

ENERGY STORAGE. The Grid’s Reliable Partner

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DTEK RENEWABLES IN NUMBERS

Wind, solar and energy storage in Ukraine



>1,3 GW

Installed capacity wind, solar and BESS



650 MW

DTEK Poltavska WPP Under development

200 MW / 400 MWh

6 BESS

€85 mln

US DFC loan Approved for BESS

€125 mln

Invested in BESS

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UA–MD LFC BLOCK REGULATION QUALITY: PERSISTENT UPWARD REGULATION SHORTAGE

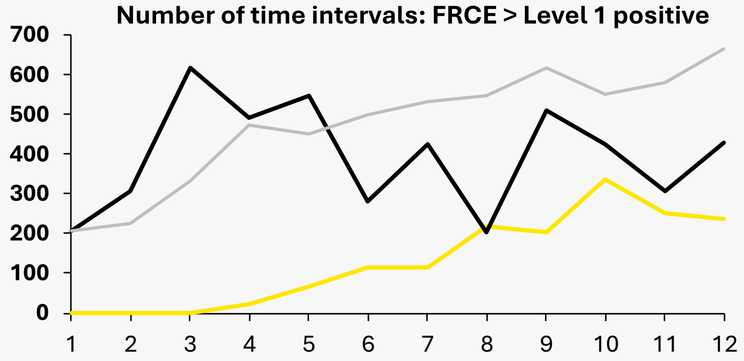
The objective behind the level 1 and level 2 parameters is to provide quality targets for the individual Area Control Error (ACE) quality of each LFC block. Since it is the responsibility of each TSO in its LFC block to keep ACE as low as possible, the level 1 and level 2 parameters must not be exploited in order to reduce reserves or reserves activation. These parameters should be interpreted as an absolute warning limit that shows that quality of ACE is below the required standard and that respective countermeasures have been reported and will be implemented urgently.

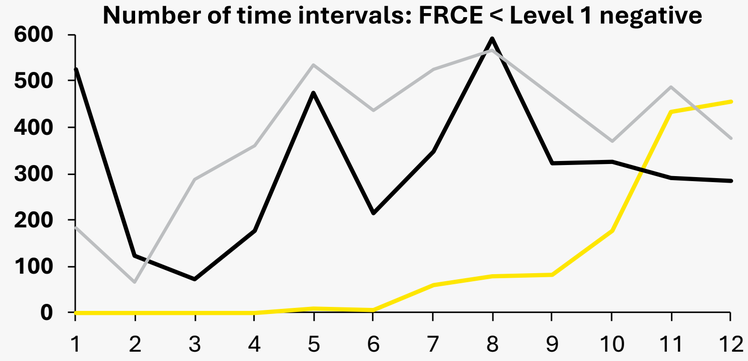
Frequency Regulation Control Error (FRCE) regulation by years and months

UA-MD Level 1 target parameters: from ± 123 MW in 2022 to ±73 MW in 2024

Exceeding L1 occasionally is tolerated, but there is a yearly cap on how often this may happen. When FRCE leaves the L1 range, the LFC (aFRR controller) should already be acting to bring it back.

2022 2023 2024

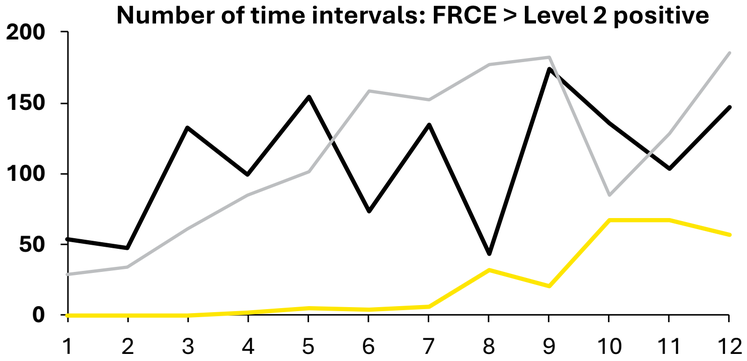


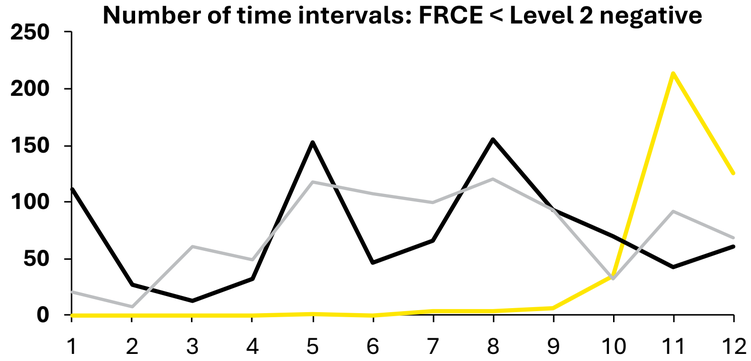


UA-MD Level 2 target parameters: from ± 233 MW in 2022 to ±153 MW in 2024

Maximum acceptable magnitude and duration of ACE excursions set annually so that if the Level 2 limit is violated, TSOs must investigate and implement corrective measures to restore ACE quality.

