



Brussels, xx February 2015

**Guidelines on equal treatment and transparency criteria
to be applied by ENTSO-E when developing its TYNDP
as set out in Annex III 2(5) of Regulation (EU) No
347/2013**

*Disclaimer: This is a first draft of the EC guidelines as
presented in the ENTSO-E workshop on 25 February
2015.*

The final version is expected end of March 2015

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1. OBJECTIVE OF THE GUIDELINES

The present Staff Working Document, "Guidelines on equal treatment and transparency criteria to be applied by the European Network of Transmission System Operators (ENTSO) for Electricity when developing its Ten-Year Network Development Plans (TYNDP)" ('the Guidelines'), is an explanatory document prepared by the European Commission services ('the EC') and responds to the provisions of the Regulation (EU) No 347/2013 of the European Parliament and of the Council of 17 April 2013 on guidelines for trans-European energy infrastructure and repealing Decision No 1364/2006/EC and amending Regulations (EC) No 713/2009, (EC) No 714/2009 and (EC) No 715/2009 ('TEN-E Regulation).

The specific provision is stipulated in Annex III 2.5, focusing on the process for establishing regional lists within the process of identification of Projects of Common Interest ('PCIs'): "By 16 January 2014, the Commission shall issue Guidelines on criteria to be applied by the ENTSO for electricity and the ENTSO for gas when developing their respective 10-year network development plans referred to in points (3) and (4), in order to ensure equal treatment and transparency of the process."

The TYNDP for Electricity is the most comprehensive and up-to-date pan-European reference for the transmission electricity network. It presents and assesses all relevant pan-European projects under a specific timeframe defined by the analysed scenarios. The TYNDP is a biannual report published every even year by the European Network of Transmission System Operators for Electricity (ENTSO-E) and acts as a basis to derive the list of Projects of Common Interest (PCI) following its publication.

The Guidelines explain the legal framework applying to the elaboration process of the Ten-Year Network Development Plan for electricity. The Guidelines aim at facilitating the revision¹ and the implementation of the procedures to be used by ENTSO-E and all involved project promoters within its exercise. They also aim at establishing already a certain structure, content and certain principles that would subsequently ensure consistency with the correspondent Guidelines to be applied by the European Network of Transmission System Operators for Gas (ENTSO-G). At the same time, this approach would also ensure an uniform interpretation of the applicable principles and rules.

However, only the text of the TEN-E Regulation is legally binding.

The Guidelines are addressed to all interested promoters which are planning to develop an electricity transmission infrastructure project that is entirely or in part situated in at least one country represented within ENTSO-E and is considered as of pan-European significance, as defined in chapter 3.2. The guidelines are also addressed to the storage promoters planning to develop storage projects within EU and respect the technical limitations as per Annex II of the Regulation and defined in chapter 3.2.

¹ On the basis of the ENTSO-E Procedure on the Inclusion of Third Party Projects – Transmission and Storage - in the 2014 Release of the TYNDP, published on 23 September 2013: https://www.entsoe.eu/Documents/TYNDP%20documents/Third%20Party%20Projects/130923_New%203rd%20parties%20procedure_FINAL.pdf

In order to comply with the Regulation (EU) 347/2013 Annex III.3 (3) and (4) which mandates the TYNDP as being the basis to derive the PCI list, and the present guidelines, **the ENTSO for electricity shall, under the supervision of ACER:**

- Organise for the compilation of its TYNDP a transparent and non-discriminatory process to identify and include all relevant pan-European transmission and storage projects, indifferent of their promoter status (ENTSO-E or non-ENTSO-E Member) in the community wide report. (See § 3 of the present Guidelines for related provisions).
- Advertise the TYNDP process, consult stakeholders at critical decision making milestones, and ensure stakeholders buy-in. (See §4 of the present Guidelines for related provisions)
- Ensure a fair and non-discriminatory privileged access of project promoters to information regarding their project assessment, from the project application to finalisation of the TYNDP. (See §5 of the present Guidelines for related provisions).

