

EU DSO Entity

ESC GC 4th March 2026

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Content

- European Grids Package
- “Guidance on efficient and timely grid connections”
- Focus on Recommendations 5 & 19
- Focus on Direct lines recommendation 5
- Focus on Hybridisation- recommendation 19

European Grids package

- The Commission presented the [European Grids Package](#) (COM/2025/1005) on 10 December 2025, following the EU Action Plan for Grids adopted in November 2023.
- It consists of a [proposal to revise the TEN-E Regulation](#) and a [proposal to accelerate permit granting procedures](#) by amending the Renewable Energy Directive, the Electricity Market Design and the Gas Directive.

“Guidance on efficient and timely grid connections”

Focus on Recommendations 5 & 19

1. Focus on Direct lines – EC recommendation 5
2. Focus on Hybridisation - EC recommendation 19

1. Focus on Direct lines, recommendation 5

A. EC text - extract

- To accelerate grid connection in case where system operators face issues related to too many projects being pursued in parallel, project promoters, especially those planning to conclude physical power purchase agreements, could consider greater development of direct lines between the production and consumption of electricity in line with Article 7 of the Electricity Directive, to proceed with needed connection faster, on condition of existence of the necessary national framework.
- While development of direct lines can accelerate grid connection between generators and users, such infrastructure would usually be fully financed by and for the exclusive use of the parties involved, which can increase the project cost and potentially generate inefficiencies

B. DSO Entity attention points

- 1. No DSO penalties:** DSOs should not be penalized for the failure of the direct lines
- 2. Technical control at interface:** DSOs define requirements at the public grid ↔ direct line connection point (*e.g., protection selectivity, remote control, metering*).
- 3. Clear compliance responsibility:** Identify who ensures plant compliance with grid codes (*NC RfG / NC DC*) for units connected *only via direct line*.

2. Focus on Hybridisation, recommendation 19 (1/4)

A. EC text – Extract

- Some countries also apply a requirement for an entirely new connection request where storage or new load is added into the same connection point, even if it does not go beyond the originally agreed connection capacity, risking hampering the further build-out of clean energy sources and loads.
-This is acknowledged by the provisions of RED as well as the RfG network code, which stipulate that technical conditions for connection of generators are applied to new or significantly modified assets (including repowering), keeping the door open for limited adjustments to existing connection points. A revision of the network code to clarify the scope of significant modernisation is currently underway.
- A different way of processing connection requests that do not lead to an increase in the contracted capacity of the connection point (or that reduce it), could help with uptake of hybrid solutions. Physical hybridisation refers to combination of several generation and/or storage assets in the same plant (under a single connection point). This may be combined with loads.

2. Focus on Hybridisation, recommendation 19 (2/4)

DSO Entity attention points – on compliance requirements

1. Basis for Compliance

- A. Based on Pmax of the power generating module
- B. NC RfG 2.0 expands rules on module definition

2. Threshold for New Requirement

- A. Stakeholder proposal: +50% Pmax
- B. Draft NC RfG 2.0: **+20% Pmax**
- C. → 50% threshold would better enable hybridisation

3. Clear National Rules Needed

- A. Clear allocation of units to modules
- B. Cover all technologies & asset ages
- C. Address repowering cases
→ Avoid gradual circumvention of compliance

2. Focus on Hybridisation, recommendation 19 (3/4)

DSO Entity attention points – on compliance requirements

4. Storage – Option: Separate Module

New storage = new, separate module

→ Compliance applies only to new assets

5. Option: Separate Legal Entity

New module = new power plant. Conformity excludes existing plant

→ sharing rules required (agreement or NRA decision)

2. Focus on Hybridisation, recommendation 19 (4/4)

DSO Entity attention points - on Controlling Power Flows

1. Ensure safe power flows when adding new or hybrid assets
2. Prevent overloads at the connection point
3. **Techniques Used by System Operators:**
 - A. **Contractual limits** – simple binding agreements
 - B. **Site control systems** – owner manages net flow; may include fail-safes
 - C. **NC RfG Article 14.2b** – operator can reduce module output
 - D. **Protection arrangements** – engineered at connection point; clear rules on ownership & deployment
 - E. **Active Network Management (ANM)** – operator monitors flows and sends curtailment/turn-up instructions

Key Recommendations

- A. Use **one or multiple techniques** as needed
- B. Member States: ensure **transparent, justified, and published requirements** for site owners

Thank you for your attention
Questions?
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