

GUIDANCE FOR APPLICANTS— TRANSMISSION AND STORAGE PROJECT PROMOTERS

Application to ENTSO-E for projects inclusion in the TYNDP2020

13 June 2019

Version for Consultation

DISCLAIMER

This document is a draft Guidance for the purposes of public consultation only and does not prejudice the final version that ENTSO-E will issue. The content reflected in this version of the Guidance provides an indication of the approach ENTSO-E may take but does not constitute a final or formal document by ENTSO-E.

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1 INTRODUCTION

ENTSO-E shall adopt the Union-wide 10-year network development plan (“TYNDP”) every two years pursuant to Regulation (EC) No 714/2009 of the European Parliament and of the Council of 13 July 2009 on conditions for access to the network for cross-border exchanges in electricity and repealing Regulation (EC) No 1228/2003 (“Regulation 714/2009”). The TYNDP is a biennial plan built upon national and regional development plans on the needs and planned developments at a pan European scale. It assesses needs for the transmission system within Europe and planned development projects submitted by project promoters to address these needs.

The present document provides guidance to project promoters:

- transmission and storage projects; including
 - o both new projects and projects already included in previous TYNDP

who propose applying to ENTSO-E for the inclusion in the TYNDP2020.

The electricity TYNDP, in line with the above mentioned Regulations does not currently accept “Power to X” candidate projects. However, interested project promoters are encouraged to get directly in contact with ENTSO-E if they wish to explore the possibility to participate in potential discussions or modelling investigations on how these projects could be addressed in future editions. Additionally, ENTSO-E informs these project promoters that the ENTSO-G gas TYNDP will consider the candidature of Power to Gas projects in the TYNDP 2020¹.

The document provides the procedural steps and deadlines applying to each step as well as the administrative and technical criteria with which the project promoters need to comply with to have their projects included in the TYNDP.

Project promoters are advised to read these guidelines so that they understand:

- the procedure and timeline;
- technical and administrative criteria their projects will be required to meet;
- documents and information they will be required to submit to fulfil these criteria;
- use and circulation of the information submitted, and;
- other use of information regarding their application, including useful contact details.

¹ [ENTSO-G Practical implementation document for developing the TYNDP 2020](#).

The following legislation and guidelines govern the TYNDP procedure²:

- REGULATION (EC) No 714/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 13 July 2009 on conditions for access to the network for cross-border exchanges in electricity and repealing Regulation (EC) No 1228/2003 (“**Regulation 714/2009**”);³
- 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 (**Regulation 347/2013**);
- COMMISSION RECOMMENDATION of 24 July 2018 on Guidelines on equal treatment and transparency criteria to be applied by ENTSO-E and ENTSG when developing their TYNDPs as set out in Annex III 2(5) of Regulation (EU) No 347/2013 of the European Parliament and of the Council (non-binding “**Commission recommendation**”);
- Long-term network development stakeholders group Terms of Reference (non-binding “[NDSG ToR](#)”).

2 TYNDP 2020 APPLICATION PROCEDURE AND TIMELINE

IMPORTANT NOTICE: The dates below are estimates for the public consultation version and subject to change in the final Guidance.

ENTSO-E is expected to adopt the TYNDP2020 for submission to ACER opinion in Q4 2020. The TYNDP application has several steps with mandatory deadlines. The applications must be submitted in accordance with the technical and administrative criteria laid down in Section 4 and by the deadlines set out in Figure 1 of this Section 2.

Unless explicitly indicated otherwise in this document by ENTSO-E (Section 5.2 and 5.3), no modification to the application is allowed once the deadline for submission has elapsed. However, if there is a need to clarify certain aspects or for the correction of clerical mistakes, ENTSO-E may contact the applicant for this purpose during the evaluation process.

² IMPORTANT NOTICE: All legislation and guidelines referenced in this Guidance are applicable as in force from time to time. It is important to note that at least Regulation 714/2009 will be replaced by a new Electricity Regulation of the Clean Energy Package and its entry into force upon publication in the official journal is expected.

