

THE SECOND CZECH SOLAR BOOM ... FINALLY?

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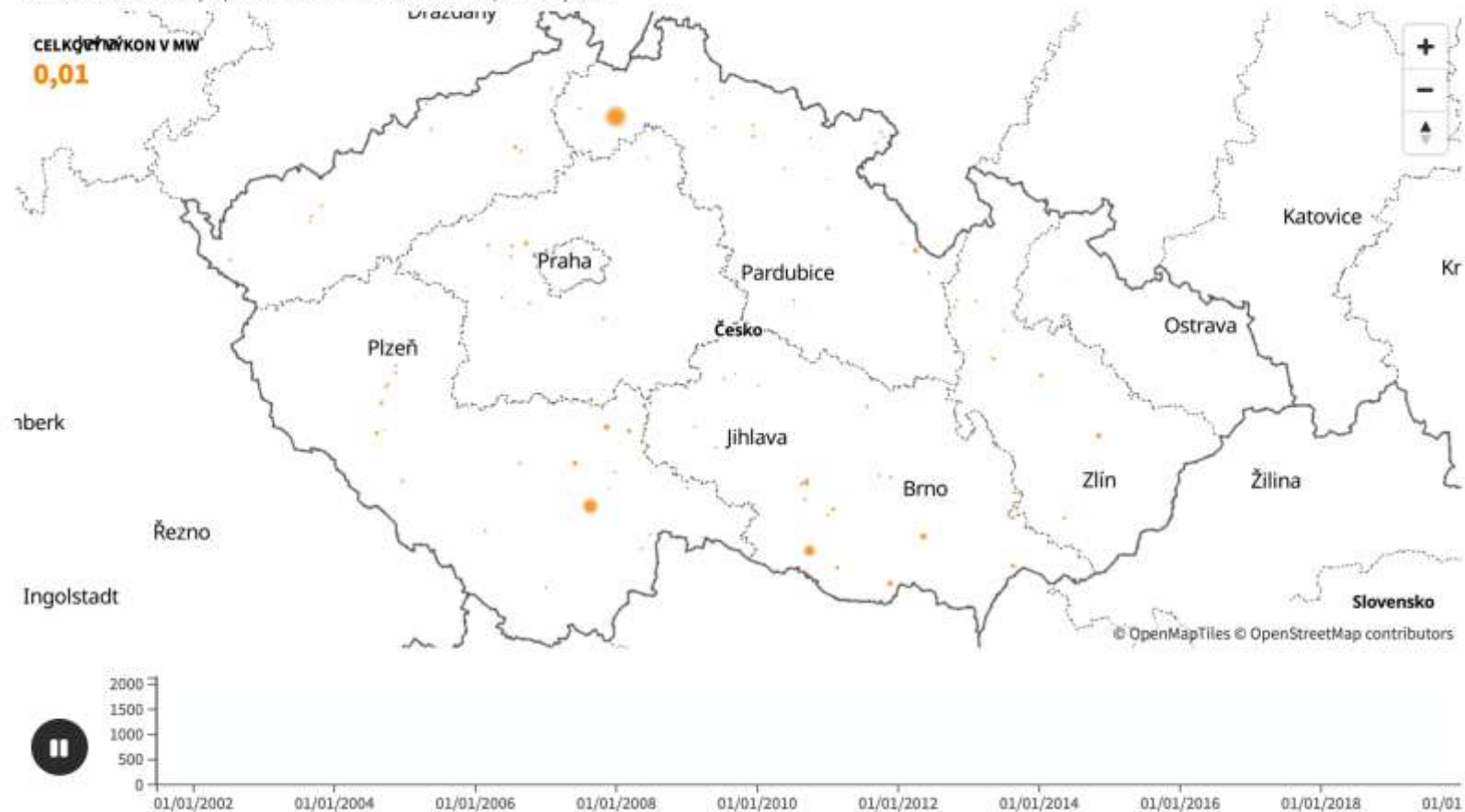
SOLÁRNÍ ASOCIACE
SLUNCE • ENERGIE • AKUMULACE



