



## Monitoring of PCIs 2018 - Electricity

Fields marked with \* are mandatory.

**Progress report for  
Projects of Common Interest (PCIs)  
pursuant to Article 5(4) of Regulation (EU) No 347/2013  
to be submitted by 31st March, 2018**

*Questionnaire for electricity transmission, smart grid and storage PCIs*

---

### **Use of the single reporting**

Pursuant to Article 5(4) of Regulation (EU) No 347/2013, project promoters of PCIs shall submit by 31 March an annual report to the relevant national Competent Authority(ies)[\*] and to the Agency. In order to relieve the reporting burden, the Agency and the Competent Authorities have signed a Memorandum of Understanding on PCI information exchange (“MoU”). The MoU allows promoters to submit the annual report via a single reporting service to the Agency, which will then transmit the report to the relevant national Competent Authority(ies), who are signatories to the MoU. For a list of Competent Authorities who signed the MoU, please refer to the background document for this questionnaire in the right-hand menu.

[\*] *The relevant Competent Authorities are the ones on whose territory the PCI is partly or fully located.*

Three national Competent Authorities, namely those of Germany, France and the Netherlands, have not signed the MoU with the Agency. Please note that the Agency shall not transmit any annual reports from promoters to these non-signing Competent Authorities. Therefore, in case one of these non-signing Competent Authorities is relevant for a PCI, project promoters shall need to submit their report directly to it.

*The non-signing Competent Authorities are the following:*

- *Bundesnetzagentur für Elektrizität, Gas, Telekommunikation, Post und Eisenbahnen (Germany),*
- *Ministère de l'Ecologie, du Développement Durable et de l'Energie (France)*
- *Ministerie van Economische Zaken (Netherlands)*

**Important:** the Irish Competent Authority (An Bord Pleanála) - in a reservation to the MoU advises project promoters to submit their annual reports for each project as is required by article 5.4 of Regulation (EU) No 347/2013 directly to An Bord Pleanála in addition to the use of the IT tool as operated by the Agency for the Cooperation of Energy Regulators.

Project promoters may also choose not to use the single reporting service. In this case, the report will need to be submitted in separate submissions to the Agency (via this online questionnaire) and also directly to any relevant national Competent Authority. Please note that the Agency will not forward the report to any Competent Authority in case the project promoter chooses to submit the report separately to the Agency and to the relevant Competent Authority(ies). Please be aware that the Agency shall be in no event liable to any person or entity for any direct or indirect loss or damage arising out of the non-transmission of the report to any of the relevant national Competent Authorities in this case.

Please indicate your choice by selecting one of the boxes below.

**\* 1 Please tick ONE of the following boxes:**

- I confirm that I would like to use the single reporting service provided by the Agency, and I agree that the Agency shall transmit my report in full without any alterations only to those relevant national Competent Authorities which have signed the MoU with the Agency. I am aware that the Agency shall not transmit my report to those relevant national Competent Authorities which have not signed the MoU with the Agency, and I confirm that I will also submit the report to these authorities. I confirm that my submission constitutes the report on the progress of the PCI indicated below pursuant to Article 5 (4) of Regulation (EU) No 347/2013.
- I confirm that I do NOT wish to use the single reporting service provided by the Agency. I am aware and I explicitly agree that the Agency shall not transmit any information to any relevant Competent Authority included in or related to my submission. I confirm that I will submit my report directly to all relevant Competent Authorities. I confirm that my submission constitutes the report to the Agency on the progress of the PCI indicated below pursuant to Article 5(4) of Regulation (EU) No 347/2013.

**Information sharing with the Directorate-General for Energy of the European Commission (DG ENER) and the Innovation & Networks Executive Agency (INEA)**

The information provided in this questionnaire will be shared with DG ENER and INEA for the purpose of monitoring the implementation of Regulation (EU) No 347/2013, unless differently indicated by the promoter. For this purpose, at the end of each section of the questionnaire you can indicate whether you do not agree that the information contained in that specific section is transmitted to DG ENER and INEA, and in such a case, you will be requested to provide the relevant reasons.