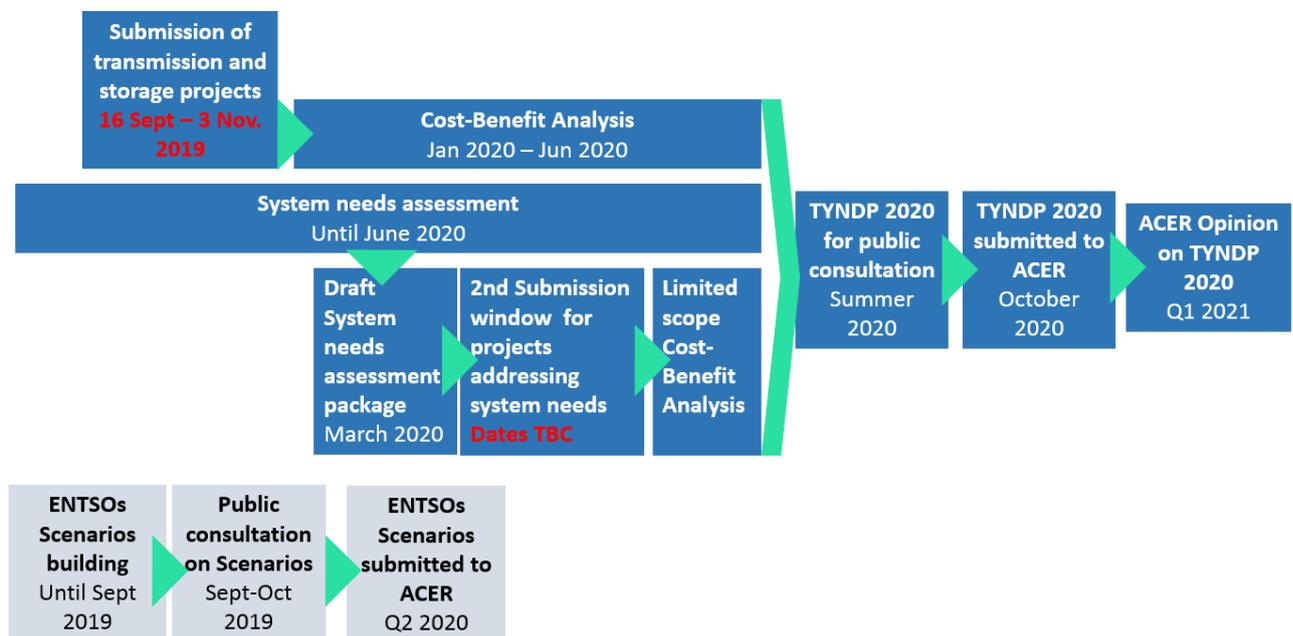


FIGURE 1: ESTIMATED PHASES AND TIMELINE OF DEVELOPMENT OF THE TYNDP 2020

Data collection of TYNDP 2018 projects before the submission window

Pre-collection of data for projects already included in the previous TYNDP will take place in the Summer 2019, before the submission window for applying to the TYNDP 2020.

Submission window

All applicants (new projects and those already included in previous TYNDP / PCI list) will have to submit their project applications from **16th September 3 pm CET until the 3rd November at midnight CET**. During this period and for a period communicated to all the applicants (between ten (10) to 20 (twenty) working days depending on the number of applications) after the deadline, ENTSO-E will consider these applications and their compliance with the criteria set out in Section 4 below.

Failure to provide the necessary information to meet the criteria in line with the timelines set out by ENTSO-E will result in the project not being included nor assessed in the TYNDP 2020.

For projects that are included in the TYNDP 2018, the submission form will be pre-filled with the data available to ENTSO-E at the beginning of the submission window. Project promoters will be responsible to check and, if needed, to update the data. This arrangement is meant to make it less time-consuming for project promoters to apply and does not constitute an exemption for TYNDP 2018 projects from fulfilling the administrative and technical criteria specified in Section 4.

Starting from the **22nd November 2019** ENTSO-E will start to inform the project promoters about their acceptance/rejection for inclusion in the TYNDP. The provisional project list approved by ENTSO-E will be also made public on the ENTSO-E website in March 2020. The TYNDP 2020 project list will be consulted

within the TYNDP 2020 package during Summer 2020, and may be modified in the final TYNDP2020 if decided by ENTSO-E following either a reassessment or new information on the eligibility of projects, advise from the review process or recommendation of ACER included in their opinion.

Further guidance on application assessment, data handling and review procedure is provided below in Section 5.

Submission window for projects addressing system needs identified in the draft TYNDP 2020 System Needs package

A “second window” of project collection will take place after the release of the Identification of System Needs (IoSN) package, foreseen in March 2020. The dates of opening and closing of the submission window will be announced at the time of release of the IoSN package.

This submission window will be open only to **projects under consideration to be commissioned after 2035**. The projects selected in this window should **highlight the link between the projects and the published needs package**. For these projects, ENTSO-E will perform a limited scope Cost-Benefit Analysis.

The projects submitted in this window will receive a visually different project sheet than TYNDP projects selected via the main submission window.

SUBMISSION

It is expected that all applications, including supporting documents will be done through the [online tool which can be found on the ENTSO-E website](#). If any user experiences technical difficulties with the online tool, the ENTSO-E contact person specified in Annex 2 should be alerted as soon as possible so that the problem is resolved or the application is submitted to ENTSO-E by alternative means.

If agreed in advance with ENTSO-E and only in case of technical necessity linked to a possible non availability of ENTSO-E tools, applications may be submitted by email or post. Applicants are advised to check with the ENTSO-E contact person that the application has been received. “Signed for” or special delivery post is recommended.

3 LINK BETWEEN THE TYNDP AND PCI PROCESS

In order to comply with the Regulation (EU) 347/2013 Annex III.3 (3) electricity transmission and storage projects shall be part of the latest available TYNDP to be eligible for inclusion in the Union list of projects of common interest (PCIs). Projects wanting to obtain the status of Projects of Common Interest shall submit an application for selection as project of common interest during the PCI candidate submission phase. The PCI selection is a process separate from the TYNDP process, under the responsibility of the EC Regional Groups led by the European Commission.

As seen from the previous PCI process, all the PCI candidates are evaluated based on the assumptions, analysis and methodology developed in the TYNDP in order to verify if the projects fulfil the eligibility

criteria defined in article 4 of Regulation (EU)347/2013 and to assess their significant contribution to the energy infrastructure priorities of the European Union. The TYNDP cost benefit analysis (CBA) results grounded on the input data provided by the project promoters during the TYNDP project application phase are expected to be the basis of the PCI selection process. Data provided for the projects submitted during the TYNDP application phase have to be coherent with the PCI project candidate application.

Based on the last PCI process it is highly likely that the input data and results of the TYNDP cost and benefit analysis need to be shared with the EC Regional Groups so that they can assess the contribution of a project according to the different criteria laid down in the TEN-T Regulation.