WE ALREADY HAD A SOLAR BOOM: 2009-2010

Jak v Česku přibývalo solárních elektráren

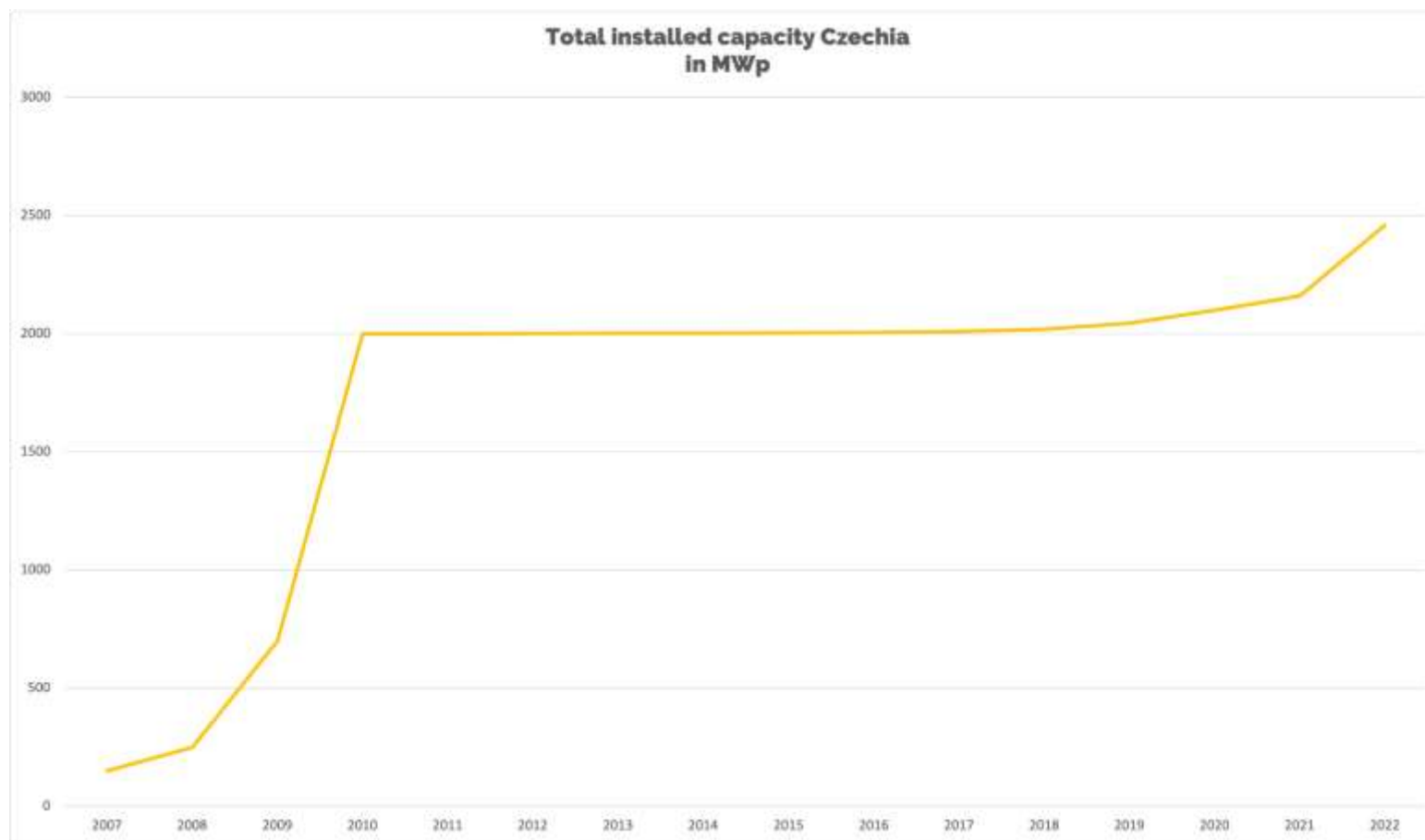
Fotovoltaické elektrárny s platnou licenci. Velikost bodu odpovídá výkonu