All future methods, tools and timelines to be used by ENTSO-E within the process of elaborating their TYNDP will be drafted and will operate in line with the requirements of the TEN-E Regulation and these Guidelines. Furthermore, it is expected that all existing procedures will be aligned with the Guidelines not later than within one year following the adoption of the latter.

2. LEGAL FRAMEWORK OF THE TEN-YEAR NETWORK DEVELOPMENT PLAN (TYNDP)

The Ten-Year Network Development Plan for electricity is prepared by ENTSO-E pursuant to Article 8 of the Regulation (EC) No 714/2009 of the European Parliament and of the Council of 13 July 2009.

The non-binding Community-wide ten-year network development plan is to be adopted and published every two years and will include the modelling of the integrated network, scenario development, a European generation adequacy outlook and an assessment of the resilience of the system. The TYNDP will build on national investment plans, taking into account regional investment plans and, if appropriate, Community aspects of network planning.

Regarding cross-border interconnections, it will also build on the reasonable needs of different system users and integrate long-term commitments from investors, it will identify investment gaps.

Pursuant to Article 9 of the Regulation (EC) No 714/2009, within its monitoring responsibilities, the Agency for the Cooperation of Energy Regulators (ACER) shall issue a duly reasoned opinion on the draft TYNDP and recommendations to ENTSO-E within two months from the day of receipt. The opinion of the Agency will cover the compliance of the draft with the principles of non-discrimination, effective competition, the efficient functioning of the market or a sufficient level of cross-border interconnection open to third-party access.

Within the process of preparing the TYNDP, ENTSO-E shall conduct an extensive consultation process, as set in Article 10. The consultation shall be conducted "at an early

stage and in an open and transparent manner, involving all relevant market participants, and, in particular, the organisations representing all stakeholders, in accordance with the rules of procedure referred to in Article 5(1)2. That consultation shall also involve national regulatory authorities and other national authorities, supply and generation undertakings, system users including customers, distribution system operators, including relevant industry associations, technical bodies and stakeholder platforms. It shall aim at identifying the views and proposals of all relevant parties during the decision-making process. All documents and minutes of meetings related to the consultations referred to [...] shall be made public."

The TEN-E Guidelines, under which the process of identification of Projects of Common Interest (PCI) is established, sets in its Recital 21 and Annex III, 2(3) the inclusion of candidate transmission and storage projects into the TYNDP as a pre-condition in view of their inclusion in the second and subsequent Union-wide PCI lists. Thus, the formal role of the TYNDP in European electricity system development was further strengthened, as the latest available ENTSO-E TYNDP is mandated as the basis of selection of electricity PCIs.

In line with this regulation, the TYNDP process was updated in order to include both projects promoted by transmission system operators (TSOs) and third party projects (promoted by non-ENTSO-E members) that prove to bring benefits of pan-European significance and that are entirely or in part situated in at least one country represented within ENTSO-E.

3. PROCESS FOR PROJECT INCLUSION IN THE TYNDP

Project inclusion in the TYNDP must obey transparent and non-discriminatory principles, applying to both ENTSO-E and project promoters, detailed hereafter.

The Guidelines apply for both transmission and storage projects, with distinctive features limited to their different nature.

In case a project promoter is wishing to participate in the PCI process, as a first step the project must be incorporated and assessed in the latest available TYNDP (e.g. for the PCI Y+1 list it shall be part of the TYNDP Y).

3.1. Overall TYNDP schedule

In order for ACER to express their Opinion on the TYNDP year Y by December Y, the draft TYNDP must be consulted upon in Summer Y, and all candidate projects must be known in September Y-1, one year before.