4 CRITERIA TO BE FULFILLED IN ORDER TO ALLOW A PROJECT TO BE PART OF THE TYNDP

This section describes the technical and administrative criteria that each project of the TYNDP 2020 shall fulfil. Failure to provide the necessary information to meet the administrative and technical criteria within the timelines laid down in Section 2, will result in the project not being included nor assessed in the TYNDP 2020. The administrative and technical criteria below are grouped based on the type of the promoter, the type of the project (transmission or storage) and the maturity of the project.

ELIGIBILITY CRITERIA

A TYNDP project promoter that falls under any of the following categories is eligible to apply in the TYNDP2020:

- A. Promoter of transmission infrastructure project within a regulated environment** according to Regulation (EC) No 714/2009, which can be either:
 - A.1.** a project promoter which holds a transmission operating license in a country represented within ENTSO-E (such as ENTSO-E members)
 - A.2.** a project promoter which holds a transmission operating license and operates in a country not represented within ENTSO-E, as long as the transmission infrastructure project is entirely or in part situated in at least one country represented within ENTSO-E and is considered as of European relevance; or
 - A.3.** any other project promoter licensed to operate within a regulated environment (such as OFTOs under the Offshore Transmission Regime in Great Britain) or equivalent
- B. Project promoter of transmission infrastructure projects within a non-regulated environment:** where the project promoter of the new interconnector project intends to request an exemption in accordance with Article 17 of Regulation (EC) No 714/2009.
- C. Project promoters of storage projects planned to be developed in a country represented within ENTSO-E and respecting the technical limitations set in Annex II of the TEN-E Regulation or any equipment or installation essential for the system to operate safely, securely and efficiently.**

4.1 FOR TRANSMISSION PROJECTS

4.1.1 ADMINISTRATIVE CRITERIA

The following table shows the list of administrative pass-fail criteria. All must be fulfilled by the submission deadline.

	A1	A2	A3+B
a. Unbundling (all)	The project promoter shall be a TSO certified in accordance with Article 10 or Article 11 of Directive 2009/72/EC or should demonstrate it has taken the steps to comply with the unbundling requirements of Directive 2009/72/EC and intend to apply for certification before the entry into operation of the transmission infrastructure (including also if any steps taken with regards to the request to obtaining exemption).		
b. Company existence (all)	The project promoter shall be a registered undertaking or a subsidiary of a registered undertaking that has been in existence for at least 1 year before the date of submission (for more advanced projects) or less than 1 year (only for project “ under consideration phase”)		
c. Financial strenght (all)	The assets of the undertaking or its shareholders shall amount to at least 1 million euros.		
d. Technical expertise (all)	The project promoter has the technical expertise to realize the project by its own or by using subcontractors.		
e. Contact details – Failure to provide all required contact information will lead to exclusion from the TYNDP 2020	<ul style="list-style-type: none"> a) 1 SPOC with email and phone number b) 2 delegated contacts: email and phone number. They are responsible to receive TYNDP communications in case the SPOC is not available (due to out-of-office notification or left position) 	<ul style="list-style-type: none"> a) 1 SPOC with email and phone number b) 2 delegated contacts: email and phone number. They are responsible to receive TYNDP communications in case the SPOC is not available (due out of office notification or left position) c) General company contact with email, phone number and postal address for exceptional communication or letter requiring signature 	<ul style="list-style-type: none"> a) 1 SPOC with email and phone number b) 2 delegated contacts: email and phone number. They are responsible to receive TYNDP communications in case the SPOC is not available (due out of office notification or left position) c) General company contact with email, phone number and postal address for exceptional communication or letter requiring signature

The following table shows a list of alternative administrative criteria: at least one must be fulfilled. There are criteria applicable for all projects and others applicable only for projects with a status under consideration or for projects with a status more advanced⁴ than under consideration.

	A1	A2	A3+B
f.PCI (all)	PCI label in the last available PCI list ⁵		
g.National plan (all)	Inclusion in the last available published version of the National Development Plan (NDP) of at least one ENTSO-E country. <i>To satisfy this criteria, the project in question needs to be effectively included in the last available published version of the NDP (e.g. by explicit approval (not just by reference) of the project in question into the plan.) The last available published version of the NDP cannot be more than five (5) years old.</i>		
i.MS / NRA agreement (under consideration)	Project shall have a signed agreement between the competent ministries or regulators		
j.Exemption process (more advanced)	Valid (not rejected) application for exemption under the European regulations (Article 17 of Regulation (EC)714/2009) or equivalent		
k.TSO agreement or processes (under consideration)	Signed agreement ⁶ with all the concerned TSOs members of ENTSO-E OR Positive ⁷ Feasibility study (within the validity period) performed or approved by all the concerned TSOs		

⁴ **More advance status** represent projects which are in the following phases of development: **planned but not yet in permitting** (meaning projects that have been included in the national development plan & completed the phase of initial studies (e.g. completed pre-feasibility or feasibility study), or are certain to be submitted for inclusion in the next national development & completed the phase of initial studies (e.g. completed pre-feasibility or feasibility study), **permitting** (starts from the date when the project promoters apply for the first permit regarding the implementation of the project and the application is valid;) and **construction**.

⁵ In case of application for inclusion in the 4th PCI list, ENTSO-E will take into consideration its application and this criteria will be rechecked when the PCI 4th list will be published by the European Commission.

