACITY (GWH/DAY)**

## 2.9 DAILY MAXIMUM INJECTION CAPACITY (GWH/DAY)

### 2.10 NUMBER OF STORAGE CYCLES PER YEAR

- One per year  
 Two per year  
 Multiple per year (more than two)  
 Other (please specify):

### 2.11 ADDITIONAL INVESTMENT RELATED TO THE UGS FACILITY

You are free to divide the project to different sections, if pipeline enables bidirectional gas flows, please provide technical capacities for both directions. If more than two countries are affected, please indicate capacity on all borders in both directions.

	Description	Length (km)	Diameter (mm)	Total number of compressor stations	Compressor power (MW)	Technical Entry Capacity from country A to B (GWh/day)*	Technical Exit Capacity from country A to B (GWh/day)*	Direction of flow**	Maximum operation pressure (bar(g))
Section 1									
Section 2									
Section 3									
Section 4									
Section 5									

\* in case of existing pipeline, list capacity added to existing infrastructure

\*\* point of origin and point of destination of flow (please also indicate if project enables flows in both directions)

### 3 EXPECTED COSTS OF THE PROJECT

**3.1 PLEASE INDICATE TOTAL CAPEX OF THE PROJECT FOR EACH YEAR OF THE INVESTMENT PERIOD (INCLUDING MATERIALS AND CONSTRUCTION COSTS, TEMPORARY SOLUTIONS) IN 2016 REAL MILLION EUR**

Calendar year										
Cost (Real 2016 million EUR)										

**3.2 ESTIMATED VARIATION IN CAPEX (+/-%)**

**3.3 EXPECTED ANNUAL OPEX OF THE PROJECT IN 2016 REAL EUR**

Calendar year										
Cost (Real 2016 EUR)										

**3.4 IF THE PROJECT WAS INCLUDED IN THE 2013 PECI LIST, HAS THE CAPEX ESTIMATE CHANGED?**

- Yes  
 No  
 Don't know

**3.5 HAVE YOU APPLIED FOR / DO YOU INTEND TO APPLY FOR OTHER FINANCING (EG. INSTRUMENT FOR PRE-ACCESSION ASSISTANCE OR NEIGHBOURHOOD INVESTMENT FACILITY)?**

- Yes  
 No  
 Already applied for, level of support in million EUR:

## 4 STATUS AND PROGRESS

---

### 4.1 PLEASE INDICATE THE CURRENT STATUS OF THE PECI

- Consideration phase
- Planning approval
- Preliminary design studies
- Market test
- Preliminary investment decision
- Public consultation of Art.9(4) of Regulation 347/2013
- Permitting
- Financing secured
- Cross-border cost allocation request / decision
- Exemption request / decision
- Final investment decision
- Detailed design
- Tendering
- Construction
- Commissioning

### 4.2 PLEASE GIVE AN INDICATIVE IMPLEMENTATION SCHEDULE AS OF 2016 JANUARY

	Start date (month, year)	End date (month, year)
Consideration phase		
Planning approval		
Preliminary design studies		
Market test		
Preliminary investment decision		
Public consultation of Art.9(4) of Regulation 347/2013		
Permitting		
Financing secured		
Cross-border cost allocation request / decision (if applicable)		
Exemption request / decision (if applicable)		
Final investment decision		
Detailed design		
Tendering		
Construction		
Commissioning		

### 4.3 IF YOUR PROJECT WAS INCLUDED IN THE 2013 PECI CANDIDATE LIST, PROVIDE A BRIEF DESCRIPTION OF WORKS CONDUCTED SINCE 2013 (IF APPLICABLE)

### 4.4 IF YOU ENCOUNTERED DELAY IN THE PROJECT PROCESS, WHAT WAS THE EXTENT AND REASON OF DELAY?



**4.5 WHAT MEASURES DID YOU TAKE TO TACKLE THE DELAY?**

**4.6 PLEASE LIST THE MAJOR RISKS AFFECTING THE PROJECT**

## **5 ACCESS TO INFRASTRUCTURE**

---

**5.1 ACCESS REGIME APPLICABLE TO THE INFRASTRUCTURE**

- Regulated third party access  
 Negotiated third party access  
 Exemption from third party access

**5.2 IF THE INFRASTRUCTURE IS EXEMPTED FROM TPA, PLEASE INDICATE THE EXEMPTED CAPACITY AND TIMEFRAME**

Exempted from – to (years) -

Exempted capacity (TWh/year)

**5.3 IS A LONG TERM SUPPLY CONTRACT DEDICATED TO THE INFRASTRUCTURE?**

- Yes  
 No

**5.4 IF A LONG-TERM CONTRACT IS DEDICATED TO THE INFRASTRUCTURE, PLEASE INDICATE THE DETAILS OF THE CONTRACT**

Annual contracted quantity (TWh/year)

Flexibility (minimum and maximum yearly off-take, TWh/year)

Pricing linked to TTF or oil indexed?