Zdroje: Energetický regulační úřad, Český úřad zeměměřičský a katastrální

A Flourish data visualization

AFTER THE BOOM: ALMOST NOTHING



Solar progress in CZ

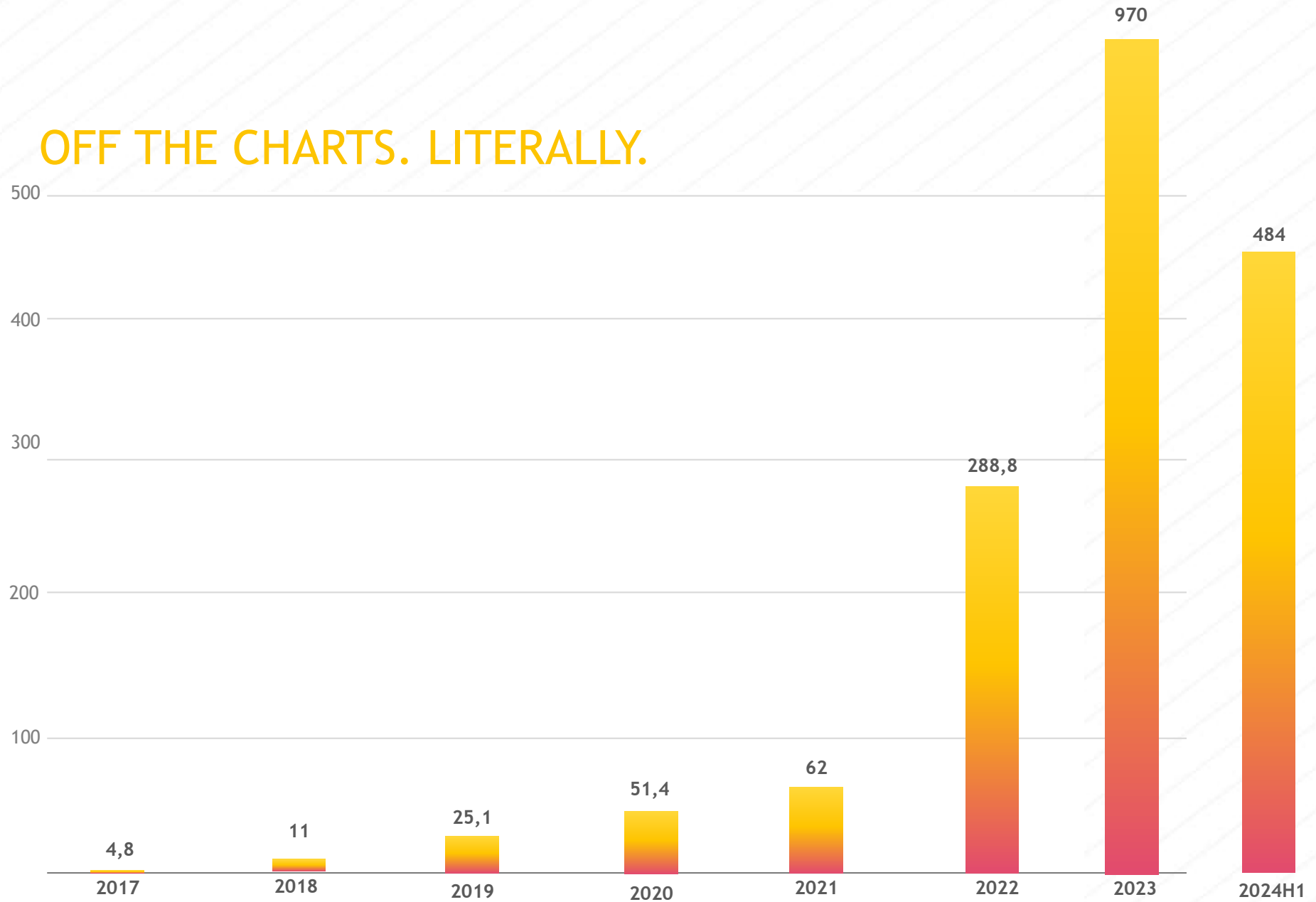
970 MWp
total added capacity in 2023

484 MWp
total added capacity in 2024H1

82 799
number of power plants commissioned in 2023

24 000
number of power plants commissioned in 2023H1

OFF THE CHARTS. LITERALLY.



The Czech market is still dominated by residential solar.

In terms of added capacity the first larger projects are making a mark.



10.7 kWp
average size of project in 2023 (8,6 kWp in 2022)



< 10 kWp:
42 841 pcs, totalling 343 MWp
(2022: 32 909 pcs / 237.3 MWp)
94.8% of all new projects
71% of all added capacity



10 - 100 kWp:
2 249 pcs, totalling MWp
(2022: 851 pcs / 51.5 MWp)
5% of all new projects
12% of all added capacity



100 - 1000 kWp:
94 pcs, 33.1 MWp
(2022: 66 pcs / 28.2 MWp)
0.2% of all new projects
7% of all added capacity



> 1 MWp:
13 pcs, 51.1 MWp
(2022: 2 ks / 2.6 MWp)
0.03% of all new projects
10% of all added capacity