## Administrative details

---

\*2 Email address of the contact person:

mhowitt@storelectric.com

**Please note that some of the following questions are dependent to your replies to previous questions, and, therefore, their visibility may depend on a previous answer. In order to obtain the entire questionnaire please download a pdf version.**

**Please also note that all questions are mandatory (the red star mark indicated before some of the questions serve only for technical purposes).**

## 1. PCI identification

---

\*3 PCI number (No X.Y or X.Y.Z) in the 2017 Union list of PCIs as per EC communication of 24 November 2017:

Enter the PCI number as it appears in the 2017 Union list of PCIs. (The list is available for download below)

1.12.3

You can download the 2017 Union list of PCIs as per EC communication of 24 November 2017 here:

[2017 Union list of PCIs](#)

\*4 PCI name in the 2017 Union list of PCIs as per EC communication of 24 November 2017:

Enter the name of the project as it appears in the 2017 Union list of PCIs. (The list is available for download above)

Compressed air energy storage in Middlewich [currently known as "CARES"]

\*5 Please indicate whether the PCI is included for first time in a PCI list

- It is included for first time in a PCI list, hereinafter referred to as "new" PCI
- It was included in the 2015 PCI list, hereinafter referred to as "old" PCI

\*6 Please indicate whether the PCI is:

- Transmission PCI
- Storage PCI
- Smart grid PCI

\*7 ENTSO-E TYNDP 2016 cluster number (or numbers, in case different parts of the PCI belong to different TYNDP clusters):

NSOG 1.12

\*8 ENTSO-E TYNDP 2016 investment number (or numbers, in case the PCI includes multiple investments):

1022 CARES

\* 9 Is there any change regarding the PCI promoters compared to the data submitted in the ACER monitoring report 2017 (for "old" PCIs) or compared to the data which was provided to the Regional Groups during the PCI selection round 2017 (for "new" PCIs) ?

- Yes
- No

\* 10 Please provide the PCI promoter(s):

Enter the full legal name(s) of the promoter(s)

Storelectric Limited

\* 13 Please choose which of the following statements is true regarding the investment items of the PCI:

- All investment items of the PCI are fully included in the latest NDP(s) (National Development Plans) of all hosting EU Member States
- The investment items of the PCI are only partially included in the latest NDP of the hosting EU Member States (i.e. not all investment items of the PCI are included and/or not in all relevant NDPs)
- None of the investment items of the PCI are included in the NDP of any of the hosting EU Member States.

\* 14 Please provide the reasons why any of the investment items of the PCI are NOT included in the latest NDP of all hosting EU Member States.

The CARES project is two plants: 1 x 40MW, 160-200MWh and 1 x 500MW, 2.5GWh. The former is omitted in error from the list. The larger plant qualifies for PCI as being of sufficient size and voltage. As the smaller plant is a first-of-a-kind (FOAK), it needs to be built first in order to obtain project financing and full engineering (EPC) guarantees for the large plant; therefore the large plant depends on successful construction of the small plant. However the additional time requirement to build the small plant is small, as it is subject to local planning laws and to distribution grid connection. The original application was for both, and it was accepted that both are integral parts of a single PCI qualifying project. The total project size is therefore 540MW, 2.7GWh.

**15 Identification of the PCI investment items in the latest available National Network Development Plans.**  
 (Please fill in only if either (1) the project is a “new” PCI or (2) the project is an “old” PCI and there is some change compared to the 2017 PCI monitoring report.)

Please fill one row PER MEMBER STATE for cross-border infrastructure (e.g. for an interconnection investment item across two countries, one row for Member State “A” and one row for Member State “B” have to be filled in).

In case the PCI includes more than one investment item, please fill in one row per investment item (referred to as “investment index” in the ENTSO-E TYNDP) and per Member State. In case an investment item is cross-border, fill in one row for each Member State hosting the investment item.