Contract duration (years)

Contract route\*

*\*please indicate the possible route of the long term contract originating from the exporting country heading to the importing country*

**5.5 IS THERE A STORAGE OBLIGATION IN FORCE OR IS IT EXPECTED TO BE IN FORCE UPON THE COMPLETION OF THE PROJECT?**

- Yes  
 No

**5.6 IF THERE IS A STORAGE OBLIGATION, PLEASE INDICATE THE AMOUNT OF NATURAL GAS TO BE INJECTED IN STORAGES EACH YEAR IN TWH AND GIVE A BRIEF EXPLANATION OF THE OBLIGATION**

Amount of gas to be injected (TWh/year)

Brief description of storage obligation

### 5.7 ACCESS ENTRY AND EXIT TARIFF

Please give an estimation on the access tariff for the newly commissioned infrastructure element (EUR/MWh)

Working gas capacity fee (EUR/MW)	Injection fee (EUR/MWh)	Withdrawal fee (EUR/MWh)	Entry tariff to transmission system (EUR/MWh)	Other applicable tariffs* (EUR/MWh)

\*please specify the meaning of other tariffs

### 5.8 DO YOU EXPECT A GENERAL TARIFF INCREASE IN THE HOSTING COUNTRIES TO FINANCE INFRASTRUCTURE?

- Yes  
 No

### 5.9 IF YES, PLEASE INDICATE THE LEVEL OF GENERAL TARIFF INCREASE

Hosting country	Tariff increase (%)

### 5.10 ARE THERE BINDING OPEN SEASON CONTRACTS IN FORCE?

- Yes  
 No

### 5.11 IF THERE ARE, HOW MUCH OF THE CAPACITY WAS CONTRACTED AND WHAT WERE THE REVENUES RECEIVED?

Capacity contracted (TWh/year)

Open season revenues (million EUR)

Duration of contract (from year-to year) -

## 6 CONFIDENTIALITY

We require all data indicated in the questionnaire to conduct the welfare analysis and evaluation of projects. Data submitted in the questionnaire is considered non-confidential, unless if stated otherwise by project promoter.

Please list the number of answers which you consider confidential and do not wish to disclose. Answers to questions which are not listed here will be published on Energy Community website as part of the evaluation study.

## 7 CONTACT DETAILS

Please designate two contact persons who can be requested for clarifications and additional information if necessary.

Primary contact

Secondary contact

Name of contact person

Organisation

Position

Email address

Phone number

\* including country dialling code

# Questionnaire for the welfare evaluation of Projects of Energy Community Interest (PECIs) and Projects of Mutual Interest (PMIs) based on the Regulation 347/2013 as adopted by the Energy Community

## Crude oil interconnector projects

### 1 PROJECT IDENTIFICATION

---

#### 1.1 NAME OF THE PROJECT

#### 1.2 WAS THE PROJECT INCLUDED IN ANY OF THE FOLLOWING LIST OF PCIs OR PECIs?

- 2013 PCI (please refer to questions 1.3 and 1.4)
- 2015 PCI (please refer to questions 1.5 and 1.6)
- 2013 PEci (please refer to questions 1.7 and 1.8)
- None of the above (jump to question 1.9)

#### 1.3 UNIQUE PROJECT CODE NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>27</sup>

#### 1.4 PROJECT NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>28</sup>

#### 1.5 UNIQUE PROJECT CODE NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique codename listed in the C(2015) 8052 final Annex of the regulation 347/2013

#### 1.6 PROJECT NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique name listed in the C(2015) 8052 final Annex of the regulation 347/2013

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<sup>27</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

<sup>28</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

**1.7 UNIQUE PROJECT CODE NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)<sup>29</sup>**

**1.8 PROJECT NAME IN THE 2013 LIST OF PECIS (IF APPLICABLE)**

Please refer to the document at Energy Community website<sup>30</sup>

**1.9 NAME OF THE PROJECT PROMOTER**

Please submit the full legal name of the project promoter

**1.10 NAME OF THE SHAREHOLDERS OF THE UNDERTAKING IMPLEMENTING THE INVESTMENT PROJECT**

Please submit the full legal name of each undertaking, the percentage of its shareholding in the project and information on their main activities. In case one of the shareholders is an investment holding, please also provide information on the ultimate owner(s) of the investment holding.

Full legal name of shareholder	Shareholding (in %)	Main activities of shareholder	Ultimate owner of investment holding (if applicable)

**1.11 PROJECT WEBSITE ACCORDING TO ARTICLE 9(7) OF THE ADOPTED REGULATION**

**1.12 HOSTING ENERGY COMMUNITY CONTRACTING PARTIES (WHERE THE PROJECT IS LOCATED)**

- Albania  
 Bosnia and Herzegovina  
 Serbia  
 Kosovo\*  
 Montenegro  
 FYR Macedonia

<sup>29</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PEC\\_I](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PEC_I)

<sup>30</sup> [https://www.energy-community.org/portal/page/portal/ENC\\_HOME/AREAS\\_OF\\_WORK/Instruments/Investments/PECIs/List\\_PEC\\_I](https://www.energy-community.org/portal/page/portal/ENC_HOME/AREAS_OF_WORK/Instruments/Investments/PECIs/List_PEC_I)