In order to ensure a fair and non-discriminatory opportunity to all project promoters to propose their project for a CBA assessment in the TYNDP, and keep an overall

² ENTSO-E's rules of procedures on the consultation of other stakeholders were set in the document "ENTSO-E Consultation Process", 2011 edition, of 28 June 2011: https://www.entsoe.eu/fileadmin/user_upload/library/consultations/110628_Consultation_Process_Description.pdf

consistency, ENSTO-E shall collect and validate all project applications in a timely manner, involving

- a 1-month application window to identify all candidate projects;
- a 1-month consistency check period to ensure all applications are valid and a mutual understanding about the project data between ENSTO-E and every project promoter;
- a 2-month public consultation; before
- the formal validation of the TYNDP project list.

3.2 Application process to the TYNDP

ENTSO-E shall open a 1-month window to enable project promoters to apply, advertised on the ENTSO-E website.

ENTSO-E shall provide the practical details to all interested project promoters to give them all means to apply.

Candidate projects promoters shall demonstrate their credit by meeting the regulatory requirements described in § 3.3.

Candidate projects shall meet the technical requirements of projects of pan-European significance described in §3.4.

The TYNDP represents the only pan-European transmission planning platform allowing a consistent assessment of all proposed solutions considering the interdependencies between projects. In order to ensure a level playing field between the proposed projects in terms of correctly evaluating these interdependencies, maintaining a realistic outlook of the future transmission grid, and gathering the necessary data for the projects' CBA assessments, project promoters shall provide to ENTSO-E the documentation described in Appendix 2 to the Guidelines.

Project promoters shall develop their best effort to provide all required documentation for the application period. The documentation must be complete by the end of the consultation period and no project can be part of the validated TYNDP project list without the proper documentation.

Promoters of projects already included in the previous TYNDP must officially claim their wish for a new assessment in the TYNDP to be carried out. However, a previous application under present Guidelines rules or the rules applying for the inclusion to the TYNDP 2014 allow for a simplified application process, as described in the following sections.

3.3. Legal criteria regarding projects promoters

Project promoters can fall under the following categories:

- A. Promoter of transmission infrastructure projects within a regulated environment** according to Regulation (EC) No 714/2009, which can be either:
 - A.1.** a promoter who holds a transmission operating license and operates in a country represented within ENTSO-E (such as ENTSO-E members)
 - A.2.** a promoter who holds a transmission operating license and operates in a country not represented within ENTSO-E; or
 - A.3.** any other promoter scheduled to operate within a regulated environment (such as OFTOs under the Offshore Transmission Regime in Great Britain).

- B. Promoter of transmission infrastructure projects within a non-regulated environment:** promoter of which investments can be exempted in accordance with Article 17 of Regulation (EC) No 714/2009 (referred to as “merchant lines”).

- C. Promoters of storage projects.**

The project promoters must fulfil the following conditions to apply³:

For the promoters under the category A.1 (ENTSO-E members):

- a. The project promoter is registered as a licensed transmission system operator in one of the 34 countries of the ENTSO-E perimeter (0);
- b. the assets of the project promoter or its shareholders shall amount to at least 1 million euros (0); and
- c. the project promoter has the technical expertise to realise the project by its own or by using subcontractors (0); and
- d. Every candidate project must satisfy at least one of the following conditions (0):
 - i. The project has already received the PCI label.
 - ii. The project has been assessed in the previous TYNDP;
 - iii. The project is listed in the National Development Plan (validated by the corresponding NRA);
 - iv. The project stems from ENTSO-E joint exploratory pan-European studies (e.g. Regional Investment Plans, eHighways, etc.);
 - v. The corresponding NRA backs up explicitly the proposed project.

For the promoters under the category A.2 (TSOs outside ENTSO-E area):

- e. The project promoter shall be registered as transmission system operator in the country in which it acts as a national monopoly (0P); and

³ The (0) attached to every provision indicates that no dedicated evidence regarding the provision is not required from the project promoter; the (0P), that dedicated evidence regarding the provision is required only for projects new in the TYNDP, i.e. no evidence regarding the provision is required for a candidate project already assessed in the previous TYNDP; (ND), that evidence regarding the provision must be provided by the project promoters to ENTSO-E in all cases.