In case a unique number or code for the project is not available, please provide the page and section of reference/description of the investment items in the LATEST available NDP.

In case the PCI or an investment item is not or no longer included in the NDP, please fill in “not included” in the column “Project code in the latest NDP”.

Final or draft NDP: Please indicate whether the latest NDP is in a draft format or it is already final (e.g. approved by the relevant authority) by stating “Final” or “Draft”.

	Investment index in the TYNDP	Member State	Project code in the latest NDP	Date of latest available NDP (Year/month)	Final or draft NDP	Date of first inclusion of the project in a NDP (Year)
1.	1.12.3	United Kingdom	1022	2016	2018	2016
2.						
3.						
4.						
5.						
6.						

\* 16 Did you submit an application file for the permit granting process before 16th November 2013?

According to Article 19 of the Regulation (EU) No 347/2013, in such a case the provisions of Chapter III of the Regulation "Permit granting and public participation" do not apply.

- Yes
- No

18 Please provide PCI website according to Article 9(7) of Regulation (EU) No 347/2013

Enter the link to the website of the PCI.

For projects of common interest in the permit granting process for which a project promoter has submitted an application file before 16 November 2013, the provision of Chapter III of Regulation (EU) No 347/2013 (incl. Article 9(7)) shall not apply.

<http://www.cares-pci.uk/>

\* 19 The information in Section 1 is going to be shared with DG ENER and INEA

- I agree
- I disagree (*Please provide the reasons below.*)

### 3. Public support

---

35 Did you apply for financial support from the Connecting Europe Facility (CEF) between 1st February 2017 and 31st January 2018 for "old" PCIs or at any time until 31st January 2018 for "new" PCIs?

In case of a PCI with several sections or promoters, where more than one answer is applicable for different sections or promoters, please select "other" and explain in the available box.

- Yes, we applied for CEF (for studies only)
- Yes, we applied for CEF (for works only)
- Yes, we applied for CEF (for studies and works)
- No, we did not apply for CEF
- Other (please specify)

37 Do you intend to apply for financial support from the Connecting Europe Facility until 31st January 2019?

If you already applied in February or March 2018, please also select "yes".

- Yes, for studies only.
- Yes, for works only.
- Yes, for studies and for works.
- No, we do not plan to apply.
- The promoter(s) have not decided yet.

38 Do you intend to apply for financial support from the Connecting Europe Facility between 1st February 2019 and 31st January 2020?

- Yes, for studies only.
- Yes, for works only.
- Yes, for studies and for works.
- No, we do not plan to apply.
- The promoter(s) have not decided yet.

39 Did you receive any financial support from funding programmes other than CEF at European, regional or national level for any part or section of the PCI between 1st February 2017 and 31st January 2018 for “old” PCIs or at any time until 31st January 2018 for “new” PCIs?

- Yes
- No

42 Do you intend to apply until 31st January 2019 for any funding programmes other than CEF at European, regional or national level for any part or section of the PCI?

If you already applied for a programme in February or March 2018, please also select “yes”.

- Yes
- No
- The promoter(s) have not decided yet

\*45 The information in Section 3 is going to be shared with DG ENER and INEA

- I agree
- I disagree (*Please provide the reasons below.*)

## 4. Technical information

---

**In this section please fill in the required information valid as of 31st January 2018.**

For PCIs for which the technical information requested in a field is not yet defined, please fill in "not yet defined" for text fields, and "0" for numerical fields.

### 4.1. PCI Technical Characteristics

\*47 Please indicate the category of the PCI.

Select "combined investments" in case the PCI comprises of more than one investment category.

In case of offshore cables with short onshore parts, please refer them as "offshore cables", and not as "combined investment".