- Moldova  
 Ukraine

\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

Note: When the project directly crosses the border of one or more Contracting Parties and one or more Member States, in order to be considered to be a project of Energy Community Interest, it shall be first graded a status of project of common interest within the European Union. (Adaptation of Regulation 347/2013, Article 4 section 5)  
 Project that directly crosses the border of one or more Contracting Parties and one or more Member States which is not granted a status of project of common interest within the European Union may be developed on a voluntary basis as a project of Mutual Interest. (Adaptation of Regulation 347/2013, Article 4 section 6)

### 1.13 HOSTING EU MEMBER STATES (WHERE THE PROJECT IS LOCATED)

- |                                    |   |                                   |   |
|------------------------------------|---|-----------------------------------|---|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia        |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia        |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece         |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia         |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands    |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Slovenia  | <input type="checkbox"/> Spain          | <input type="checkbox"/> Sweden   | <input type="checkbox"/> United Kingdom |

### 1.14 OTHER HOSTING COUNTRIES (WHERE THE PROJECT IS LOCATED)

### 1.15 IMPACTED ENERGY COMMUNITY CONTRACTING PARTIES

A country is considered impacted where the project is not located but where project's effects are significant\*

- Albania  
 Bosnia and Herzegovina  
 Serbia  
 Kosovo\*\*  
 Montenegro  
 FYR Macedonia  
 Moldova  
 Ukraine

\*Significant means investment in reverse flow capacities or changes to the capability to transmit gas across the borders of Contracting Parties and/or Member States concerned by at least 10% compared to the situation prior to the commissioning of the project

\*\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

### 1.16 IMPACTED EU MEMBER STATES

A country is considered impacted where the project is not located but where project's effects are significant\*

- |                                    |   |                                   |   |
|------------------------------------|---|-----------------------------------|---|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia        |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia        |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece         |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia         |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands    |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Slovenia  | <input type="checkbox"/> Spain          | <input type="checkbox"/> Sweden   | <input type="checkbox"/> United Kingdom |

*\*Significant means investment in reverse flow capacities or changes to the capability to transmit gas across the borders of Contracting Parties and/or Member States concerned by at least 10% compared to the situation prior to the commissioning of the project*

### 1.17 OTHER IMPACTED COUNTRIES

A country is considered impacted where the project is not located but where project's effects are significant

### 1.18 THE PECEI IN THE NATIONAL NETWORK DEVELOPMENT PLAN

	Contracting Party	Project code in NNDP	Project name	Year of publication in the NNDP	HTML link to NNDP
1					
2					
3					
4					
5					

### 1.19 RELEVANT COMPETENT AUTHORITIES

	Name of competent authority	Postal address of competent authority	Website of competent authority
1			
2			
3			
4			
5			

### 1.20 ARE THERE OTHER PROJECTS DEPENDING ON THE REALISATION OF THE PROJECT?

- Yes, please list the projects:  
 No

### 1.21 DOES YOUR PROJECT DEPEND ON THE REALISATION OF ANY OTHER PROJECT?

- Yes, please list the projects:  
 No

## 2 TECHNICAL INFORMATION

---

### 2.1 PLEASE DEMONSTRATE CLEARLY HOW THE PROJECT CONTRIBUTES TO THE CRITERIA SPECIFIED IN ARTICLE 4 OF THE IMPLEMENTED REGULATION 347/2013.

How does the project qualify in the following dimensions?	
security of supply reducing single supply	

source or route dependency	
efficient and sustainable use of resources through mitigation of environmental risks	
interoperability	

**2.2 TYPE OF PEI INFRASTRUCTURE**

- New pipeline
- Pipeline extension
- New pump station
- Reverse flow possibility on existing pipeline
- Internal pipeline

**2.3 BRIEF PROJECT DESCRIPTION**

**2.4 ORIGIN POINT (LOCATION, COUNTRY):**

**2.5 END POINT (LOCATION, COUNTRY; PLEASE INDICATE SUPPLIED REFINERY, STORAGE OR OTHER FACILITY):**

**2.6 EXPECTED DATE OF COMMISSIONING (YEAR)**

**2.7 EXPECTED LIFETIME OF INFRASTRUCTURE (YEARS FROM COMMISSIONING)**

**2.8 TYPE OF RELATED STORAGE (M3)**

**2.9 RELATED STORAGE CAPACITY (M3)**

**2.10 DOES THE PROJECT CONTRIBUTE TO FULFILLING SECURITY STOCKHOLDING OBLIGATIONS?**

- Yes, please specify:
- No



## 2.11 DETAILED TECHNICAL INFORMATION OF THE PROJECT BY SECTIONS

You are free to divide the project to different sections

	Description	Length (km)	Diameter (mm)	Total number of compressor stations	Pump power (MW)	Capacity (bbl/d)*	Capacity (MTA/y)	Direction of flow**
Section 1								
Section 2								
Section 3								
Section 4								
Section 5								