2022 2023 2024



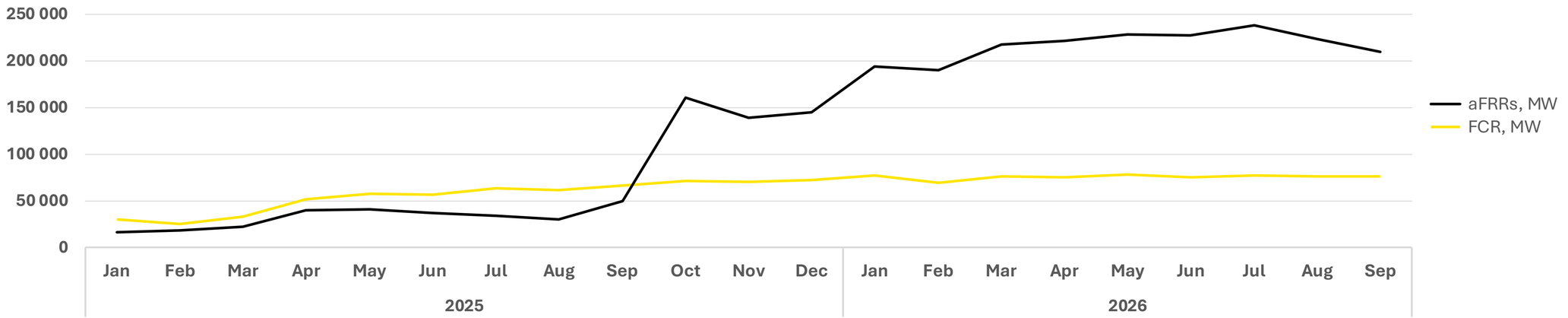


Sources: ENTSO-E Annual Load-Frequency Control Report 2024, 2023 and 2022

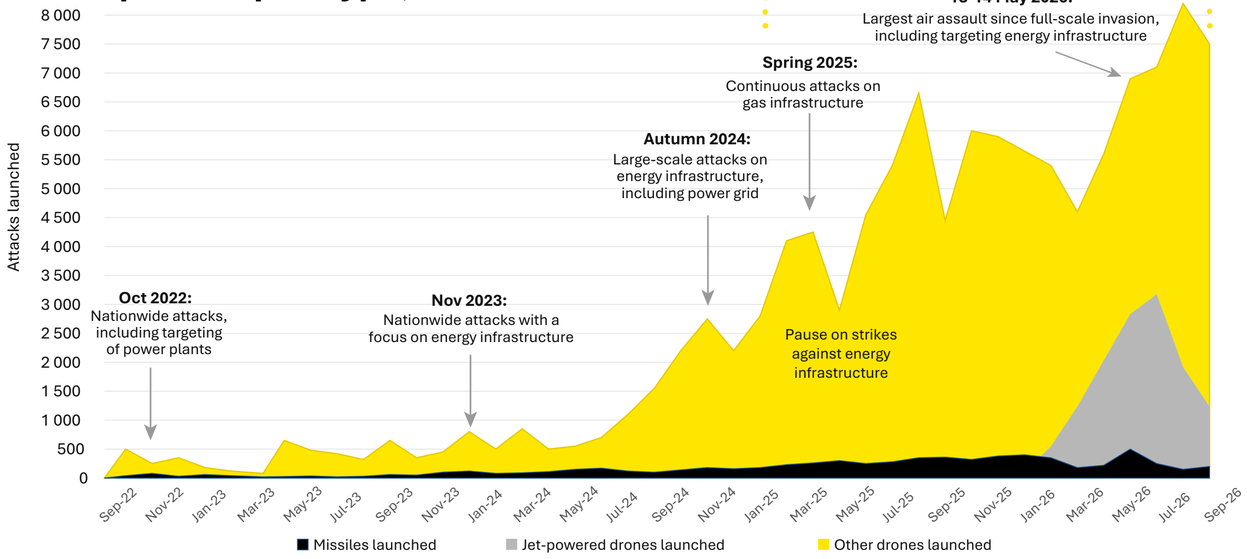
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WELL DESIGNED A/S AUCTIONS RAISED A BATTERY SHIELD

