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ERRA Workshop

RENEWABLE COLLECTIVE SELF-CONSUMPTION: ENERGY COMMUNITIES AND MINI GRIDS

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ERRA ENERGY REGULATORS REGIONAL ASSOCIATION

Energy Communities and Electricity Sharing in Czechia (CZ)

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Legal Bbackground and History

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2023	2024	2025	2026

1. 1. 2023

Electricity sharing in apartment buildings

Model **introduced in market rules decree created by the NRA (secondary legislation)**

Only for sharing within **apartment buildings**, i.e. without the use of TSO and DSO grids

Sharing is evaluated by DSOs

1. 1. 2024

Electricity sharing of active customers and members of energy communities and communities for RES

Amended Energy Act (primary legislation) introduces active customers, energy communities, communities for RES and electricity sharing in general

Sharing is evaluated by EDC (electricity data center – newly established regulated subject)

1. 9. 2024

EDC starts to operate and to

- register electricity sharing groups
- evaluate the amount of shared electricity based on a model described by market rules decree amended by the NRA

2026 further improvements

In 20206 we hope for further improvements of the electricity sharing model, mainly **of the allocation key**

Who can share electricity in CZ?

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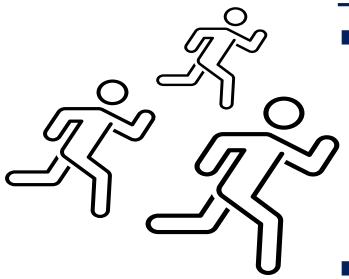
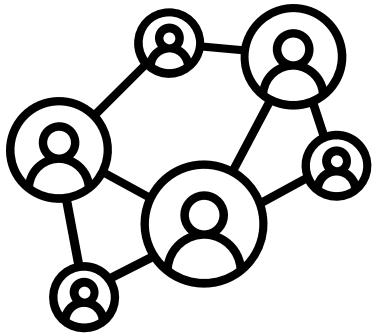


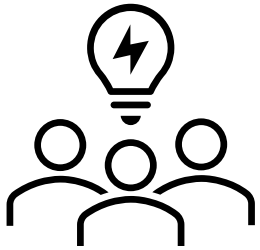
Active customers

- Up to **11 points** of supply or consumption connected to the grid in one electricity sharing group **without any geographical limitation**.
- Up to **1000 points** of supply (typically rooftop PV) or consumption connected within one **apartment building**.



Electricity sharing groups

- Can be **formed by active customers or by communities**.
- **Must be registered by EDC** together with the rules for allocation of shared electricity (allocation key parameters).
- **EDC evaluates centrally** the amount of shared electricity within electricity sharing groups and passes the results to the market operator for the settlement of imbalances and to DSOs and suppliers for invoicing.



Energy communities / Communities for RES

- Up to **1000 points** of supply or consumption in each electricity sharing group **with minor geographical limitations**.
- Must be a **non-profit legal entity** ensuring democratic voting rights to all its members.
- Can **provide other services** to its members, e.g. consulting and advisory, energy audits, ...
- **Need to be registered by NRA** (*approximately 50 communities were already registered*).

Electricity sharing model in CZ

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	Implementation options	Chosen for implementation in Czechia
Institutional and generation limitations	• Only for members of organized and registered communities • Only for independent active customers • For both, independent active customers and communities • For all generation types • Only for selected generation types, e.g. RES, decentralized,…	**For both, active customers and communities** **For all generation types**
Size limitations	• Limited number of customers in one electricity sharing group • Unlimited number of customers in one electricity sharing group • Each customer can participate only in one electricity sharing group • Each customer can participate in more electricity sharing groups	**Limited number of customers in one electricity sharing group** *For communities up to 1000 customers, for independent customers up to 11 customers but up to 1000 in an apartment building* **Each customer can participate only in one electricity sharing group**
Regional limitations	• Regional limitations for communities • No regional limitations for communities • Regional limitations for active customers • No regional limitations for active customers	**Partly regionally limited for communities** **Regionally unlimited for active customers**
Allocation model	• Static allocation key defined by fixed % only • Static allocation key defined by % that can change during the year • Dynamic allocation key defined by consumption • Combined allocation key: 1st static round, 2nd dynamic round	**Combined allocation key** *For small groups up to 50 customers static allocation can be computed in 5 iterations which approximates static allocation key combined with dynamic key. For larger groups only static allocation key.*
Administration and settlement	• Decentralized, evaluated by active customers and energy communities • Partly decentralized, evaluated by individual DSOs • Centralized, evaluated by one entity – MO, DataHub, etc.	**Centralized** *evaluated by newly established entity called Electricity data center (EDC) closely cooperating with the Market operator (MO) and with DSOs*
Tariff savings	• The amount of electricity shared does not impact tariff payments • Simple impact on tariff payments depending on 0/1 usage of the grid • Complex impact on tariff payment depending on distance	**Simple 0/1 impact depending on the usage of the grid:** *Only when sharing within apartment buildings, customers save also the regulated part of the bill.*