\* in case of existing pipeline, list capacity added to existing infrastructure

\*\* point of origin and point of destination of flow

### 3 EXPECTED COSTS OF THE PROJECT

---

**3.1 PLEASE INDICATE TOTAL CAPEX OF THE PROJECT FOR EACH YEAR OF THE INVESTMENT PERIOD (INCLUDING MATERIALS AND CONSTRUCTION COSTS, TEMPORARY SOLUTIONS) IN 2016 REAL MILLION EUR**

Calendar year										
Cost (Real 2016 million EUR)										

**3.2 ESTIMATED VARIATION IN CAPEX (+/-%)**

**3.3 EXPECTED ANNUAL OPEX OF THE PROJECT IN 2016 REAL EUR**

Calendar year										
Cost (Real 2016 EUR)										

**3.4 IF THE PROJECT WAS INCLUDED IN THE 2013 PECI LIST, HAS THE CAPEX ESTIMATE CHANGED?**

- Yes  
 No  
 Don't know

**3.5 HAVE YOU APPLIED FOR / DO YOU INTEND TO APPLY FOR OTHER FINANCING (EG. INSTRUMENT FOR PRE-ACCESSION ASSISTANCE OR NEIGHBOURHOOD INVESTMENT FACILITY)?**

- Yes  
 No  
 Already applied for, level of support in million EUR:

## 4 STATUS AND PROGRESS

---

### 4.1 PLEASE INDICATE THE CURRENT STATUS OF THE PEGI

- Consideration phase
- Planning approval
- Preliminary design studies
- Market test
- Preliminary investment decision
- Public consultation of Art.9(4) of Regulation 347/2013
- Permitting
- Financing secured
- Cross-border cost allocation request / decision
- Exemption request / decision
- Final investment decision
- Detailed design
- Tendering
- Construction
- Commissioning

### 4.2 PLEASE GIVE AN INDICATIVE IMPLEMENTATION SCHEDULE AS OF 2016 JANUARY

	Start date (month, year)	End date (month, year)
Consideration phase		
Planning approval		
Preliminary design studies		
Market test		
Preliminary investment decision		
Public consultation of Art.9(4) of Regulation 347/2013		
Permitting		
Financing secured		
Cross-border cost allocation request / decision (if applicable)		
Exemption request / decision (if applicable)		
Final investment decision		
Detailed design		
Tendering		
Construction		
Commissioning		

### 4.3 IF YOUR PROJECT WAS INCLUDED IN THE 2013 PEGI CANDIDATE LIST, PROVIDE A BRIEF DESCRIPTION OF WORKS CONDUCTED SINCE 2013 (IF APPLICABLE)

### 4.4 IF YOU ENCOUNTERED DELAY IN THE PROJECT PROCESS, WHAT WAS THE EXTENT AND REASON OF DELAY?

#### 4.5 WHAT MEASURES DID YOU TAKE TO TACKLE THE DELAY?

#### 4.6 PLEASE LIST THE MAJOR RISKS AFFECTING THE PROJECT

### 5 ACCESS TO INFRASTRUCTURE

---

#### 5.1 IS A LONG TERM SUPPLY CONTRACT DEDICATED TO THE INFRASTRUCTURE?

- Yes  
 No

#### 5.2 ACCESS ENTRY AND EXIT TARIFF

Please give an estimation on the access tariff for the newly commissioned infrastructure element (EUR/t or Eur/bbl)

Country (origin)	Country (destination)	Entry tariff (EUR/ t or EUR/bbl)	Exit tariff (EUR/ t or EUR/bbl)

### 6 CONFIDENTIALITY

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We require all data indicated in the questionnaire to conduct the welfare analysis and evaluation of the projects. All cost data submitted in the questionnaire is considered confidential and will only be used for the evaluation and not made public within the project reports as well as at any meetings of the working group; only aggregated cost data that does not allow to link the figures to individual investment projects may be presented in publications. All other submitted data and information is considered non-confidential unless if stated otherwise by project promoter.

Please list the number of the answers which you consider confidential and do not wish to disclose. Answers to questions which are not listed may be published on Energy Community website as part of the evaluation study.

### 7 CONTACT DETAILS

---

Please designate two contact persons who can be requested for clarifications and additional information if necessary.

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	Primary contact	Secondary contact
Name of contact person		
Organisation		
Position		
Email address		
Phone number		

\* including country dialling code

# Questionnaire for the welfare evaluation of Projects of Energy Community Interest (PECIs) and Projects of Mutual Interest (PMIs) based on the Regulation 347/2013 as adopted by the Energy Community

## Smart Grid projects

### 1 PROJECT IDENTIFICATION

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#### 1.1 NAME OF THE PROJECT

#### 1.2 WAS THE PROJECT INCLUDED IN ANY OF THE FOLLOWING LIST OF PCIs OR PECIs?

- 2013 PCI (please refer to questions 1.3 and 1.4)
- 2015 PCI (please refer to questions 1.5 and 1.6)
- None of the above (jump to question 1.9)

#### 1.3 UNIQUE PROJECT CODE NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>31</sup>

#### 1.4 PROJECT NAME IN THE 2013 UNION LIST OF PCIs (IF APPLICABLE)<sup>32</sup>

#### 1.5 UNIQUE PROJECT CODE NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique codename listed in the C(2015) 8052 final Annex of the regulation 347/2013