- f. The assets of the project promoter or its shareholders shall amount to at least 1 million euros (OP); and
- g. the project promoter has the technical expertise to realise the project by its own or by using subcontractors (OP); and
- h. The project promoter, in case of cross-border infrastructure, shall:
 - i. have a common signed agreement with the concerned TSO/s who is/are member/s of ENTSO-E, regarding the development of the submitted project (OP); or
 - ii. have a signed agreement between the ministries or between the regulators of the impacted countries that recognizes the potential benefit of that project (OP).

For the promoters under the category A.3 and B (“non-licensed” TSOs):

- a. the project promoter shall be a registered undertaking or a subsidiary of a registered undertaking that has been in existence for at least one year before the date of submission (OP); and
- b. the assets of the undertaking or its shareholders shall amount to at least 1 million euros (OP); and
- c. the shareholder structure of the undertaking shall be in line with the unbundling rules set for the non-regulated lines (ND);
- d. the project promoters has the technical expertise to realise the project by its own or by using subcontractors (OP); and
- e. if a project promoter is proposing a project between a non-EU/non-EEA⁴ country and an EU/EEA country it shall provide an agreement between the impacted ministries or regulators that recognizes the potential benefit of the project (OP); and
- f. satisfy at least one of the following conditions (OP):
 - i. the promoter shall have requested the impacted ENTSO-E TSOs to perform the prefeasibility/feasibility study at least 6 months before applying for the inclusion in the TYNDP; or
 - ii. the promoter shall have a signed agreement with the impacted ENTSO-E TSOs to perform the prefeasibility/feasibility study; or
 - iii. the promoter shall have a prefeasibility/feasibility study performed or approved by the impacted ENTSO-E TSO/s; or
 - iv. the promoter shall have a signed agreement between the ministries or between the regulators of the impacted countries that recognizes the potential benefit of that project; or
 - v. the promoter shall have applied (through the NRA) for the exemption to the EC according to art. 17 of Reg. (EC) 714/2009; or
 - vi. the project has already had received the PCI label.

For the promoters under the category C (storage project promoters)

- a. the project promoter shall be a registered undertaking or a subsidiary of a registered undertaking that has been in existence for at least one year before the date of submission (OP); and
- b. the assets of the undertaking or its shareholders shall amount to at least 1 million euros (OP); and

⁴ European Economic Area

- c. the undertaking has the technical expertise to realise the project by its own or by using subcontractors (OP); and
- d. the undertaking shall satisfy at least one of the following conditions:
 - i. the promoter shall have requested the impacted ENTSO-E TSOs to perform the prefeasibility/feasibility study at least 6 months before applying for the inclusion in the TYNDP; or
 - ii. the promoter shall have a signed agreement with the impacted ENTSO-E TSOs to perform the prefeasibility/feasibility study on connecting storage plant to the grid, at least 6 months before applying for the inclusion in the TYNDP; or
 - iii. the promoter shall have a performed prefeasibility/feasibility study on connecting to the grid by the impacted ENTSO-E TSO/s or a prefeasibility or feasibility study on connecting the storage unit to the grid approved by the impacted ENTSO-E TSO/s; or
 - iv. the promoter has a signed connection agreement with the impacted TSO; or
 - v. the project has already received the PCI label

3.4. Technical criteria regarding candidate projects

The TYNDP assesses projects of pan-European significance⁵. Candidate projects to a CBA assessment in the TYNDP must fulfil the corresponding technical criteria described hereafter:

Technical criteria regarding transmission projects

- a. the main equipment is a high-voltage overhead transmission line designed for a voltage of 220 kV or more, or an underground and submarine transmission cable designed for a voltage of 150 kV or more, at least partially located in one of the 34 countries represented within ENTSO-E; and
- b. the project increases the Grid Transfer Capability increase (GTC) at a network boundary⁶ within the ENTSO-E interconnected network ; and
- c. The GTC (expressed in MW) meets at least one of the following minimums:
 - at least 500 MW of additional NTC⁷, with the exception of cross-border projects where no additional NTC threshold is imposed; or
 - connecting or securing output of at least 1 GW/1000 km² of generation; or
 - securing load growth for 10 years for an area representing consumption greater than 3 TWh/year.