Examples how various types of electri sharing groups can be registered by ED

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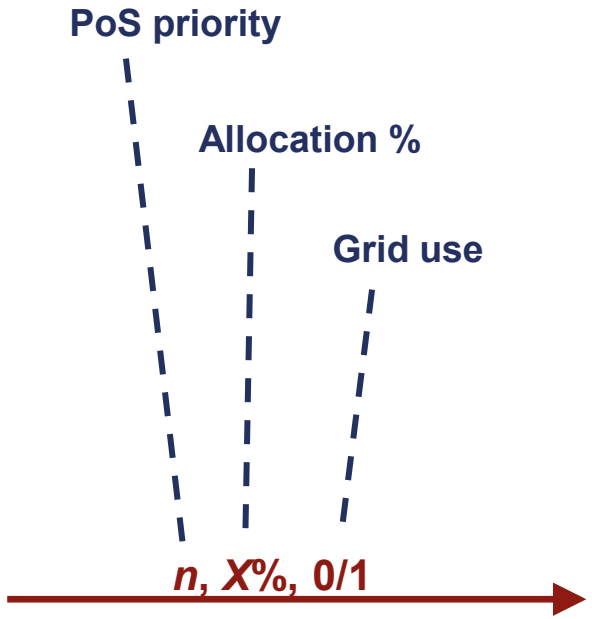