#### 1.6 PROJECT NAME IN THE 2015 UNION LIST OF PCIs (IF APPLICABLE)

If your project also appears in the list of PCIs, please refer to its unique name listed in the C(2015) 8052 final Annex of the regulation 347/2013

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<sup>31</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

<sup>32</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R1391&from=EN>

### 1.7 NAME OF THE PROJECT PROMOTER(S)

Please submit the full legal name of the project promoter(s)

### 1.8 NAME OF THE SHAREHOLDERS IMPLEMENTING THE INVESTMENT PROJECT

Please submit the full legal name of each undertaking, the percentage of its shareholding in the project and information on their main activities. In case one of the shareholders is an investment holding, please also provide information on the ultimate owner(s) of the investment holding.

Full legal name of shareholder	Shareholding (in %)	Main activities of shareholder	Ultimate owner of investment holding (if applicable)

### 1.9 WEBSITE ACCORDING TO ARTICLE 9(7) OF THE ADOPTED REGULATION

### 1.10 CODE OF THE PROJECT IN THE EU TYNDP (IF APPLICABLE)

### 1.11 HOSTING ENERGY COMMUNITY CONTRACTING PARTIES (WHERE THE PROJECT IS LOCATED)

- Albania
- Bosnia and Herzegovina
- Serbia
- Kosovo\*
- Montenegro
- FYR Macedonia
- Moldova
- Ukraine

\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

Note: When the project directly crosses the border of one or more Contracting Parties and one or more Member States, in order to be considered to be a project of Energy Community Interest, it shall be first granted a status of project of common interest within the European Union. (Adaptation of Regulation 347/2013, Article 4 section 5)

Project that directly crosses the border of one or more Contracting Parties and one or more Member States which is not granted a status of project of common interest within the European Union may be developed on a voluntary basis as a project of Mutual Interest. (Adaptation of Regulation 347/2013, Article 4 section 6)

### 1.12 HOSTING EU MEMBER STATES (WHERE THE PROJECT IS LOCATED)

- Austria
- Belgium
- Bulgaria
- Croatia

- |                                    |   |                                  |   |
|------------------------------------|---|----------------------------------|---|
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark | <input type="checkbox"/> Estonia        |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany | <input type="checkbox"/> Greece         |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy   | <input type="checkbox"/> Latvia         |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta   | <input type="checkbox"/> Netherlands    |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Slovenia  | <input type="checkbox"/> Spain          | <input type="checkbox"/> Sweden  | <input type="checkbox"/> United Kingdom |

### 1.13 OTHER HOSTING COUNTRIES (WHERE THE PROJECT IS LOCATED)

### 1.14 IMPACTED ENERGY COMMUNITY CONTRACTING PARTIES

A country is considered impacted where the project is not located but where project's effects are significant

- |                          |                        |
|--------------------------|------------------------|
| <input type="checkbox"/> | Albania                |
| <input type="checkbox"/> | Bosnia and Herzegovina |
| <input type="checkbox"/> | Serbia                 |
| <input type="checkbox"/> | Kosovo*                |
| <input type="checkbox"/> | Montenegro             |
| <input type="checkbox"/> | FYR Macedonia          |
| <input type="checkbox"/> | Moldova                |
| <input type="checkbox"/> | Ukraine                |

\* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence.

### 1.15 IMPACTED EU MEMBER STATES

A country is considered impacted where the project is not located but where project's effects are significant

- |                                    |   |                                   |   |
|------------------------------------|---|-----------------------------------|---|
| <input type="checkbox"/> Austria   | <input type="checkbox"/> Belgium        | <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Croatia        |
| <input type="checkbox"/> Cyprus    | <input type="checkbox"/> Czech Republic | <input type="checkbox"/> Denmark  | <input type="checkbox"/> Estonia        |
| <input type="checkbox"/> Finland   | <input type="checkbox"/> France         | <input type="checkbox"/> Germany  | <input type="checkbox"/> Greece         |
| <input type="checkbox"/> Hungary   | <input type="checkbox"/> Ireland        | <input type="checkbox"/> Italy    | <input type="checkbox"/> Latvia         |
| <input type="checkbox"/> Lithuania | <input type="checkbox"/> Luxembourg     | <input type="checkbox"/> Malta    | <input type="checkbox"/> Netherlands    |
| <input type="checkbox"/> Poland    | <input type="checkbox"/> Portugal       | <input type="checkbox"/> Romania  | <input type="checkbox"/> Slovakia       |
| <input type="checkbox"/> Slovenia  | <input type="checkbox"/> Spain          | <input type="checkbox"/> Sweden   | <input type="checkbox"/> United Kingdom |

### 1.16 OTHER IMPACTED COUNTRIES

A country is considered impacted where the project is not located but where project's effects are significant

### 1.17 THE PECCI IN THE NATIONAL NETWORK DEVELOPMENT PLAN

	Contracting Party	Project code in NNDP	Project name	Year of publication in the NNDP	HTML link to NNDP