⁶ Including TSOs confirmation to connect the specific infrastructure to the system (connection point and budget) or the contract with the TSOs to connect (i.e. acceptance to pay for the works)

⁷ The study should conclude that the project is compatible with the planned network and/or should propose additional network reinforcements to integrate the project in the future network

I.Studies (under consideration)	Resulting from an ENTSO-E system needs study (IoSN or RgIPs) .	By 3 November 2019, delivery ⁸ of all relevant information to all the concerned TSOs to facilitate a pre-feasibility or feasibility study or signed contractual agreement with all the concerned TSOs to perform a pre-feasibility or feasibility study.	By 3 November 2019, delivery of all relevant information to all the concerned TSOs to facilitate a pre-feasibility or feasibility study or signed contractual agreement with all the concerned TSOs to perform a pre-feasibility or feasibility study.
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4.1.2 REQUIRED DOCUMENTATION TO PROVE THE FULFILMENT OF ADMINISTRATIVE CRITERIA

All documentation must be provided in the English language.

Information requested to fulfill the administrative pass-fail criteria:

	A1	A2	A3+B
a. Unbundling (all)	On its own responsibility ⁹ the promoter shall confirm/not the fulfillment of the European Union unbundling rules in line with the 3 rd Energy Package or, its commitment to comply with the unbundling EU requirements latest by the time of entry into operation of the project.		
b.Company existence (all)	Already available to ENTSO-E	The statutes of the registered undertaking	

⁸ By any form of communication (e.g. email, form) that is in line with the involved TSOs process.

⁹ Note: If requested by the European Commission or Regulatory bodies the project promoter shall be able at any moment in time to prove the conformity with the EU legislation or the steps it has taken to conform with it.

c.Financial strength (all)	Already available to ENTSO-E	The last available balance sheets submitted to the national tax office no later than 2017. For companies younger than 1 year this information is to be proven with the company existence documentation.
d.Technical expertise (all)	Already available to ENTSO-E	Information on the industrial undertaking and its technical expertise, including references from other relevant projects

Information requested to fulfill the administrative alternative criteria:

	A1	A2	A3+B
f.PCI (all)	PCI number and definition as in the last approved EC published PCI list. In case of application for inclusion in the 4 th PCI list, the promoter shall specify this in the submission platform. ENTSO-E will take into consideration its application and this criteria will be rechecked when the PCI 4 th list will be published by the European Commission.		
g.National plan (all)	The reference (e.g. project code) of the project in the last available published version of the National Development Plans of at least one ENTSO-E country. The project in question needs to be effectively included in the last available published version of the NDP (e.g. by explicit approval (not just by reference) of the project in question into the plan). The last available published version of the NDP cannot be more than five (5) years old. In case of difference in the data indicated compared to the respective data of NDPs the explanation and justification of those differences should be provided		
i.MS / NRA agreement (under consideration)	The signed agreement on the project proceeding between the ministries or between the regulators of the impacted countries, and the recent amendments for it if any.		
j.Exemption process (more advanced)	The acknowledgment receipt of the application for the exemption pursuant to Art. 17 of Regulation (EC) No 714/2009 from the responsible regulatory authorities of the concerned EU countries.		
k.TSO agreement or	Already available to	The signed common agreement with the	The signed connection agreement with all the

processes (under consideration)	ENTSO-E	concerned TSO/s who is/are member/s of ENTSO-E, regarding the development of the submitted project OR All the impacted ENTSO-E TSO positive feasibility ¹⁰ /pre-feasibility ¹¹ studies, or their signed approval on the project's study, performed by another party	concerned TSOs, All the impacted ENTSO-E TSO positive feasibility ¹² /pre-feasibility ¹³ studies, or their signed approval on the project's study, performed by another party
I.Studies (under consideration)	Already available to ENTSO-E	The proof of delivery ¹⁴ of all relevant information to all the concerned TSOs to facilitate a pre-feasibility or feasibility study, or the signed contractual agreement with all the concerned TSOs to perform a pre-feasibility or feasibility study.	

¹⁰ Feasibility study Scope: it should confirm all the results of the pre-feasibility study or amend them and confirm the physical and environmental viability not only of the project itself but also of the connection points and additional investments required.

¹¹Pre-feasibility study Scope: it should include at minimum the connection point/points of the project to the European transmission grid, the admissible transfer capacity in the relevant boundary, the additional investments required for a secure operation and network codes fulfilment.

¹² Feasibility study Scope: it should confirm all the results of the pre-feasibility study or amend them and confirm the physical and environmental viability not only of the project itself but also of the connection points and additional investments required.

¹³Pre-feasibility study Scope: it should include at minimum the connection point/points of the project to the European transmission grid, the admissible transfer capacity in the relevant boundary, the additional investments required for a secure operation and network codes fulfilment.

¹⁴ Delivery by any form of communication (e.g. email, form) that is in line with the involved TSOs process. All relevant information means all the information requested by the concerned TSOs to perform a pre-feasibility or feasibility study.

4.1.3 TECHNICAL CRITERIA FOR TRANSMISSION PROJECTS

The following table shows the list of technical pass-fail criteria: All must be fulfilled by the submission deadline.

	A1	A2	A3+B
m.Technical description	Main equipment is: <ul style="list-style-type: none"> - a high-voltage overhead transmission line designed for a transmission voltage of 110 kV or more in the case of direct cross-border infrastructure OR - a high-voltage overhead transmission line designed for a transmission voltage of 220 kV or more in the case of internal infrastructure OR - a high voltage underground/submarine transmission cable designed for a voltage of 110KV or more. 		
n.Location	Main equipment at least is partially located in one of the 36 countries represented within ENTSO-E		
o.Initial estimation of the Transfer capacity increase	The initial estimation of the net transfer capacity increase (NTC) expressed in MW where: <ul style="list-style-type: none"> - for the cross-border infrastructure : no minimum limit is imposed - for the internal infrastructure: no minimum limit is imposed 		
p.Project network modelling data	All the project characteristics necessary to model the project in the network tool used by ENTSO-E in the assessment process. The detail of this data is included in the appendix under the technical data for storage.		
q.Date of commissioning, status and costs¹⁵	<ul style="list-style-type: none"> - Date of commissioning and status of the project of each of the investment items part of the project. - CAPEX and OPEX of each of the investment items part of the project. <p>Note: This data is mandatory and therefore any non-compliance will result in the exclusion from the final TYNDP.</p>		

Additionally, the project promoters will be contacted one month after the finalization of the Identification of System Needs (IoSN) report with a request to link their projects to the needs identified in the IoSN report or the latest available regional or national plans. Project promoters will have to provide this update during a dedicated submission window of one month. This link will be done through an online tool.