- AC transmission line
- DC transmission line
- On-shore AC transmission cable
- On-shore DC transmission cable
- Off-shore AC transmission cable
- Offshore DC transmission cable
- Onshore substation
- Offshore substation
- Phase shifting transformer
- Back to back substation
- Transformer
- Reactive compensation device
- Combined investments
- Hydro-pumped storage
- Compressed air storage
- Electrochemical storage
- Smart grids

\* 49 Please indicate the Type of PCI

- New investment
- Current uprate
- Voltage upgrade
- Extension
- Replacement
- Mixed solution - mostly as new investment
- Mixed solution - mostly as reinforcement

50 Please indicate the installed generation power (MW) of the PCI

Note: If the PCI is an expansion of an existing installation, the power is the additional capacity provided by the PCI on top of the existing one.

MW

51 Please indicate the installed generation capacity (GWh) of the PCI:

Note: If the PCI is an expansion of an existing installation, the generation capacity is the additional generation capacity provided by the PCI on top of the existing one.

Gwh

52 Please indicate the net pumping power (MW) of the PCI (for hydro-pumped storage):

Please enter "0" for other than hydro-pumped storage PCIs.

MW

### 53 Starting and ending of the PCI

For each investment item included in the PCI, in each of the columns of the table below, please enter:

Invest. index: the investment item index as referred to in ENTSO-E TYNDP

Country 1: the country where the investment item begins

Substation 1: the corresponding substation

Country 2: the country where the investment item ends

Substation 2: the corresponding substation

the length (in case the investment item is a line or a cable) of the onshore part in Country 1

the length (in case the investment item is a line or a cable) of the onshore part in Country 2

if applicable (in case the investment item is a line or a cable) the length of the offshore part **(please fill in 0 in the "length" fields for other pieces of equipment)**

Nominal power: the nominal power of the investment item and the unit in MW for DC lines and cables, or the nominal power in winter in MVA for AC lines and cables, substations and other components

In case the PCI comprises only of pieces of equipment that are located in one country only, Country 2 fields should be left blank.

	Invest. index	Country 1	Substation 1	Country 2	Substation 2	Length (in km) of on-shore part in country 1	Length (in km) of on-shore part in country 2	Length (in km) of off-shore part	Nominal power
Investment item 1	1022	United Kingdom	Lostock Grid						40MW
Investment item 2	1022	United Kingdom	Carrington						500MW
Investment item 3									
Investment item 4									
Investment item 5									

## 4.2. Expected Increase of Transfer Capacity (only for transmission PCs)

56 Please fill in the requested data in the following table for those borders which are impacted by increase of transfer capacity.

Please identify for which border(s) the PCI provides an increase of cross-border grid transfer capability (GTC), and quantify this increase

Increase of cross-border grid transfer capability (GTC)

	Border (country A-country B)	Transfer Capacity increase in 2020 (MW)	Transfer Capacity increase in 2030 (MW)
* Border 1	0	0	0
* Border 2	0	0	0
* Border 3	0	0	0

59 If the provided transfer capacity is a cumulative increase of more PCIs, please list the other PCIs, and explain why the transfer capacity increase cannot be provided for each PCI separately.

60 In case you did not provide any indication of the transfer capacity increase, please explain why.

This is a storage project.

\* 61 The information in Section 4 is going to be shared with DG ENER and INEA

- I agree  
 I disagree (*Please provide the reasons below.*)

**If the PCI is "cancelled" you don't need to fill Section 5 and 6 of the questionnaire.**

**(Please fill the respective mandatory fields with 0 for number or text, 01/01/1900 for date fields and tick the first choice for single/multiple choice questions to be able to submit the questionnaire.)**

## 5. Actual and expected costs and benefits

---

### Important note

All costs reported in this section should be discounted to the present, i.e. to value of year 2018 (using a 4% discount rate (real), in line with the ENTSO-E CBA methodology).

### 5.1 Investment and lifecycle costs

**For the completion of Part 5.1 please note the following definitions:**

**Incurred Investment Cost:** All costs allocated to the project, for which an invoice (or other accounting document which proves the recognition of the cost) has been issued (for the purchase of materials or provided services).

**Additional Contracted Investment Cost:** It should include all costs in which promoters are committed to (e.g. tender and consequent contracts are signed, even if no invoices are issued yet or no payments are made yet) excluding the Incurred Investment Cost.