1					
2					
3					
4					
5					

### 1.18 RELEVANT COMPETENT AUTHORITIES

	Name of competent authority	Postal address of competent authority	Website of competent authority
1			
2			
3			
4			
5			

### 1.19 ARE THERE OTHER PROJECTS DEPENDING ON THE REALISATION OF THE PROJECT?

- Yes, please list the projects:  
 No

### 1.20 DOES YOUR PROJECT DEPEND ON THE REALISATION OF ANY OTHER PROJECT?

- Yes, please list the projects:  
 No

## 2 EVALUATION CRITERIA AND PERFORMANCE INDICATORS

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### A – CAPACITY OF TRANSMISSION AND DISTRIBUTION GRIDS TO CONNECT AND BRING ELECTRICITY FROM AND TO USERS

**2.1 INSTALLED CAPACITY OF DISTRIBUTED ENERGY RESOURCES (ANY GENERATION LOCATED AT THE POINT OF CONSUMPTION) IN DISTRIBUTION NETWORKS**  
 MW

**2.2 WHAT IS THE ALLOWABLE MAXIMUM INJECTION OF POWER WITHOUT CONGESTION RISKS IN BOTH THE DISTRIBUTION AND THE TRANSMISSION NETWORK ASSUMING NO ADDITIONAL INVESTMENT TO THE NETWORK?**

Transmission networks: MW

Distribution networks: MW

**2.3 WHAT IS THE AMOUNT OF ENERGY NOT WITHDRAWN FROM RENEWABLE SOURCES DUE TO CONGESTION OR SECURITY RISKS?**  
in GWh/year

**2.4 WHAT MEASURES ARE FORESEEN TO PREVENT CONGESTION OF THE NETWORK?**

**B – NETWORK CONNECTIVITY AND ACCESS TO ALL CATEGORIES OF NETWORK USERS**

**2.5 WHAT ARE THE FEATURES OF THE INVESTMENT PROJECT IN REGARDS TO THE OPERATIONAL FLEXIBILITY FOR DYNAMIC BALANCING OF ELECTRICITY IN THE NETWORK? E.G DEMAND SIDE MANAGEMENT/DEMAND RESPONSE**

**2.6 WHAT ARE THE METHODS ADOPTED TO CALCULATE NETWORK CHARGES AND TARIFFS, AS WELL AS THEIR STRUCTURE, FOR BOTH GENERATORS (IF APPLICABLE) AND CONSUMERS?**

**2.7 SMART GRIDS MAY HAVE A POSITIVE EFFECT ON “TIME TO GRID”. HOW LONG, ON AVERAGE, DOES IT TAKE TO CONNECT A NEW CONSUMER AND HOW IS IT EXPECTED TO CHANGE AFTER THE REALIZATION OF THE INVESTMENT PROJECT (PLEASE PROVIDE INFORMATION FOR THE CONNECTION OF GENERATION AND OF LOAD)?**

**C – SECURITY AND QUALITY OF SUPPLY**

**2.8 WHAT IS THE RATIO OF RELIABLY AVAILABLE GENERATION CAPACITY AND PEAK DEMAND?**

Reliably available capacity (MW):

Peak demand (MW):

**2.9 WHAT IS THE SHARE OF ELECTRICITY GENERATED FROM RENEWABLE SOURCES WHEN COMPARED TO YEARLY DEMAND AND YEARLY TOTAL GENERATION CONNECTED? PLEASE INDICATE THE LAST AVAILABLE THREE YEARS’ DATA.**

Share of renewable generation compared to yearly demand (%): ,

Share of renewable generation compared to yearly total generation (%):

**2.10 WHAT ARE THE MAIN FEATURES IN RELATION TO THE STABILITY OF THE ELECTRICITY SYSTEM EXPECTED FROM THE IMPLEMENTATION OF THE INVESTMENT PROJECT?**

**2.11 WHAT ARE THE EXPECTED DURATION AND FREQUENCY OF INTERRUPTIONS PER CUSTOMER, INCLUDING WEATHER RELATED DISRUPTIONS?**

Duration of interruptions per customer without project: hour/customer/year  
 Duration of interruptions per customer with project: hour/customer/year  
 Frequency of interruptions per customer without project: interruptions/customer/year  
 Frequency of interruptions per customer with project: interruptions/customer/year

**D – EFFICIENCY AND SERVICE QUALITY IN ELECTRICITY SUPPLY AND GRID**

**2.12 WHAT ARE THE EXPECTED LEVELS OF NETWORK LOSSES IN TRANSMISSION AND IN DISTRIBUTION NETWORKS?**

Transmission networks (GWh):  
 Distribution networks (GWh):

**2.13 THE DEMAND FOR ELECTRICITY VARIES THROUGHOUT THE DAY AND ACROSS SEASONS; SMART GRIDS CAN REDUCE THESE PEAKS AND OPTIMISE SYSTEM OPERATION. WHAT IS THE RATIO BETWEEN MINIMUM AND MAXIMUM ELECTRICITY DEMAND WITHIN A DEFINED TIME PERIOD?**