¹⁵ Note: - The the validity of this data will be checked by ENTSO-E based on check rule discussed with ACER against general project development (status and commissioning date) and reference costs.

This additional information is not part of the pass-fail criteria for inclusion in the TYNDP. This additional requirement will be reflected in the published TYNDP 2020 projects sheets and serves only to provide further information on the project.

4.1.4 REQUIRED DOCUMENTATION TO PROVE THE FULFILMENT OF THE TECHNICAL CRITERIA

All documentation must be provided in the English language. Information requested to fulfill the technical pass-fail criteria:

	A1	A2	A3+B
m. Technical description	A brief technical description of the projects: identification of main investment and additional investment items, with its technology (AC/DC) and voltage level; end-substations, km of route, etc.		
n. Location	Location of the project in the ENTSOE map - GIS coordinates		
o. Initial estimation of the Transfer Capacity increase	<ul style="list-style-type: none"> i. An assessment of the increase in the transfer capacity which the project will enable, expressed in MW. ii. An explanation of the use of that transfer capacity increase (cross-border impact, generation connection, and/or securing load growth) 		
p. Project network modelling data	<ul style="list-style-type: none"> i. electro-technical parameters of the project which are necessary to model the proposed investment in the network studies: 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; 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; ii. Expected yearly unavailability, differentiating between planned and forced outages, and the maximum single failure according to the design iii. In case of projects other than in the “under consideration” phase the list and features of the internal reinforcements required to connect the project in the transmission network based on the affected TSO analysis 		

q. Date of commissioning, status and the cost of the project	<ul style="list-style-type: none"> i. A estimation of the commissioning date for each investment item ii. A timeline of the implementation plan including pre-feasibility and feasibility studies, engineering design, exemption and permitting procedures, manufacturing, construction and commissioning iii. A project status for each investment item, indicating whether the project is "under consideration" (prefeasibility/feasibility studies), "planned, but not yet in permitting", "in permitting" or "under construction" iv. The total investment cost (and for each investment item) at the commissioning year value and yearly operation and maintenance cost: CAPEX +OPEX Note: the cost data will be asked from the project in Q1/2020. This data is mandatory and therefore any non-compliance will result in the exclusion from the final TYNDP.
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Important: every project which is currently present in the National Development Plans (final or draft) or currently not (and in this case to justify why not), indifferent of the administrative criteria the promoter delivers prove of compliance for, shall deliver to ENTSO-E the reference (i.e. project code and page number) of the project in the last available National Development Plans for all the ENTSO-E countries directly concerned. This information will be requested in Q1/2020 together with linking the project with the system needs.

4.2 FOR STORAGE PROJECTS

4.2.1 ADMINISTRATIVE CRITERIA FOR STORAGE PROJECTS

The following table shows the list of administrative pass-fail criteria: All must be fulfilled by the submission deadline.

C	
a. Company existence (all)	The project promoter shall be a registered undertaking or a subsidiary of a registered undertaking that has been in existence for at least 1 year before the date of submission (for more advance projects) or less than 1 year (only for project " under consideration phase")
b. Financial strength (all)	The assets of the undertaking or its shareholders shall amount to at least 1 million euros
c. Technical expertise (all)	The project promoter has the technical expertise to realize the project by its own or by using subcontractors

d.Contact details (all) – Failure to provide the required contact information will lead to exclusion from the TYNDP 2020	<ul style="list-style-type: none"> a) 1 SPOC with email and phone number b) 2 delegated contacts: email and phone number. They are responsible to receive TYNDP communications in case the SPOC is not available (due out of office notification or left position) c) General company contact with email, phone number and postal address for exceptional communication or letter requiring signature
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The following table shows a list of alternative administrative criteria: At least one must be fulfilled.

There are criteria applicable for all projects and others applicable only for projects with a status under consideration or for projects with a status more advanced than under consideration

C	
e.PCI (all)	PCI label ¹⁶ in the last available PCI list
g.National plan (all)	Inclusion in the last available published version of the National Development Plan (NDP) of the ENTSO-E country where the storage will be built. <i>To satisfy this criteria, the project in question needs to be effectively included in the last available published version of the NDP (e.g. by explicit approval (not just by reference) of the project in question into the plan.). The last available published version of the NDP cannot be more than five (5) years old.</i>
h.TSO agreement or processes (more advanced)	Signed connection agreement with the TSO within the ENTSO-E country where the storage will be built.
i.Studies (under consideration)	Feasibility/pre-feasibility study performed or approved by the TSO within the ENTSO-E country where the storage will be built OR Delivery by 3 November 2019 of all relevant information to all the concerned TSOs to facilitate a pre-feasibility or feasibility study ¹⁷ .

¹⁶ In case of application for inclusion in the 4th PCI list, ENTSO-E will take into consideration its application and this criteria will be rechecked when the PCI 4th list will be published by the European Commission.