\* 63 **Incurred Investment Cost** for the PCI till 31st December 2017 (discounted value):

(According to the definition and instructions at the beginning of this Section)

In case 2017 accounting closure is not yet completed, please include an estimate.

0.2

 mln EUR

\* 64 **Additional Contracted Investment Cost** for the PCI till 31st December 2017 (discounted value):

(According to the definition and instructions at the beginning of this Section)

 mln EUR

0

\* 65 I consent to the publishing in the PCI report of the figure of the **expected total Investment Cost** of the PCI which was provided to the Regional Groups during the PCI selection round 2017.

- Yes  
 No

66 Please provide the substantiated reasons for not consenting

Please note ,that the reasons you provide may be published in the PCI report or its annexes.

This is a technical validation and initial optimisation study and not part of the plant design / construction. You have only asked for actual and contracted Investment Cost "till 31st December 2017": publication of this amount would distort perceptions as to the PCI expected total investment cost.

**Instructions for the completion of the following questions (expected variations of the Investment Cost):**

The presence of risks, contingencies and uncertainties may lead to a cost range. Please use: Upward variation = (upper value of cost range - cost estimate)/ cost estimate Downward variation = (cost estimate - lower value of cost range)/ cost estimate

67 Please provide the expected downward variation of the expected Total Investment Cost (%):

Please provide the expected downward variation of investment cost (%) to the expected cost as of 31st January 2018.

20 %

68 Please provide the expected upward variation of the expected Total Investment Costs (%)

Please provide the expected upward variation of investment cost (%) to the expected cost as of 31st January 2018.

10 %

69 Please indicate the main reason for the above mentioned expected variations of the Investment Cost:

- Project is in consideration stage, and cost estimates are rather uncertain  
 Project scope may change  
 Cost increase due to time overruns  
 Procurement / construction cost uncertainties  
 Exchange rates uncertainties  
 New technology is involved, resulting in higher uncertainties regarding project Investment Cost  
 Uncertainty regarding extra costs due to safety, environmental or legal requirements imposed during permit grating process  
 Other (please specify below)

71 Please provide the expected **annual** lifecycle cost (at a value of the commissioning year and excluding for storage PCIs the cost of power purchase needed for the operation of the plant).

Please include in the figure all the life cycle costs of the PCI (excluding CAPEX cost), including replacement of devices, dismantling and maintenance. For costs which are expected to be incurred once during the lifetime of the PCI, please distribute

them to 25 years (which is the lifecycle period considered according to the CBA methodology) and by respecting the CBA methodology rules.

mInEUR

72 Please provide the expected **annual** cost of power purchase needed for the operation of the plant (at a value of the commissioning year).

mInEUR

75 In case you would like to share any additional information regarding costs, you may provide it here:

The total estimated cost is £510m = €580m, but you only ask for actual and contracted costs "till 31st December 2017". The answers to 67 and 68 (expected variation in costs is -20%, +10%) is based on the €580m. It is possible that the total of exchange rate and other uncertainties may be greater than expected.

Regarding expected benefits, we believe that the Agency significantly underestimates them when we compare them with traditional CAES and pumped hydro projects. We suspect that those other projects' forecasts may be considerably rosier than ours, and that therefore it is not a like-for-like comparison.

## 5.2 Expected benefits

---

This year the Agency's analysis on the benefits will be based on the benefit data considered for PCI selection, since less than a year has elapsed since then. Therefore, promoters do not need to provide any projections on benefits in this questionnaire.

\*76 The information in Section 5 is going to be shared with DG ENER and INEA

- I agree  
 I disagree (*Please provide the reasons below.*)

## 6. Status, implementation and time progress

---

### 6.1 Current status

\*78 Please indicate the current status of the PCI:

(*In case of a PCI with several sections or elements which are in different status, **the status of the least advanced section or element determines the status of the overall PCI.***)

Please note the following definitions:

"**planned but not yet in permitting**" projects are those which have been included in the national development plan and completed the phase of initial studies (e.g. completed pre-feasibility or feasibility study), but have not initiated the permitting application yet;

"**permitting (permitting application)**" starts from the date when the project promoters applied for the first permit regarding the implementation of the project and the application is valid.