Technical requirements regarding storage projects:

- a. the project shall be an electricity storage facility used for storing electricity on a permanent or temporary basis in above-ground or underground infrastructure or geological sites, at least partially located in one of the 34 countries represented within

⁵ A project of pan-European significance is defined within the TYNDP process as a set of extra high voltage assets matching the criteria described under §3.4.;

⁶A boundary represents one section of the grid between one area and another (price zone, area within a country or a TSO), or several sections of the grid sharing the same concern, across which it appears relevant to assess grid transfer capability values (in order to auction capacity, to advertise the possibility of new generation connection upstream, or to communicate on securing load growth for several years downstream).

⁷ Net Transfer Capacity, across a border between two formal market areas.

- ENTSO-E, and directly connected to the high-voltage transmission lines designed for a voltage of 110 kV or more⁸;
- b. the project shall provide at least 225 MW installed capacity and has a storage capacity that allows a net annual electricity generation of 250 GWh/year⁹.

4. CONSULTATION PROCESS

The compilation of the TYNDP Projects List must enable all interested project promoters to apply and all stakeholders to provide feedback in order to ensure the completion of the TYNDP Projects List, and the consistency of all projects' technical details.

The ENTSO for electricity must therefore implement a transparent and non-discriminatory process to finalise the TYNDP Projects List, and ensure:

- the public advertisement of the present draft Guidelines, schedule, and all subsequent procedures and tools so that they can build on stakeholders' feedback, and especially from would-be project promoters and the ENSTO-E Network Development Stakeholders Group (NDSG) ;
- the public advertisement of final Guidelines, schedule, and all subsequent procedures and tools imposed on project promoters so that all applicants are identified early in the process;
- the compilation of the draft TYNDP Projects List, reporting to ACER and the Network Development Stakeholders Group (NDSG, acting as an ethical committee), and demonstrating non-discrimination towards project promoters according to the present Guidelines and ensuring consistency of all applications;
- the public advertisement and consultation about the draft TYNDP Projects List;
- the finalisation of the TYNDP Projects List reporting to ACER and the NDSG, acting as an ethical committee;
- the publication on its web-site of the final TYNDP Projects List and the comments received during the consultation, before entering the CBA assessment phase.

5. PROJECT PROMOTERS RIGHTS

5.1 ACCESS TO AND USAGE OF TECHNICAL DATA

Under the present guidelines, project promoters deliver to ENTSO-E a number of confidential or commercially sensitive information.

ACER and the EC may access if deemed necessary the entire project data submitted to ENTSO-E within the TYNDP process.

The technical input will be used by the ENTSO-E to run the CBA assessment of the submitted projects and deliver the TYNDP. The legal documents will be solely used by ENTSO-E to ensure compliance with the legal criteria defined herein. All the data

⁸ Regulation (EU) No 347/2013, Annex II.1. (c).

⁹ Regulation (EU) 347/2013, Annex IV.1. (b)

received by ENTSO-E under the current procedure is bound to be treated as confidential by ENTSO-E and its members (under the art. 35, Internal Regulation of ENTSO-E¹⁰).

To avoid any misuse of the received data, ENTSO-E commits to keeping the confidentiality of all the received information with the exception of:

- i. Data that concerns the general description of the project which will be published in the TYNDP table of projects. The level of detail is identical with the information unclosed for ENTSO-E TSO projects. It relates to: project promoter, substations' names, voltage level, type of technology, km of line/cable, single/double circuit, expected date of commissioning and the present status of the project.
- ii. The results of the project assessment according to the CBA methodology
- iii. The location on the TYNDP maps.

Unless they are already public, other technical data will not be published by ENTSO-E, ACER or EC.

5.2 UPDATE OF TECHNICAL DATA

In case the information is incorrect, incomplete with respect to the Guidelines, or if the project has been updated meanwhile, the project promoter must report the required changes to ENTSO-E.