TOTAL AMOUNT OF PV POWER PLANTS IN CZECHIA



Total PV capacity
per 01/2024



167 000 PVP



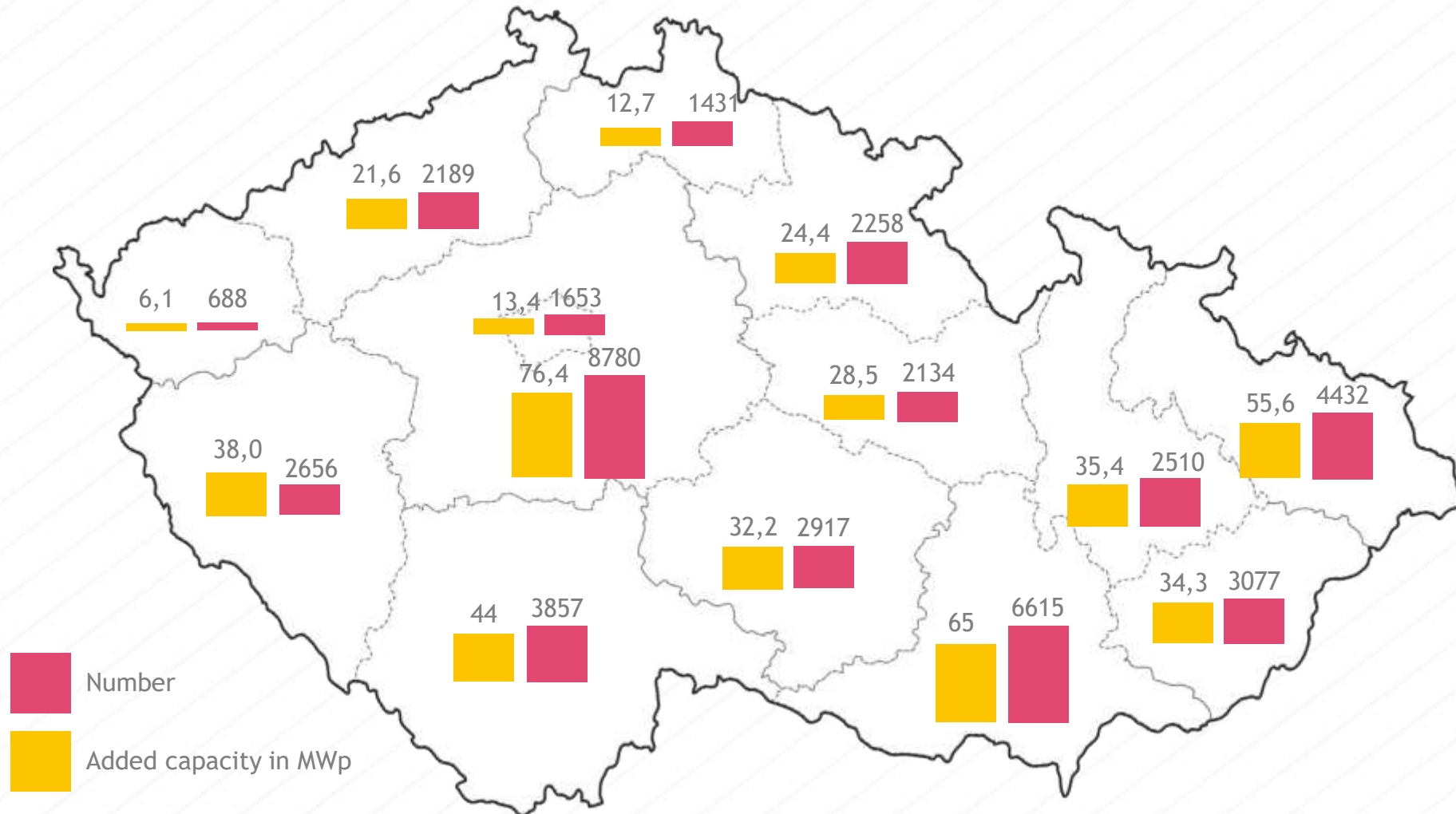
3.45 GWp installed capacity



Storage totalling 1035 MWh



BUT HOW FAST ARE WE ADDING SOLAR REALLY?



STILL LAGGING BEHIND

Czech PV market is still growing slower than in other countries



REASONS TO BE CHEERFUL



Heavily industrialised country: large electricity demand

Modernisation fund: billions of EUR available



Large amount of (future) brownfields available

Energy sector will need to be decarbonised



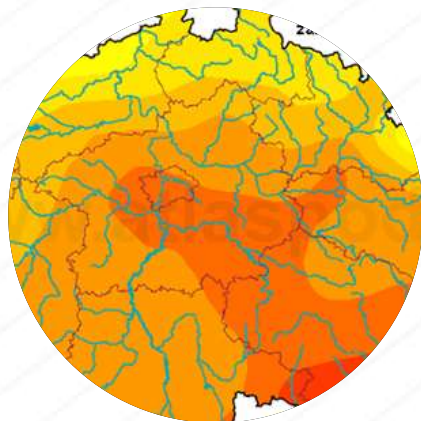
REASONS TO BE FEARFUL



Barriers might not be removed quickly enough: not enough energy by 2030.