¹⁷ Delivery by any form of communication (e.g. email, form) that is in line with the involved TSOs process. All relevant information means all the information requested by the concerned TSOs to perform a pre-feasibility or feasibility study.

4.2.2 REQUIRED DOCUMENTATION TO PROVE THE FULFILMENT OF THE ADMINISTRATIVE CRITERIA

All documentation must be provided in the English language.

Information requested to fulfill the administrative pass-fail criteria:

	C
a. Company existence (all)	The statutes of the registered undertaking
b. Financial strength (all)	The last available balance sheets submitted to the national tax office no later than 2017. For companies younger than 1 year this information is to be taken from the company existence documentation.
c. Technical expertise (all)	Information on the industrial undertaking and its technical expertise, including references from other relevant projects.

Information requested to fulfill the administrative alternative criteria:

	C
e. PCI (all)	PCI number and definition as in the last approved EC published PCI list. In case of application for inclusion in the 4 th PCI list, the promoter shall specify this in the submission platform. ENTSO-E will take into consideration its application and this criteria will be rechecked when the PCI 4 th list will be published by the European Commission.
g. National plan (all)	The reference (e.g. project code) of the project in the last available published version of the National Development Plans of at least one ENTSO-E country. <i>To satisfy this criteria, the project in question needs to be effectively included in the last available published version of the NDP (e.g. by explicit approval (not just by reference) of the project in question into the plan.). The last available published version of the NDP cannot be more than five (5) years old.</i> In case of difference in the data indicated compared to the respective data of NDPs the explanation and justification of those differences should be provided
h. TSOs agreement and processes agreement	The signed connection agreement with the impacted TSO.

(more advanced)	
i.Studies (under consideration)	The impacted ENTSO-E TSO feasibility ¹⁸ /pre-feasibility ¹⁹ studies, OR their signed approval, on the project's study, performed by another party OR the proof of delivery, by 3 November 2019, to all impacted TSOs, of all relevant information to facilitate a feasibility/pre-feasibility study ²⁰ .

4.2.3 TECHNICAL CRITERIA FOR STORAGE PROJECTS

The following table shows the list of technical pass-fail criteria: All must be fulfilled by the submission deadline.

	C
j.Technical description	The project shall be an electricity storage facility used for storing electrical energy into another energy form for producing electricity at a later date on a permanent or temporary basis in above-ground or underground infrastructure or geological sites
k.Capacity & Generation	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/year ²¹ .
l.Voltage level	The project is directly connected to the high-voltage transmission network for a voltage of 110kV or more ²²
m.Location	The project is partially located and directly connected to one of the 36 countries represented within ENTSO-E
n.Project network/market modelling data	All the project characteristics necessary to model the project in the network tool used by ENTSO-E in the assessment process.

¹⁸ Feasibility study Scope: it should confirm all the results of the pre-feasibility study or amend them and confirm the physical and environmental viability not only of the project itself but also of the connection points and additional investments required.

¹⁹ Pre-feasibility study Scope: it should include at minimum the connection point/points of the project to the European transmission grid, the admissible transfer capacity in the relevant boundary, the additional investments required for a secure operation and network codes fulfilment.

²⁰ Delivery by means any form of communication (e.g. email, form) that is in line with the involved TSOs process. All relevant information means all the information requested by the concerned TSOs to perform a pre-feasibility or feasibility study.

²¹ Regulation (EU) 347/2013, Annex IV.1. (b);

²² Regulation (EU) No 347/2013, Annex II.1. (c)

o. Date of commissioning, status of the project and costs	<ul style="list-style-type: none"> - Date of commissioning and status of the project. - CAPEX and OPEX of the project. <p>Note: This data is mandatory and therefore any non-compliance will result in the exclusion from the final TYNDP.</p>
p. Natural Inflow	The promoter indicates whether the project presents a natural inflow (for PHES) (yes/no answer)

Additionally, the project promoters will be contacted one month after the finalization of the Identification of System Needs (IoSN) report with a request to link their projects to the needs identified in the IoSN report, or the latest available regional or national plans. Project promoters will have to provide this update during a dedicated submission window of one month. This link will be done through an online tool.

This additional information is not part of the pass-fail criteria for inclusion in the TYNDP. This additional requirement will be reflected in the published TYNDP 2020 projects sheets and serves only to provide further information on the project.

4.2.4 REQUIRED DOCUMENTATION TO PROVE THE FULFILMENT OF THE TECHNICAL CRITERIA

All documentation must be provided in the English language. Information requested to fulfill the technical pass-fail criteria:

C	
j. Technical description	Brief technical description of the storage project: type of storage (hydro, pure pumping or including natural inflow; battery, type of technology used; etc.),
k. Capacity & Generation	<ul style="list-style-type: none"> i. Installed electric generating capacity²³, including maximum active power (MW) and reactive power (Mvar), and minimum values different from zero. ii. Total storage capacity²⁴, and installed electric storing capacity including maximum active power (MW) and reactive power (Mvar), and minimum values different from zero.
l. Voltage level	The connection point to the transmission infrastructure, the voltage at the connection point ($\geq 110\text{kV}$)
m. Location	Location of the project in the ENTSOE map and UTM coordinates
n. Date of commissioning, status and the cost of the project	<ul style="list-style-type: none"> i. A estimation of the commissioning date ii. A timeline of the implementation plan including pre-feasibility and feasibility studies, engineering design, exemption and permitting procedures, manufacturing, construction and commissioning iii. A project status, indicating whether the project is under consideration” (prefeasibility/feasibility studies), “planned, but not yet in permitting”, “in permitting” or “under construction”;; iv. The total investment cost of the project at the commissioning year value, and the annual operation and maintenance costs (including the cost of purchase of energy): CAPEX+OPEX Note: the cost data will be asked from the project in Q1/2020. This data is mandatory and therefore any non-compliance will result in the exclusion from the final TYNDP.