Updates of project information shall be dealt with in the following manner:

1. From the initial application until the end of the consistency check period, information updates shall be submitted by the project promoter to ENTSO-E. No public record of such changes need to be reported in this early phase of application;
2. During the TYNDP Projects List open consultation, information updates shall be provided and officially recorded as a comment to the consultation.
3. After the consultation ends, and before the TYNDP Projects List is validated, information updates shall be sent via e-mails to ENTSO-E under the supervision of EC and ACER (see Appendix 1). ENTSO-E shall make its best efforts to account for project data updates in the TYNDP Project List and its base datasets, but is not liable if any proposed data update cannot or is not eventually implemented if the amendment would put the assessment process at risk. The proposed information update is published along with the remarks received during the consultation.
4. Once the TYNDP Projects List is validated, information updates shall be sent via e-mails to ENTSO-E under the supervision of EC and ACER (see Appendix 1). ENTSO-E shall make its best efforts to account for project data updates in the CBA assessment of that specific project, but is not liable if any proposed data update cannot or is not eventually implemented if the amendment would put the assessment process at risk. Information updates received after the validation of the TYNDP Project List and before the finalisation of the TYNDP report will be reported in the TYNDP report, with an explanation about their implementation of not in the CBA assessment process.

¹⁰https://www.entsoe.eu/fileadmin/user_upload/library/Association/110628_ENTSO-E_Internal_Regulations_wt_TC.pdf

Information updates and consultation comments received after the consistency check period and before the validation of the TYNDP Project list may contradict each other. ENTSO-E will check the consistency of the TYNDP Project List before its validation, and as the case may be, debate and conclude with the involved parties under the supervision of EC and ACER (see Appendix 1).

ENTSO-E shall account for the CBA assessment phase for all the projects submitted and updated by the time the TYNDP Projects List is validated.

Late submission of information, especially after the TYNDP Project List is validated, may jeopardise the CBA assessments of projects. ENTSO-E shall make its best efforts to account for project data updates to compute the most up-to-date assessments, but is not liable if any proposed data update cannot or is not eventually implemented if the amendment would put the assessment process at risk, that is for instance when the project data update impact other project assessments; or when the CBA assessment is performed and cannot be recomputed without distracting resources and endangering the TYNDP deadlines.

All ENTSO-E decisions about project information updates shall be motivated, at least basically with the reason behind accepting or not accepting the requested changes, and shared with the concerned project promoters in written by e-mail under the supervision of EC and ACER (see Appendix 1).

5.3. ACCESS TO ASSESSMENT RESULTS

ENTSO-E shall deliver to the project promoters one month and half in advance of the TYNDP report consultation their project specific assessment results based on the Cost Benefit Analysis methodology. If deemed necessary, a bilateral meeting between ENSTO-E and the project promoter can be organised, in order for the promoter to better understand their project assessment results.

In case specific project information is to be used in any of the ENTSO-E events (e.g. regional workshops), ENTSO-E is requested to inform two weeks in advance the project promoters.

As long as specific information for project is not unveiled, ENTSO-E can publish aggregate or general results during public events.

Beyond the results published in the TYNDP report, every project promoter is entitled to access more advanced results, as far as they are available to ENTSO-E in the framework of the assessment process.

Every two months, ENTSO-E shall release to ACER, EC and project promoters a status report about the assessment of all projects. Every project promoter can ask ENTSO-E for more detailed information about their own project.

5.4. RIGHT TO REQUEST A REVIEW AND THE TREATMENT OF CONFIDENTIAL DATA

Project promoters are advised to attend public workshops and enter a regular relationship with ENTSO-E in order to be fully informed of the progress of the TYNDP process.

Project promoters are advised to exchange emails with ENTSO-E and EC according to the provisions set forth in Appendix 1, ensuring transparency of this mail and easing dispute resolution.