Average day in:	Minimum demand	Maximum demand	Expected minimum with investment	Expected maximum with investment
Unit	MW	MW	MW	MW
January				
April				
July				
October				

**2.14 WHAT ARE THE MAIN FEATURES OF THE INVESTMENT PROJECT IN RELATION TO DEMAND SIDE PARTICIPATION IN ELECTRICITY MARKETS AND IN ENERGY EFFICIENCY MEASURES?**

**E – CONTRIBUTION TO CROSS-BORDER ELECTRICITY MARKETS BY INCREASE INTERCONNECTION CAPACITIES**

**2.15 PLEASE DESCRIBE THE IMPACT OF THE INVESTMENT PROJECT ON CROSS-BORDER FLOWS AND THE INTERCONNECTION CAPACITIES AND PROVIDE AN ESTIMATE OF THE PORTION OF THE TRANSMISSION GRID IMPACTED BY THE INVESTMENT PROJECT**

### 3 TECHNICAL INFORMATION

**3.1 PLEASE DEMONSTRATE CLEARLY THE "SMART GRID DIMENSION" OF THE PROPOSED PROJECT (I.E. CLARIFYING WHY THE PROPOSED PROJECT CAN BE CONSIDERED A SMART GRID PROJECT) AND PROVIDE DETAILS OF THE SMART GRID FEATURES THAT WILL BE IMPLEMENTED BASED ON ARTICLE 4 OF THE IMPLEMENTED REGULATION 347/2013.**

	How does the project qualify in the following dimensions?
integration and involvement of network users with new technical requirements with regard to their electricity supply and demand;	
efficiency and interoperability of electricity transmission and distribution in day-to-day network operation;	
network security, system control and quality of supply	
optimised planning of future cost-efficient network investments;	
market functioning and customer services;	
involvement of users in the management of their energy usage;	

**3.2 PLEASE PROVIDE A SUMMARY OF THE PROJECT COMPLIANCE WITH THE TECHNICAL REQUIREMENTS SPECIFIED IN THE REGULATION PROPOSAL**

**3.3 FOR EACH OF THE TECHNICAL REQUIREMENTS REPORTED BELOW, PLEASE PROVIDE THE CORRESPONDING PROJECT VALUE AND DISCUSS IN DETAIL PROJECT COMPLIANCE**

Criteria	Required value	Analysis of project compliance	Project value in Euro (synthetic outcome of analysis of project compliance)
Voltage level(s) (kV):	>10kV		

Number of users involved (producers, consumers and prosumers):	>50,000		
Consumption level in the project area (GWh/year):	300 GWh/year		
% of energy supplied by non-Dispatchable resources (in terms of capacity)	>20%		
Projects involving transmission and distribution operators from at least two MS	at least 2 Member States		

### 3.4 BRIEF PROJECT DESCRIPTION

### 3.5 EXPECTED DATE OF COMMISSIONING (YEAR)

### 3.6 EXPECTED LIFETIME OF INFRASTRUCTURE (YEARS FROM COMMISSIONING)

## 4 EXPECTED COSTS OF THE PROJECT

---

### 4.1 PLEASE INDICATE TOTAL CAPEX OF THE PROJECT FOR EACH YEAR OF THE INVESTMENT PERIOD (INCLUDING MATERIALS AND CONSTRUCTION COSTS) IN 2016 REAL MILLION EUR

Calendar year										
Cost										

(Real 2016 million EUR)										
----------------------------------	--	--	--	--	--	--	--	--	--	--

#### 4.2 ESTIMATED VARIATION IN CAPEX (+/-%)

#### 4.3 EXPECTED ANNUAL OPEX OF THE PROJECT IN 2016 REAL EUR

Calendar year										
Cost (Real 2016 EUR)										

#### 4.4 HAVE YOU APPLIED FOR / DO YOU INTEND TO APPLY FOR OTHER FINANCING (EG. INSTRUMENT FOR PRE-ACCESSION ASSISTANCE OR NEIGHBOURHOOD INVESTMENT FACILITY)?

- Yes  
 No  
 Already applied for, level of support in million EUR:

## 5 STATUS AND PROGRESS

---

### 5.1 PLEASE INDICATE THE CURRENT STATUS OF THE PEI

Please tick all boxes that apply

- Consideration phase
- Planning approval
- Preliminary design studies
- Market test
- Preliminary investment decision
- Public consultation of Art.9(4) of Regulation 347/2013
- Permitting
- Financing secured
- Cross-border cost allocation request / decision
- Final investment decision taken
- Detailed design
- Tendering
- Construction
- Commissioning

### 5.2 PLEASE LIST THE MAJOR RISKS AFFECTING THE PROJECT

### 5.3 PLEASE GIVE AN INDICATIVE IMPLEMENTATION SCHEDULE AS OF 2016 JANUARY

	Start date (month, year)	End date (month, year)
Consideration phase		
Planning approval		
Preliminary design studies		
Market test		
Preliminary investment decision		
Public consultation of Art.9(4) of Regulation 347/2013		
Permitting		
Financing secured		
Cross-border cost allocation request / decision (if applicable)		
Exemption request / decision (if applicable)		
Final investment decision		
Detailed design		
Tendering		
Construction		
Commissioning		

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## 6 CONFIDENTIALITY

---

We require all data indicated in the questionnaire to conduct the welfare analysis and evaluation of the projects. All cost data submitted in the questionnaire is considered confidential and will only be used for the evaluation and not made public within the project reports as well as at any meetings of the working group; only aggregated cost data that does not allow to link the figures to individual investment projects may be presented in publications. All other submitted data and information is considered non-confidential unless if stated otherwise by project promoter.