Important: every project which is currently present in the National Development Plans (final or draft) or currently not (and in this case to justify why not), indifferent of the administrative criteria the promoter delivers prove of compliance for, shall deliver to ENTSO-E the reference (i.e. project code and page number) of the project in the last available National Development Plans for all the ENTSO-E countries directly concerned. This information will be requested in Q1/2020 together with linking the project with the system needs.

²³ Must be higher than 225 MW - As requested by Regulation (EU) 347/2013, annex IV, Art. 1(b);

²⁴ Storage capacity should be defined as total energy delivered to the grid when reservoir is totally emptied, starting at reservoir full condition.

5 DATA HANDLING, PROJECT ASSESSMENT AND REVIEW PROCEDURE

5.1 ACCESS TO AND USAGE OF THE PROVIDED DATA AND DOCUMENTATION

The administrative documents provided by the project promoters during the submission phase and referring to their legal status, financial capability and technical expertise should be solely used by ENTSO-E to ensure compliance with the administrative criteria defined in their practical implementation documents and should be treated as confidential by ENTSO-E.

The technical input provided by the project promoters and the assessed benefits of the projects assessed in accordance with the CBA methodology should be made public by ENTSO-E.

The cost data submitted by the project promoters for the projects to be included in the TYNDPs will be made public by ENTSO-E. Derogations may apply if the data are declared confidential by their respective project promoters.

However, in the context of the PCI selection exercise, the Regional Groups established under the TEN-E Regulation should have access to all cost data submitted by the project promoters within the TYNDP process.

5.2 PROJECT SUBMISSION PROCESS AND ACCEPTANCE / REJECTION PROCESS BASED ON ADMINISTRATIVE AND TECHNICAL CRITERIA

The project promoter is fully responsible for the correctness and completeness of the information that it provides in the TYNDP procedure.

After the **3rd November 2019** deadline for project submission, ENTSO-E will review both administrative and technical criteria during a period communicated to all the applicants (within ten to twenty working days after the application deadline).

In case of incomplete and/or misleading submission of information during the application period, ENTSO-E will send a formal request to the project promoter to complete and/or correct the missing/misleading information within five working days after ENTSO-E's request. If the promoter fails to submit the requested data, the project is rejected and the project promoter can pass to review phase (detailed in section 5.5).

5.3 UPDATE OF TECHNICAL DATA

5.3.1 REQUESTS BY PROJECT PROMOTERS TO UPDATE TECHNICAL DATA

Requests by project promoters to update project information shall be dealt with in the following manner:

- In case of incorrect information, submitted within the submission window (**16th September 2019 – 3rd November 2019**) the promoter shall inform ENTSO-E of this error. The updated data shall be sent to ENTSO-E by the end of ENTSO-E application review period which will be communicated to all the applicants once the submission window is expired (within ten to twenty working days after the

application deadline). After this period the data will be considered frozen for the purposes of the CBA Assessment.

- During the data processing phase and the assessment phase (December 2019 - June 2020) no data update request by project promoters will be accepted by ENTSO-E for the purpose of the CBA Assessment.
- If the project information changes from the moment of confirmation of acceptance in the TYNDP and the start of the TYNDP consultation, the promoter will have the possibility to update the project information during the TYNDP consultation phase. This update will be included in a dedicated section of the TYNDP project sheet and be clearly labelled with the date of information submission and the disclaimer that this update is not reflected in the CBA assessment results published in the TYNDP. The technical data used for the CBA assessment will in any case be published and labelled as input data for the CBA assessment.

5.3.2 REQUESTS BY ENTSO-E TO CORRECT OR COMPLETE THE TECHNICAL DATA PROVIDED

ENTSO-E reserves the right to ask a project promoter to correct the technical data provided at any time. The project promoter will then be asked to provide the corrected technical data within five (5) working days.

If the project promoter fails to provide the corrected data, or if the information provided does not allow for a full CBA calculation of the project, this specific project will be disregarded, and not included and assessed in the TYNDP.

Further, during Q1-Q2/2020 ENTSO-E will invite the promoters to deliver additional information within a clearly mentioned period, which will be used to complete, aside of the ENTSO-E CBA assessment, their respective project sheets. This information is:

- Linking the project with the system needs - after the availability of the ENTSO-E report on infrastructure needs IoSN and the regional investment plans, project promoters will be requested to indicate which infrastructure need(s) their project contributes to. Promoters will explain the motivation for the project, including a qualitative description of the investment need that the project addresses giving reference to TYNDP assessments or other studies, and the project's role in supporting at least one of the 3 pillars of EU energy policy (market integration, sustainability, secure system operation).
- Deliver the cost of the project (CAPEX and OPEX at the investment level) and the cost justification in line with the Cost Benefit Methodology into force.
- Deliver the project code and page number of the project in the last available National Development Plans for all the ENTSO-E countries directly concerned and if currently not part of any NDP to justify why not and what are the steps the promoter intends to follow in this respect.
- Deliver any other explanation in line with the Cost Benefit Analysis Methodology which will enhance the description of the project benefits in the TYNDP report.

5.4 ACCESS TO ASSESSMENT RESULTS

ENTSO-E recognises the importance of the project assessment results to the overall quality and acceptance of the TYNDP and to individual promoters' projects.