Storage might not be used effectively resulting in solar not being commercially viable.



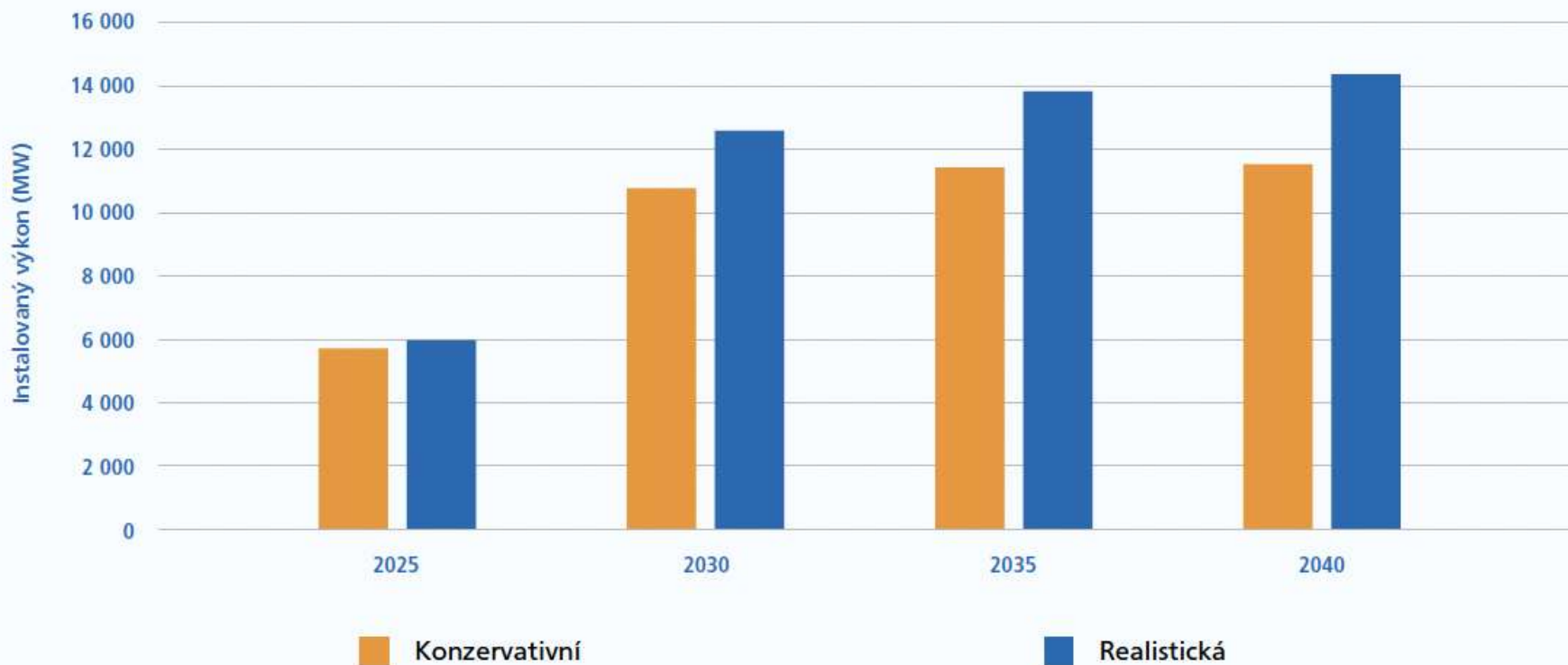
Go-To-Zones might turn out to be blocked by local politicians.



Economy will be impacted negatively: without energy from RES companies might leave Czechia.

MARKET OUTLOOK: DIFFERENT SCENARIOS

Obr. 3.7 Predikce instalovaného výkonu FVE



	2025	2030	2035	2040
Konzervativní	5 665 MW	10 712 MW	11 357 MW	11 457 MW
Realistická	5 933 MW	12 516 MW	13 749 MW	14 297 MW



BARRIERS

Social acceptance

Grid connection

Municipality involvement

Lack of regulation

Permitting process

CEE Region - Similar problem - Searching places for solar power plants

Commercial rooftops PV?



PV for Households?



Floating-PV



Large-scale PV



Agrivoltaics



We need all these types, but considering LCOE, time, grid connection/capacity, permitting process, etc.

We really need to speed up...



...if we still want a competitive and successful country!

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THANK YOU FOR
YOUR ATTENTION!