- Under consideration
- Planned, but not yet in permitting
- Permitting
- Under construction
- Commissioned
- Cancelled

## 6.2 Implementation Plan

In this section of the questionnaire, Project Promoters are required to provide the (actual or expected) start date and end date of each stage **valid as of January 31st, 2018**.

In case of a PCI with several sections or elements, the starting date of a certain stage of the overall PCI is defined by the **starting date of the earliest section/element**, and the ending date of a certain stage of the overall PCI is defined by the **ending date of the last section/element**.

\* 81 If any of the following two statements is true, please select the “yes” option.

- a) The project is a “new” PCI,
- b) The project is an “old” PCI and there are some changes or updates in the implementation plan (valid as of 31st January 2018) compared to the data submitted in the ACER monitoring report 2017.

- Yes
- No

**Please provide the new or updated implementation plan by filling the questions below.**

**If an implementation phase is not applicable, please fill in 01/01/1900 to the relevant fields.**

### 6.2.1 Consideration phase

*Consideration phase covers the planning studies (power flow and hydraulic simulations, pre-feasibility and feasibility, including the techno-economic analysis of the project) and consideration for inclusion in the national plan(s) and Regional Plans / EU-wide Ten Year Network Development Plan(TYNDP) of ENTSO-E.*

\* 82 Consideration phase start date (beginning of any pre-feasibility study for the PCI):

04/12/2017

83 Consideration phase end date:

30/03/2018

### 6.2.2 Planning approval

*Planning approval is the approval (at the level of national development planning) by the NRA or by the competent Ministry or national competent authority, as provisioned in the national law of each country.*

84 Planning approval start date (i.e. date of request):

*e.g. submission/ publication of draft NDP*

28/09/2018

\* 85 Planning approval end date (i.e. date of approval)

*e.g. approved NDP*

30/11/2018

### 6.2.3 Preliminary design studies

86 Preliminary design studies start date

30/04/2018

87 Preliminary design studies end date

30/08/2019

### 6.2.4 Front End Engineering Design (FEED) (if applicable)

88 Front end engineering design: start date

28/05/2018

89 Front end engineering design: end date

31/01/2020

### 6.2.5 Public Consultation of Art. 9(4) of Regulation (EU) No 347/2013 (if applicable)

90 Public Consultation of Art. 9(4) of Reg. 347/2013: start date

02/07/2018

91 Public Consultation of Art. 9(4) of Reg. 347/2013: end date

27/09/2019

### 6.2.7 Permit granting: Pre-application procedure

*Please provide start and end dates as defined in Article 10 (1) of Regulation (EU) No 347/2013. The start date of the pre-application procedure constitutes the start of the permit granting process.*

**“ATTENTION: THE START DATE CANNOT BE EARLIER THAN 16 NOV 2013”**

\*94 Pre-application Procedure: start date (i.e. date of acceptance of the project promoter's notification by the competent authority)

28/05/2018

95 Pre-application Procedure: end date (i.e. date of acceptance of the project promoter's application file by the competent authority)

28/06/2019

### 6.2.8 Permit granting: Statutory procedure

*Please provide start and end dates as defined in Article 10 (1) of Regulation (EU) No 347/2013.*

*The end date of the statutory procedure constitutes the end of the permit granting process.*

96 Statutory procedure: start date (i.e. date of acceptance of the project promoter's application file by the competent authority)

28/09/2018

\*97 Statutory procedure: end date (i.e. date of comprehensive decision)

