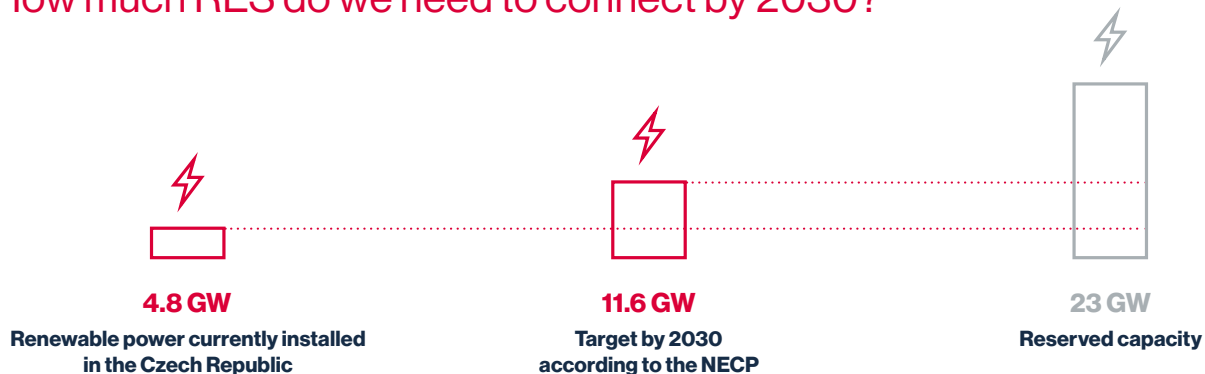


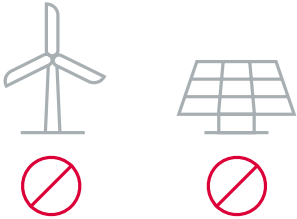
# Eight measures to cut costs while strengthening the electricity system

How much RES do we need to connect by 2030?



We need to increase the installed capacity of RES by 6.8 GW by 2030. However, the reserved capacity in the grid is almost four times higher. Many of these projects will never get built and are only blocking capacity for better-prepared projects by developers and citizens.

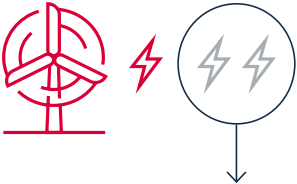
**The proposed measures will release up to 17.8 GW of capacity on the grid, with the potential to save up to CZK 226 billion (ca 9, 058 mil. €) in investment in infrastructure reinforcement.<sup>1</sup>**

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**1. Release of unused capacity reservations**

At least 23 GW of network capacity is reserved for unrealised solar and wind power projects.


**We estimate that up to 10 GW of reserved capacity can be released.**

BEST PRACTICE United Kingdom
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**2. Adequate capacity reservations – “use it or lose it”**

Reserved grid capacity does not always correspond to the actual installed capacity or electricity consumption. Network users should either use the capacity or lose it.

**We estimate that up to 3.8 GW of reserved capacity can be released.**

BEST PRACTICE Netherlands
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**3. Prioritization in connecting to the network**

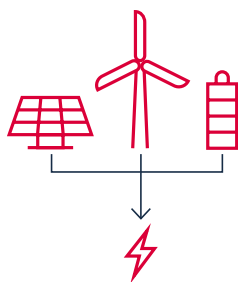
We need to change the principle used to determine whether to connect a project to the grid. Instead of the “first-come, first-served” rule, we recommend ranking projects according to criteria such as project readiness or the benefit to society and the network.

**We should connect the renewables and battery systems that we need most in the electricity grid.**

BEST PRACTICE Netherlands

<sup>1</sup> This amount is based on an estimate of the average costs of distribution system development related to the connection of RES. According to a study by EGÚ Brno (Options for improving the integration of renewable sources into the electricity grid, April 2025), the cost of connecting 1 kW of RES (PV, CHP) is estimated at CZK 12 700 (cca 510 €).

4.

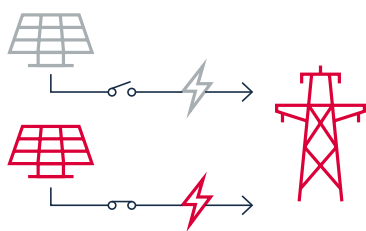
**Cable pooling**

Solar and wind power generation is complementary throughout the year, so they can share grid connection. This reduces the cost of building RES and ensures the capacity of the electricity grid is used more efficiently.

**We estimate that up to 2 GW of reserved capacity can be released.**

BEST PRACTICE Poland

5.

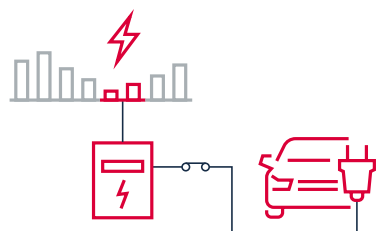
**Flexible grid connection agreements**

Flexible connection agreements allow network operators to respond to congestion in locations with limited capacity. Customers who sign up for it are not guaranteed uninterrupted access to the network and their electricity production can be limited by the DSO. However, they can be incentivised through other benefits, such as discounts on the electricity distribution tariff or compensation for undelivered electricity.

**We estimate that up to 2 GW of new capacity can be made available for RES.**

BEST PRACTICE Belgium

6.

**Dynamic network tariffs**

Dynamic network tariffs incentivise users to adjust consumption according to network load, e.g. by shifting EV charging to off-peak hours. They can thus react to the current state of the network. Their operation requires the installation of a smart meter.

**Thanks to dynamic distribution tariffs, we will learn to understand the grid better and optimize its use.**

BEST PRACTICE Switzerland

7.

**Transparency when connecting new RES**

Developers of new RES projects need to know the connectivity options in the area where they want to invest. Interactive maps are convenient, as well as required by the Czech Energy Act, and must be updated regularly at all voltage levels.

**We will find out where developers can invest and at what cost.**

BEST PRACTICE Belgium

8.

**More efficient connection of RES – clustering method**

The cluster approach speeds up RES connection by grouping applications into groups (clusters) and assesses their connectivity at the same time. This reduces administration, saves time, and reduces costs.

**We can connect more renewables to the grid at lower costs.**

BEST PRACTICE USA