In case of disagreement with ENTSO-E decision, the project promoter shall inform the EC (see Appendix 1). In case the EC, ENTSO-E and the promoter do not find an accepted solution, the project promoter has the right to ask ACER to carry out a review of the assessment and to take the final decision considering the ENTSO-E and promoters' justifications.

In the framework of the PCIs process, if a project promoter is not satisfied with any of EC's decision or reaction, he can appeal to the ACER officer supervising the process. The decision of the ACER officer is final.

CONCLUSION

To be summarised

Appendix 1: persons in charge

E-mails from project promoters to ENTSO-E (in the framework of the TYNDP process) or EC (in the framework of the PCIs process) must be sent to¹¹:

Action	ENTSO-E	EC	ACER
TYNDP process			
Project submission phase (from Apr/15 to Sept/15)	ENTSO-E representative	(Cc)	(Cc)
Project assessment phase (from Oct/15 to Dec/16)	ENTSO-E representative	(Cc)	(Cc)

Appendix 2: required documentation

(to be checked and finalised)

Transmission projects

For the promoters under the category A.2:

a. Technical description:

¹¹ The names and contact data (e-mail and telephone number) of the persons in charge within ENTSO-E, the EC and ACER will be communicated to all project promoters immediately after any changes or updates occur, in order to ensure transparency and equal treatment;

The technical description required is described in the present document.

b. Legal documentation:

- i. the operating license from the relevant authority (Ministry/NRA) from the country the promoter operates; and
- ii. the signed common agreement with the concerned TSO/s who is/are member/s of ENTSO-E, regarding the development of the submitted project; or
- iii. the signed agreement on the project proceeding between the ministries or between the regulators of the impacted countries.

For the promoters under the category A.3. and B:

a. Technical description:

- i. a brief technical description of the projects: technology (AC/DC) and voltage level of main equipment; end-substations, km of route; and
 - ii. the motivation for the project, including a qualitative description of the investment need that the project addresses and the project's role in supporting at least one of the 3 pillars of EU energy policy (market integration, sustainability, secure system operation); and
 - iii. an assessment of the increase in the Grid Transfer Capability which the project will enable, expressed in MW; and
 - iv. a project status, indicating whether the project is in the consideration phase (prefeasibility/feasibility studies), design & permitting phase or under construction; and
 - v. the expected commissioning date; and a timeline of the implementation plan including pre-feasibility and feasibility studies, engineering design, exemption and permitting procedures, manufacturing, construction and commissioning, and
 - vi. in case of being included in the previous TYNDP, explain the progress made since the last application and the reasons for changing the main characteristics, status or commissioning date of the project
 - vii. the investment cost of the project; and
 - viii. **electro-technical parameters of the project which are necessary to model the proposed investment in the network studies:**
 1. **For an alternating current (AC) infrastructure:** connection points (substations name), nominal voltage, type of conductor, nr/phases, resistance (R), reactance (X), conductance (B), thermal limit (Imax), km of the whole route (for a line/cable), km of the route to each border, if the infrastructure is a tie-line. The template table will be made available on the ENTSO-E website at the date of publication of the present procedure;
 2. **For a direct current (DC) infrastructure:** connection points (substations name), type of conductor, type of converters (VSC/LCC), nominal voltage, capacity, km to each border if the infrastructure is a tie- line, thermal limit (Imax), Mvar capability range at terminals, bus-bar to bus-bar losses profile over MW range;
- and
- ix. indicate the location of the project on the ENTSO-E map; and
 - x. expected yearly unavailability, differentiating between planned and forced outages, and the maximum single failure according to the design.
 - xi. main environmental impacts; and
 - xii. any additional information that is considered relevant by the project promoter.

b. Legal documentation:

