



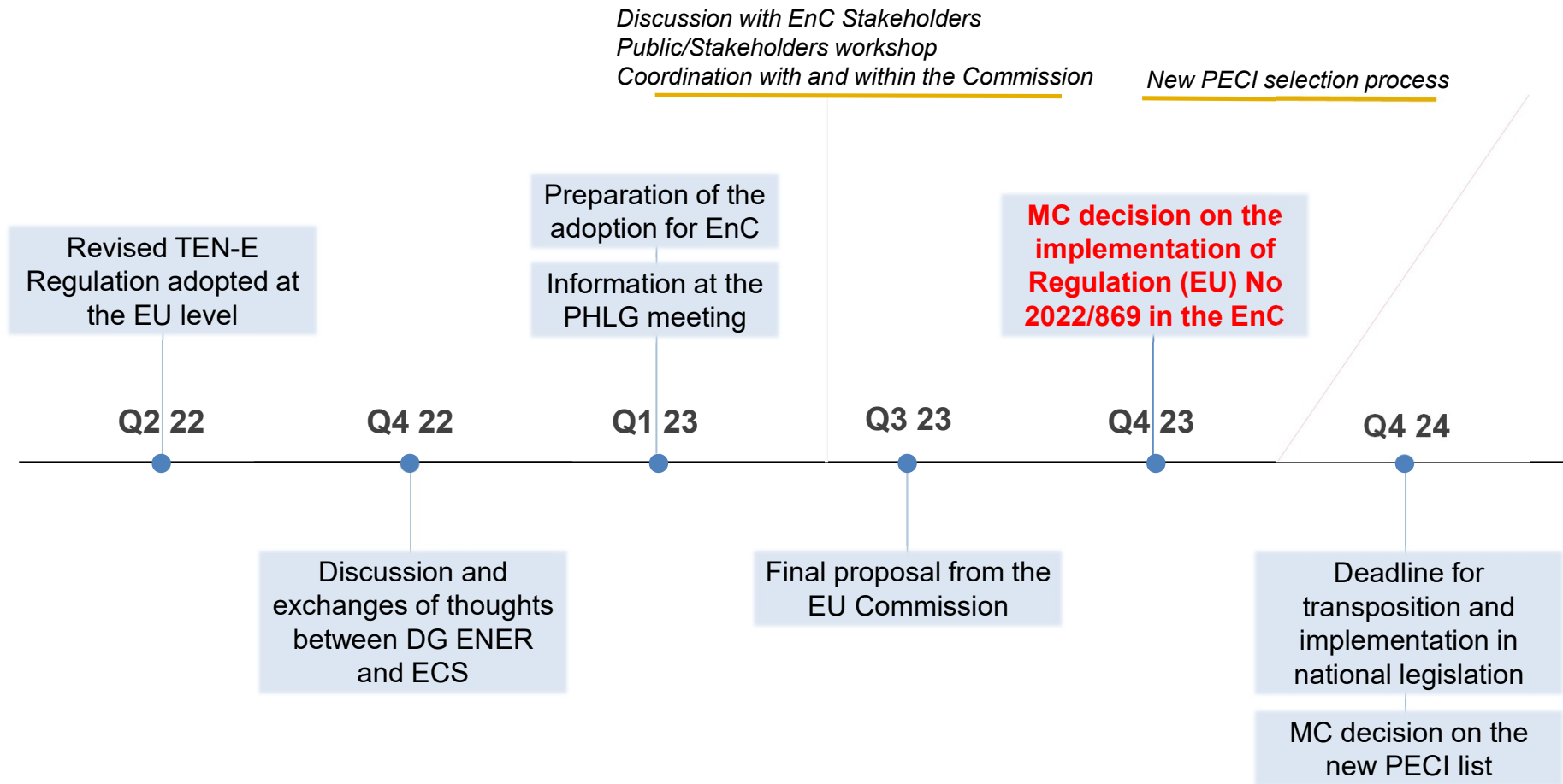
Energy Community Workshop on the energy storage technologies