30/07/2021

### 6.2.9 Environmental Impact Assessment request and approval

98 Environmental Impact Assessment request: start date

04/06/2018

99 Environmental Impact Assessment approval: end date

30/07/2021

### 6.2.13 Final investment decision (if applicable)

106 Date of the Final investment decision

01/03/2019

### 6.2.14 Detailed engineering design

107 Detailed engineering design: start date

14/05/2018

108 Detailed engineering design: end date

29/10/2021

### 6.2.15 Tendering for construction (if applicable)

*In case of a PCI with several tenders for a section, the start date of the overall PCI is defined by the start date of the first tender, and the end date by the end date of the last tender.*

109 Tendering for construction: start date

28/09/2018

110 Tendering for construction: end date

17/12/2021

### 6.2.16 Construction

\* 111 Construction: start date

01/03/2019

112 Construction: end date

26/06/2026

### 6.2.17 Commissioning

\* 113 Commissioning date

25/09/2026

114 Please provide any additional information you may deem necessary or useful with regard to the implementation plan of the PCI (e.g. permit granting, consultation procedures, commissioning date).

Because the project has two parts (the 40MW plant and the 500MW plant), the start date in each set of questions (pre-design, design, planning) is the start date for the first (40MW) and the end date is for the second (500MW), which again gives a very extended view of such matters. The small plant is under local planning frameworks and the large one under the Nationally Significant Infrastructure Projects (NSIP) planning framework.

Works performed by 31/1/18 are mostly for the smaller plant.

Note that a lot of the "construction time" is the time awaiting grid connection, and is wholly dependent on National Grid. We may delay the start

of construction of the large plant if the grid connection time is long, and vice versa, so we minimise cash flow delays: we don't want to have a plant built and lying idle for lack of a connection.

## 6.3 Works performed

### 115 Description of works and activities performed between 1st February 2017 and 31st January 2018:

Please select which of the following works were performed between 31 January 2017 and 31 January 2018 for "old" PCIs, or for "new" PCIs since the beginning until 31 January 2018. In case of a PCI with several sections or elements, please describe the works performed for all sections or elements. E.g. for a PCI that includes a part that is under construction and another part for which a feasibility study was conducted in the reporting period, both activities should be selected from the list.

- STUDY: environmental
- STUDY: spatial planning
- STUDY: technical feasibility
- STUDY: socio-economic feasibility
- Identification of alternative solutions / site identification
- Public consultation
- Preparation of permitting files, contracts and other documents
- Negotiations with landowners and land acquisition
- Detailed technical design
- Tendering
- Preparatory works for construction (e.g. land preparation)
- Construction
- Commissioning
- No activity was performed in the specified reporting period
- Other (please specify)

## 6.4 Time progress

*Please note that in this section the term "**investment rescheduled**" corresponds to an investment which is voluntarily postponed by a promoter due to changes of its external driver (e.g. lower demand, less urgent need for an investment due to updated planning data or priority to other transmission solutions).*

*The term "**investment delayed**" corresponds to an investment which is still needed at the expected date, but cannot be delivered on time due to various external factors like permitting, environmental, legislative reasons, etc.*

If the actual or expected commissioning date as of 31st January 2018 is later than the commissioning date provided in the TYNDP 2016 for "new" PCIs or the one indicated in the 2017 PCI monitoring report for "old" PCIs, the PCI should be reported either as "delayed" or "rescheduled." You may wish to provide any further clarification about the implementation / time progress of the PCI at the end of the questionnaire.

\* 117 Is the actual or expected commissioning date as of 31st January 2018 later than the commissioning date provided during the PCI selection round 2017 for “new” PCIs or the one indicated in the 2017 PCI monitoring report?

- Yes  
 No

### 6.4.3 Difficulties

#### Only for on time or ahead of schedule projects

\* 125 Has your PCI encountered any difficulties in the implementation of the PCI since 1st February 2016?