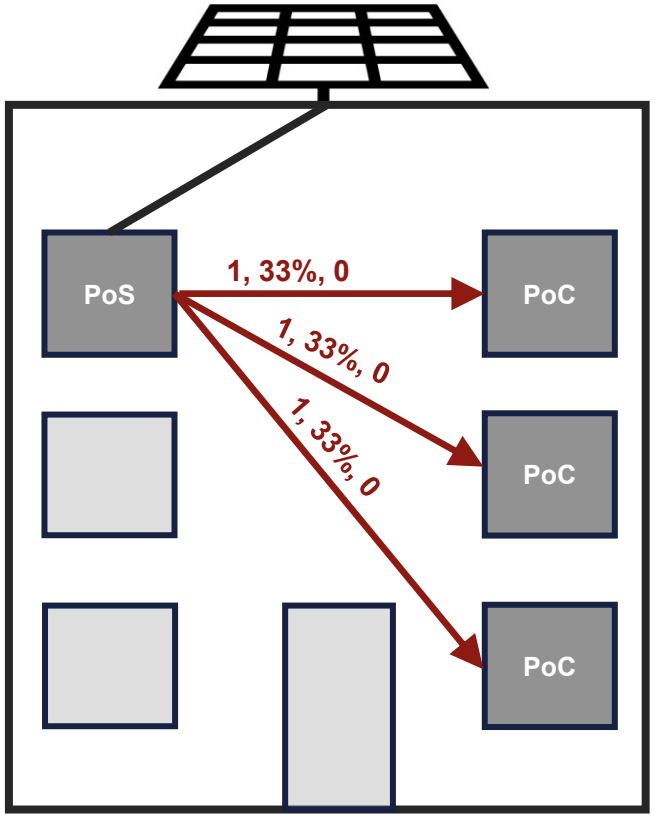

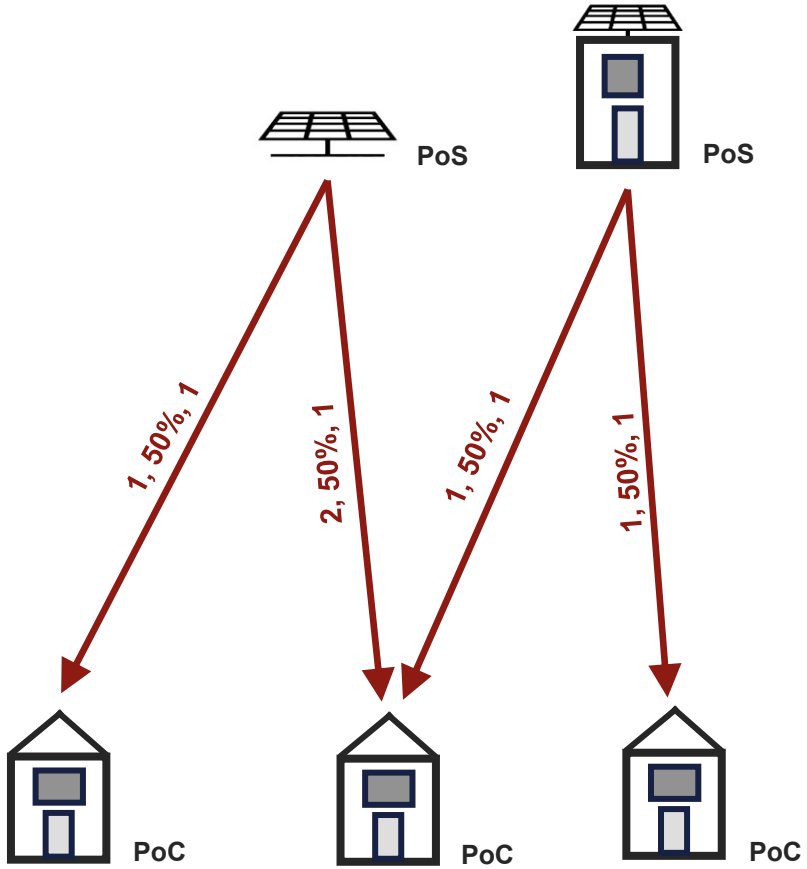

Simple example of electricity sharing in an apartment building

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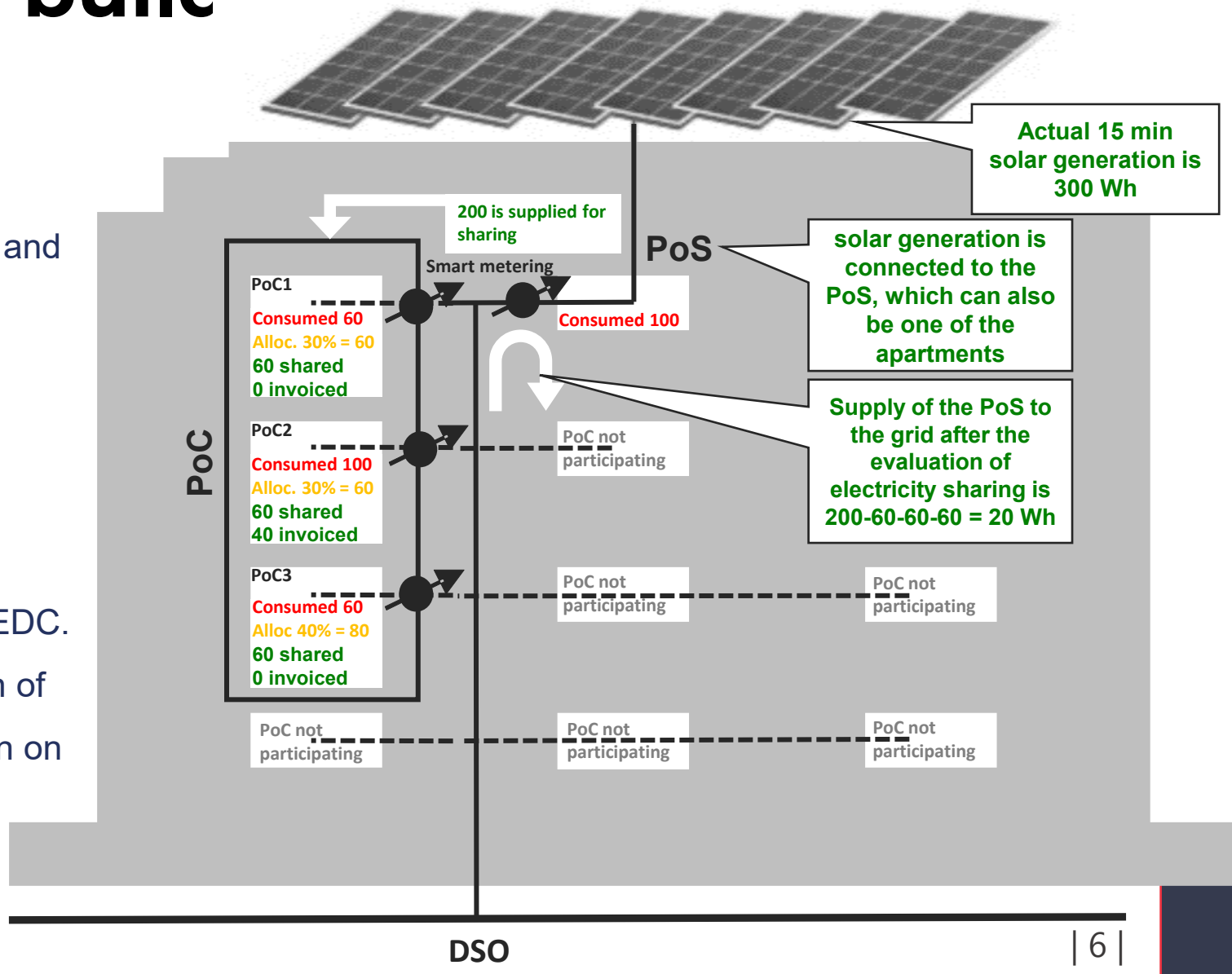
Basic principles:

- Registration of metered supply points (PoS) and consumption points (PoC) by EDC.
- Registration of the % allocation key by EDC.
- 15 min evaluation of shared electricity.
- Settlement of imbalances and invoicing of consumption and supply is automatically corrected for shared volumes evaluated by EDC.
- Customers can choose iterative computation of the allocation of shared electricity (not shown on this picture).



Total No. of PoS and PoC in electricity sharing groups registered in EDC

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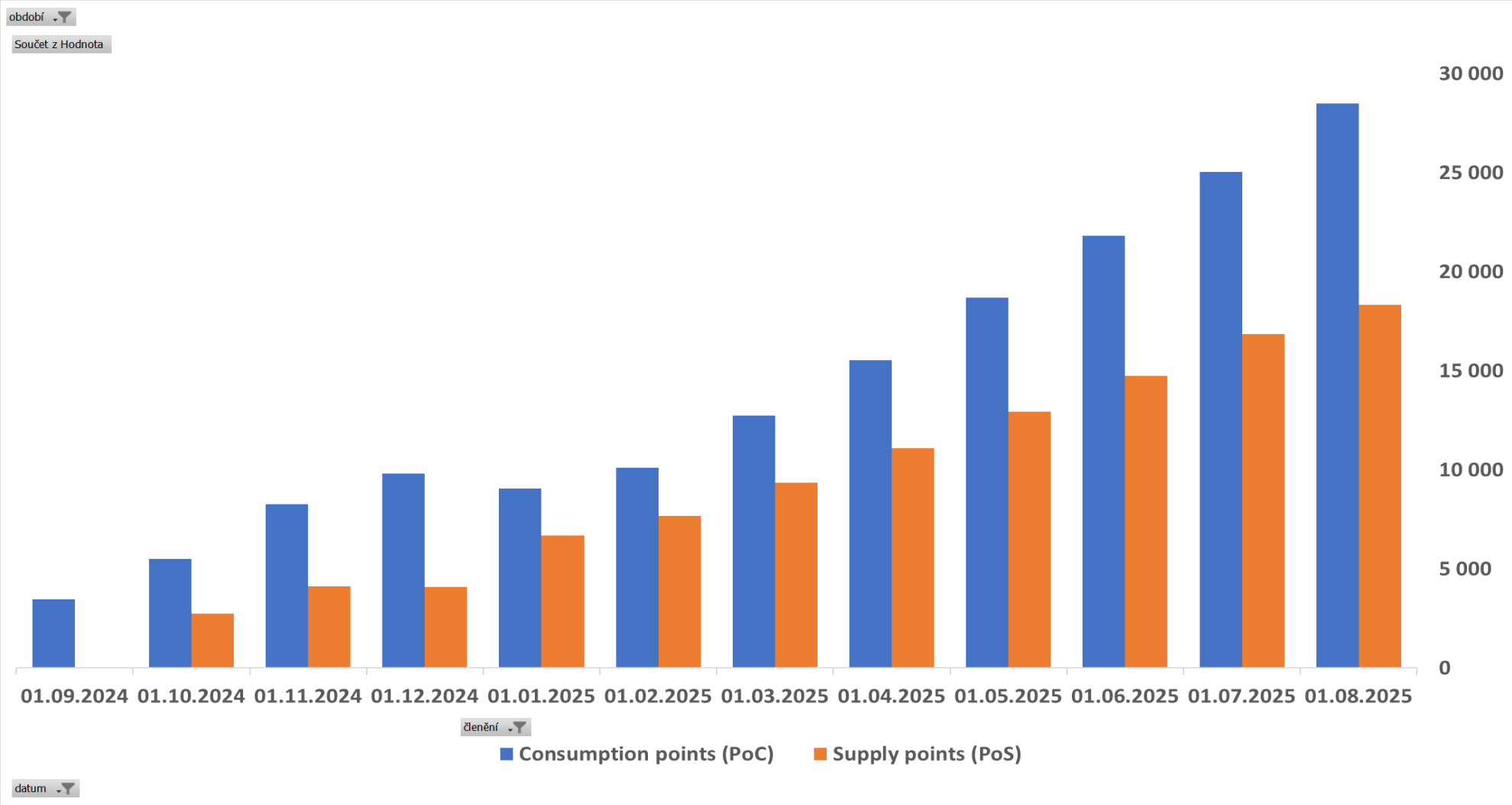