Energy storage technologies in the new TEN-E Regulation

Online event, 14 November 2023

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Energy Community Secretariat

Predicted timeline for TEN-E adoption in the EnC



ECS activities



When?	Activity
Q3-Q4/2022	Analysis of the new regulation, internal discussions
Q1/2023	EC-EnC discussions on implementation and timing
Q2-Q3/2023	Coordination with EC, organisation of workshop, discussions with the contracting parties
Q4/2023	<ul style="list-style-type: none">• Ministerial Council adoption of the adapted Regulation TEN-E 2022/869• Preparation of the PECl selection process in 2024
Q1-Q2/2024	The new PECl selection process, coordination of the groups, proposal of the list of Projects of Energy Community Interest
Q4/2024	Support for the Ministerial Council to adopt the list
Q1/2025 and afterwards	<ul style="list-style-type: none">• Monitoring of the implementation,• Support to CPs,• Organisation of the process, coordination of the groups and preparation of proposals for the EnC list (every two years)

TEN-E – eligible electricity infrastructural categories

- high and extra-high voltage overhead transmission lines, crossing a border or within a Contracting Party territory including the exclusive economic zone, if they have been designed for a voltage of 220 kV or more, and underground and submarine transmission cables, if they have been designed for a voltage of 150 kV or more;
- energy infrastructure for offshore renewable electricity;
- **energy storage facilities, in individual or aggregated form, used for storing energy on a permanent or temporary basis in above-ground or underground infrastructure or geological sites, provided they are directly connected to high-voltage transmission lines and distribution lines designed for a voltage of 110 kV or more;**
- any equipment or installation essential for the previous categories to operate safely, securely and efficiently, including protection, monitoring and control systems at all voltage levels and substations;
- **smart electricity grids** involving at least two Contracting Parties;
- any equipment or installation essential for the high and extra-high voltage overhead transmission lines having dual functionality: interconnection and offshore grid connection system from the offshore renewable generation sites to two or more Contracting Parties;

Criteria for the assessment of projects - general

PECI project shall meet the following general criteria:

(a) the project **should be eligible** according to TEN-E (some energy storages are eligible)

(b) the potential **overall benefits of the project outweigh its costs**

(c) the project meets any of the following criteria:

(i) it involves at least **two Contracting Parties** by directly or indirectly, via interconnection with a third country, crossing the border of two or more Contracting Parties;

(ii) it is located on the territory of one Contracting Party, either inland or offshore, including islands, and has a significant cross-border impact.

Criteria for the assessment of projects - specific

For electricity transmission, distribution and **storage** projects, the project contributes significantly to:

- sustainability through the integration of renewable energy into the grid,
- the transmission or distribution of renewable generation to major consumption centres and storage sites, and
- to reducing energy curtailment, where applicable, and
- contributes to at least one of the following specific criteria:
 - (i) market integration, including through lifting the energy isolation of at least one Contracting Party and reducing energy infrastructure bottlenecks, competition, interoperability and system flexibility;
 - (ii) security of supply, including through interoperability, system flexibility, cybersecurity, appropriate connections and secure and reliable system operation;

Criteria for the assessment of projects - additional



The project provides:

- at least **225 MW** installed capacity and
- has a storage capacity that allows a net annual electricity generation of **250 GW-hours/year**

Energy storage facilities may be in individual or aggregated form

Summary of criteria for the energy storage projects

GENERAL

Have significant cross-border impact and contributes significantly to:

- **Sustainability**
- **Integration of RES**
- **Reducing curtailments**
 - **Electricity Market integration, or**
 - **SoS (interoperability, system flexibility, cybersecurity, appropriate connections and secure and reliable system operation)**

TECHNICAL

Connected to 110 kV network or above
Installed capacity larger than 225 MW
Net annual electricity generation of 250 GWh

ECONOMIC

Benefits larger than costs



THANK YOU
FOR YOUR ATTENTION

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