- Yes  
 No

126 If the answer to the previous question is “Yes”, please indicate if any of the following Difficulties were encountered

- PERMITTING - Difficulties due to environmental problems (including re-routing and/or siting or re-siting of facility(ies)). Environmental problems also include problems with cultural heritage authorities or any other authority that is involved in the environmental procedure
- PERMITTING - National law changes affecting permitting, including complexities with the implementation of the new legislation implementing Regulation (EU) 347/2013 for permitting
- PERMITTING - Difficulties in the preparation of necessary application files by the project promoter
- PERMITTING - Difficulties due to other permit granting reasons (different than law changes, environmental problems or preparation of application files). Please explain in the relevant question below
- Difficulties related to acquisition of or access to land
- Difficulties due to correlation with other delayed infrastructure investments (for transmission PCIs)
- Difficulties in tendering process
- Difficulties related to finalisation of agreements and coordination across borders (for transmission and smart grids PCIs)
- Difficulties related to finalisation of agreements with third party promoters (for transmission and smart grids PCIs)
- Difficulties in construction works
- Difficulties due to technological reasons (including any changes, re-routing and/or siting or re-siting of facility(ies) initiated by the PP)
- Difficulties due to financing reasons
- Difficulties due to risks related to the national regulatory framework or uncertainty of regulatory decisions
- Difficulties due to lawsuits and court proceedings
- Other

127 Brief description of the difficulties encountered (in particular if the answer "other" is selected in the previous question):

Delays in obtaining private funding, and the fact that zero public funding has been made available to date. This applies to study, design, echnology, development and construction funding. Each funding stream we have applied

for has rejected us because we should have applied for a different one - yet we have applied for all of them. And many UK and EU funding streams have rejected us because they don't see a need for large scale long duration (i. e. PCI qualifying) electricity storage.

#### **6.4.4 Measures taken and recommendations to resolve delays and difficulties**

128 Please describe the measures you took or foresee to take to solve delays or difficulties (if applicable)

Please note the followings:

Measure: brief description of the measure already taken or foreseen (or proposed) in the future.

Who took / should take the measure?: indication whether the Project promoter(s), NRAs, Competent Authorities, ministries or other party took or should take the indicated measure to solve delays or difficulties

Consequence of the taken measure: if applicable, indication of the consequence of the measure already taken

	Measure	Taken or foreseen?	Who took / should take the measure?	Consequence of the taken measure
1.	Proceed in slow steps on the smaller plant alone, using private funding only	Taken	Storelectric	Slowing the entire project (so far, by 3 years) because the risk appetite for investors is very low because it's a First-of-a-Kind plant - even though it's built entirely with well proven equipment and subsystems at similar scales and load cases.
2.	Keep pursuing the only funding stream that recognises the need for large scale long duration storage - the PCI scheme	Taken	Storelectric	Slowing the project by 3 years so far because it's such a long process. Significant administrative load.
3.				
4.				

129 In case you have any additional information regarding the implementation/ time progress of the PCI, you may provide it here:

Slowing the project by 3 years so far because it's such a long process. Significant administrative load because (a) PCI systems don't seem to cope with a 2-part project and (b) the delays in receiving funding mean that dates have to be revised every time they're requested. Had the PCI process approved the project on first application, we would have been on the verge of commissioning the small plant by now, with the detailed design completed planning application submitted for the large one.

\* 130 The information in Section 6 is going to be shared with DG ENER and INEA

- I agree  
 I disagree (*Please provide the reasons below.*)

## Background Documents

[Delegating\\_act\\_PCI\\_list\\_2017\\_dr.pdf \(/eusurvey/files/f523d461-3277-47f7-b274-efa0651d878a\)](/eusurvey/files/f523d461-3277-47f7-b274-efa0651d878a)

[FAQ\\_PCI\\_monitoring\\_27022018.pdf \(/eusurvey/files/1803978f-73a8-4420-8d0c-68e69cc5ed74\)](/eusurvey/files/1803978f-73a8-4420-8d0c-68e69cc5ed74)

[MoU\\_on\\_PCI\\_information\\_exchange.pdf \(/eusurvey/files/4179c208-9621-4bfd-9e00-5814f1c467e7\)](/eusurvey/files/4179c208-9621-4bfd-9e00-5814f1c467e7)

---

## Contact

Ele-PCI-Monitoring@acer.europa.eu

---