Total volume of shared energy in CZ

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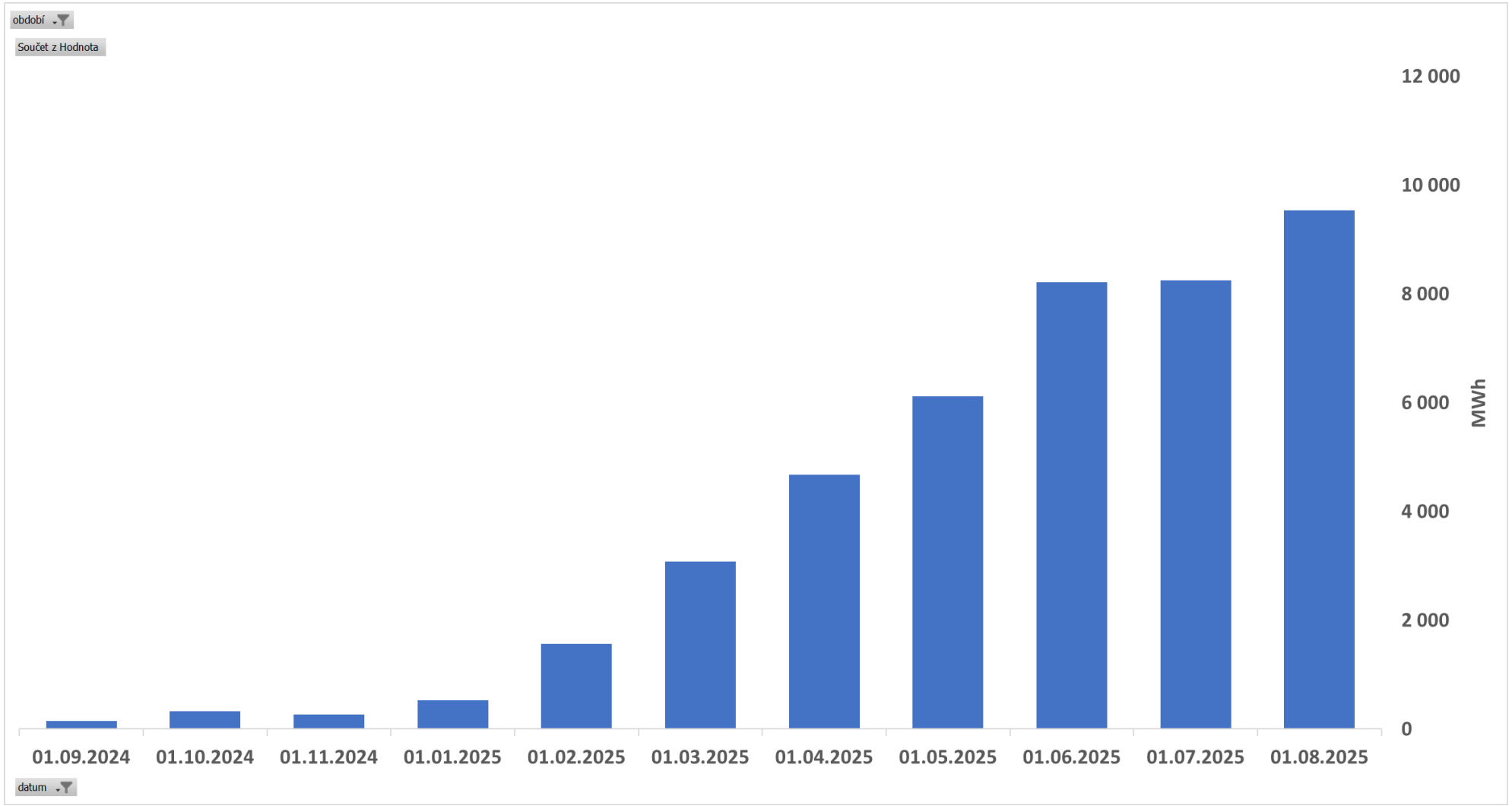

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THANK YOU
FOR YOUR ATTENTION!

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