Please list the number of the answers which you consider confidential and do not wish to disclose. Answers to questions which are not listed may be published on Energy Community website as part of the evaluation study.

---

## 7 CONTACT DETAILS

---

Please designate two contact persons who can be requested for clarifications and additional information if necessary.

	Primary contact	Secondary contact
Name of contact person		
Organisation		
Position		
Email address		
Phone number		

\* including country dialling code



## **5 ANNEX 2: MINUTES OF THE PHONE CONFERENCE 12.01.2016.**

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### **PARTICIPANTS:**

Violeta Kogalniceanu (Energy Community Secretariat)

Adam Cwetsch (DG Energy), Ádám Szolyák (DG Energy)

Daniel Grote (DNV GL)

Borbála Tóth (REKK), László Szabó (REKK), Péter Kotek (REKK)

### **AGENDA**

1. Discussion of the questionnaires
2. Timeline and work plan for the project (few slides attached)
3. Updates on Network modelling
4. Next steps

#### *1. Discussion of questionnaires*

Borbála: All questionnaires are sent for review to EnC and to the Commission. Thank you for the comments we received, they were all taken into account. Questionnaires are updated already, except for smart grid. Smart grid questionnaires are being reviewed by Commission until 18 January. Except for the smart grid, the final version of questionnaires will be sent to Violeta after the call.

Violeta: Questionnaires will have to be filled on-line. Tentative plan is to upload questionnaires by mid next week, with some small introductory text. Deadline for submission of questionnaires is 1 month. - All parties agree.

Adam: Technical issue of sharing questionnaires and other relevant documents, presentations, reports, etc. with group participants could go through the Commissions' CIRCABC system – ECAS account is needed for the sharing. He will organize that and distribute the details later.

Violeta: How do we incentivise them giving answer? How do we stress giving financial data?

Borbála: cost data is needed for CBA, we sign a confidentiality agreement for cost data.

The adapted regulation tells that for PECEI you need PCI label – not many of the projects have this label. We do not need to require this, otherwise the list will be too short. We would evaluate projects of mutual interest as well. We should explicitly note that to submit a proposal being a PCI is not a requirement, we will evaluate both. We will split to PECEI and project of mutual interest after the evaluation.

## 2. *Timeline and work plan for the project*

Violeta: Questionnaires are considered final. Text of the announcement is drafted and questionnaire is created online. ENC contacted project promoters, NRAs and ministries. One ministry official will be reimbursed and one NRA representative. ENTSOE and ENTSOG will be invited as well, a contact is needed. None of the countries affected are ENTSOG members, for ENTSOE some are not members. Adam: DG Energy wants both ENTSGOs to be involved and attending to meetings. Adam will provide contact details for ENTSGOs.

Violeta: REKK should prepare a draft terms of reference/mandate for the groups.  
Commission: We can come back to this later? It should be based on the previous experience. One should be drafted for electricity and gas.

2 groups will be created one for electricity and gas. Smart grid will be included in electricity group, oil projects will be included in gas group.

Communication:

First meeting Kick-off: 26<sup>th</sup> of February - discuss methodology, joined for gas and electricity

Second meeting – reschedule to 4 April – eligibility check is presented, if it is late April, then we have no time to evaluate. Commission: let us discuss this later. Violeta Please send feedback by Friday (2016.01.15) if the rescheduling is doable.

Third meeting beginning of July or end of June. After modelling before draft final report submission (15.07.2016). Violeta: we have a lot of discussion on modelling. We need time to schedule another meeting – later in July to have time to discuss. Tentative date: week starting 27 June

Regular phone/skype calls are to be held once every 3 week or as it is necessary.

## 3. Network modelling issues

László: we negotiate with a Macedonian academy of science team, model is fine but lacks latest network data. By the end of the week or early next week we will have the email to request data from ENTSOE. Commission – let's try first with ENTSOE then we can think about alternatives SECI group is a possibility but second best

Other:

Violeta: regulations are not really binding in the affected countries, they have to be adopted – EnC should start training workshops for implementation. This will be discussed in a separate phonecall.

## 4. *Next steps*

REKK

- will send the tender documents to the Commission (methodology will be discussed at a later stage)
- Sends final questionnaires to Violeta
- Sends inception report to Violeta by Friday
- Sends draft letter for ENTSOE data request (in two weeks)

Commission:

- sends ENTSOE and ENTSOG contact data to Violeta and consultants
- Sends feedback for the smart grid questionnaire
- Checks DG Energy availability for the proposed meeting days
- checks for technical possibility to host the PEGI and PMI files in a folder created in CIRCABC
- Thinks about ToR for the two Groups