- i. the statutes of the registered undertaking, including information on its shareholders;
- ii. the balance sheets of the last three fiscal years, or, if the undertaking has been in existence for less than three years, all available balance sheets; and
- iii. information on the industrial undertaking and its technical expertise, including references from other relevant projects; and
- iv. for a project between a non-EU/non-European Economic Area (EEA) country and an EU/EEA country the promoter shall provide the agreement between the impacted ministries or regulators that recognizes the potential benefit of the project; and
- v. the request to all the impacted ENTSO-E TSO/s to perform a prefeasibility or feasibility study or to approve a performed prefeasibility or feasibility study which was sent to the impacted ENTSO-E TSO/s no later than 6 month before applying for the inclusion in the TYNDP; or
- vi. the signed agreement with all the impacted ENTSO-E TSO/s to perform the prefeasibility/feasibility study; or
- vii. the signed approval, from all the impacted ENTSO-E TSO/s, on the project's prefeasibility or feasibility study, performed by another party; or
- viii. the signed agreement on the project proceeding between the ministries or between the regulators of the impacted ENTSO-E countries; or
- ix. the acknowledgment receipt of the application for the EC exemption from the responsible regulatory authorities of the concerned EU countries; or
- x. the PCI list project number obtained and the EC document that confirms the PCI label of the submitted project

Storage projects

Technical description:

- i. Brief technical description of the storage project:
 - type of storage (hydro, pure pumping or including natural inflow; battery, type of technology used; etc.),
 - Installed electric generating capacity¹², including maximum active power (MW) and reactive power (Mvar), and minimum values different from zero.
 - total storage capacity¹³, and installed electric storing capacity including maximum active power (MW) and reactive power (Mvar), and minimum values different from zero.
 - the connection point to the transmission infrastructure, the voltage at the connection point ($\geq 110\text{kV}$) and the features of the required infrastructure to connect the storage plant to the connection point (lines, step-up transformers, etc.) ;

and

¹² Must be higher than 225 MW - As requested by the regulation 347/2013, annex IV, Art. 1(b)

¹³ storage capacity should be defined as total energy delivered to the grid when reservoir is totally emptied, starting at reservoir full condition

- ii. the motivation for the project, including a qualitative description of the investment need that the project addresses and the project's role in supporting at least one of the 3 pillars of EU energy policy (market integration, sustainability, secure system operation); and
- iii. Other technical parameters:
 - efficiency, specifying round trip efficiency (full cycle) and pump/turbine or charge/discharge
 - expected yearly unavailability, differentiating between planned and forced outages
 - depth of discharge or ramp-up/down average and maximum. If relevant, provide a chart of charge/discharge capabilities versus time to show typical operation cycles
 - estimated net annual electricity generation, envisaged operation scheme (seasonal, monthly, daily, hourly), and equivalent full power hours (EFPH)
 - capability for additional ancillary services such as voltage control, frequency control, black start capacity, etc
 - operating constraints (if any)
- iv. a project status, indicating whether the project is in the consideration phase (prefeasibility/feasibility studies), design & permitting phase, planning or under construction;
- v. the expected commissioning date and a timeline of the implementation plan including pre-feasibility and feasibility studies, engineering design, permitting procedures, manufacturing, construction and commissioning; and
- vi. the expected lifetime of the storage unit; and
- vii. the total investment cost of the project, besides the estimation of the operation and maintenance costs, and
- viii. indication of the project's location on the ENTSO-E map and the UTM coordinates, and
- ix. main environmental impacts; and
- x. any additional information that is considered relevant by the project promoter.

Legal documentation:

- i. the statutes of the registered undertaking, including information on its shareholders; and
- ii. the balance sheets of the last three fiscal years, or, if the undertaking has been in existence for less than three years, all available balance sheets; and
- iii. information on the industrial undertaking and its technical expertise, including references from other relevant projects; and
- iv. the request to the impacted ENTSO-E TSO/s to perform a prefeasibility or feasibility study on connecting to the grid or to approve a performed prefeasibility or feasibility study on connecting the storage unit to the grid; or
- v. the signed agreement with the impacted ENTSO-E TSO/s to perform the prefeasibility/feasibility study on connecting the storage unit to the grid; or
- vi. the PCI List project number obtained by EC and the EC document that confirms the PCI label of the submitted project