Therefore, ENTSO-E will send to project promoters' single point of contact, at least one month in advance of the public consultation on the TYNDP 2020, the specific assessment results for their project[s].

Upon review of these results, project promoters may have questions or queries. A request can be made to the ENTSO-E TYNDP project team for a bilateral meeting by sending a request for a meeting to the point of contact set out in Annex 2 of this document. This request should include a brief description of the topics and issues that the project promoter wishes to discuss and the project promoter's upcoming availability.

In conjunction with project promoters and stakeholders, ENTSO-E will be hosting public workshops at key stages in the development of the TYNDP to consult on associated methodologies and results. Project promoters are strongly advised to make themselves aware and contribute through these workshops to the ongoing development of the TYNDP. These workshops will be announced with a brief synopsis and registration details at: <https://www.entsoe.eu/news-events/events/Pages/default.aspx>.

Further information on the development and content of the TYNDP 2020 can be found at: <https://tyndp.entsoe.eu/>.

5.5 RIGHT TO REQUEST A REVIEW

ENTSO-E shall treat all applications, including supporting documents, in line with the procedure laid down in Sections 4 and 5.

In case of disagreement with ENTSO-E's initial decision to reject a project from the provisional list, the concerned project promoter has a right to ask ENTSO-E to review its rejection decision in accordance with the review procedure outlined in this Section 5.5.

PURPOSE AND SCOPE OF THE REVIEW PROCEDURE

The purpose and scope of the review procedure is to hear evidence as to why the applicant considers that the initially rejected project in question complies with the eligibility, administrative and technical criteria and the procedure laid down in this document, and should therefore be included in the TYNDP 2020.

The review procedure is carried out before the Network Development Stakeholder Group (NDSG) which is a voluntary group consisting of members from generator, distributor, trader, consumer, NGO etc. interest groups; with the Commission and ACER as permanent observers and chaired by ENTSO-E as further specified in the NDSG Terms of Reference (ToR).

HOW TO REQUEST A REVIEW

Where ENTSO-E has issued a rejection decision to a candidate, the decision document provides the rejected project promoter ten (10) working days from the date of the decision document to send a review request to ENTSO-E, via email to the point of contact indicated in Annex 2 of this document.

The applicants review request must indicate the decision challenged, the reasons for the challenge and contain the necessary supporting evidence.

Hearings are organised before the NDSG and are followed by the NDSG issuing a non-binding recommendation to ENTSO-E who will adopt the final decision in the matter.

Any time during the review procedure, ENTSO-E may consult the Commission and ACER. If deemed necessary, the authorities may also consult on an ad-hoc basis the relevant stakeholders when considering the project promoters' justifications. When taking its final decision, ENTSO-E take into account – but is not bound by - the expressed views, in addition to the non-binding NDSG recommendation.

The following elements - considered as having been already consulted with stakeholders earlier in the process, agreed upon and finalised – are not to be open for discussion within this review phase: scenario assumptions and data, CBA methodologies in force and project data submitted within the process.

Detailed review procedure steps will be provided in ENTSO-E’s rejection notification, but the main elements will be according to Figure 2.

	ENTSO-E issues a rejection notification
By 10 working days after the rejection notification	Project promoter issues a review request
At least 3 weeks after ENTSO-E’s rejection notification	Hearing before NDSG takes place, in person or by web conference.
By two weeks after the hearing	NDSG informs ENTSO-E of their non-binding opinion (or decision not to provide an opinion) in writing.
	The System Development Committee of ENTSO-E adopts a decision. ENTSO-E notifies the project promoter of its decision regarding their inclusion or exclusion in the TYNDP.

Figure 2. Provisional timeline for the review process

ANNEX 1: TYNDP2020 SUBMISSION WINDOW NOTIFICATION TO PROJECT PROMOTERS OF CATEGORIES A3, B AND C FROM TYNDP2018

In order to ensure that the project promoters belonging to the categories A3 + B + C, and who have been involved in the TYNDP 2018, are duly informed about the submission window for the TYNDP 2020, ENTSO-E will follow the following steps:

1. On the opening of the submission process, ENTSO-E sends an e-mail to inform all project promoters of categories A3, B and C who were included in the TYNDP 2018 of the opening of the process – using contacts made available by promoters in the TYNDP platform and PCI submission platform. ENTSO-E asks project promoters to acknowledge good reception by e-mail within 5 working days.
2. A reminder is sent after 3 working days.
3. Project promoters who did not send an acknowledgement are contacted by phone (if a phone number has been provided through the TYNDP and PCI platform) and are asked to acknowledge until an extended deadline.
4. After the extended deadline, ENTSO-E sends per email to EC and ACER the list of A3, B and C project promoters who did not acknowledge/answer to the call and asks for alternative contact points. Promoters are then contacted with the alternative contact details, if available.
5. At the closure of the selection window, ENTSO-E sends an e-mail to A3, B and C project promoters who did not register to offer a short extended deadline, and to ask for a kind acknowledgment that they did not apply within three working days.
6. At the expiration of the extended deadline, ENTSO-E sends a letter to A3, B and C project promoters who did not apply to inform them that they will not be included in the TYNDP 2020, copy to EC and ACER.
7. In Q1-2020 ENTSO-E publishes on its public website a list of the TYNDP 2018 projects with indication of whether they have applied for the TYNDP 2020.

ANNEX 2: ENTSO-E CONTACT DETAILS

ENTSO-E can be contacted by using the following contact details:

- Email: lea.dehautt@entsoe.eu
- Phone: +32 2 741 86 29
- Address: Lea Dehautt, Av. Cortenbergh 100, 1000, Brussels, Belgium