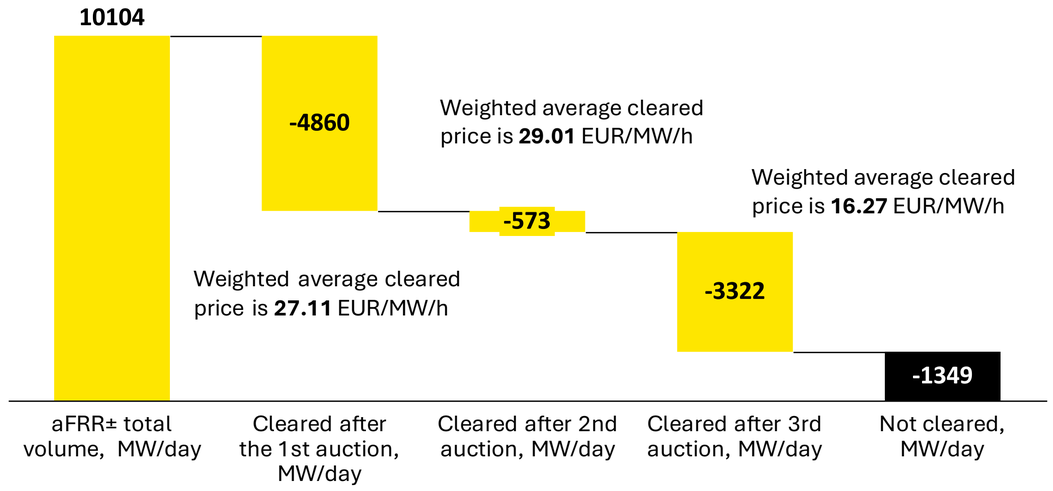
Reserves volume procured by TSO in 2025 and 2026



Monthly Russian attacks on Ukraine per weapon type, 2022-2026

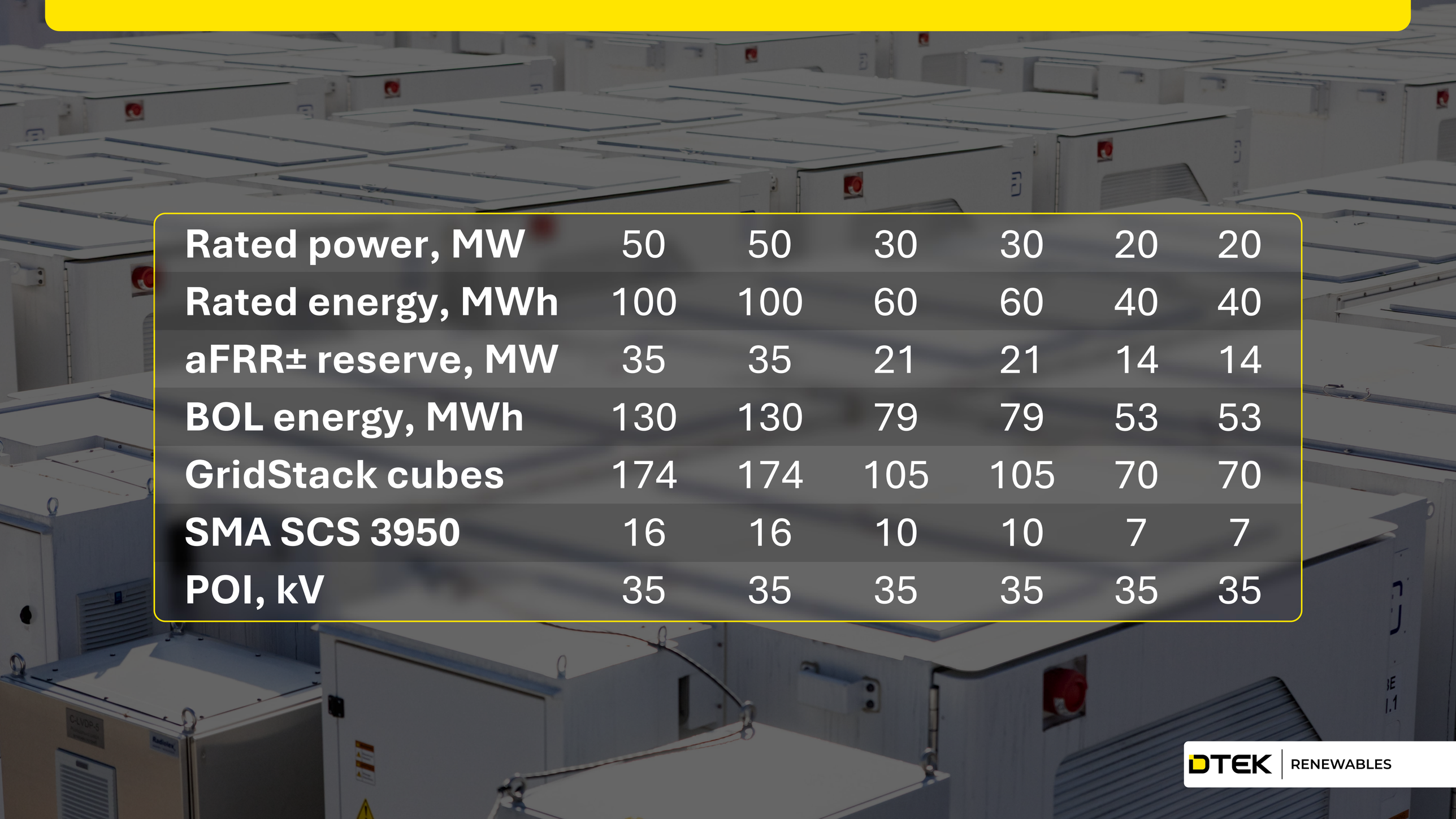


aFRR up/down long-term auctions results



Sources: IEA analysis based on the dataset available on kaggle (Massive Missile Attacks on Ukraine - Data Review 2026), on drone and missile attacks by the Ukrainian Ministry of Defence

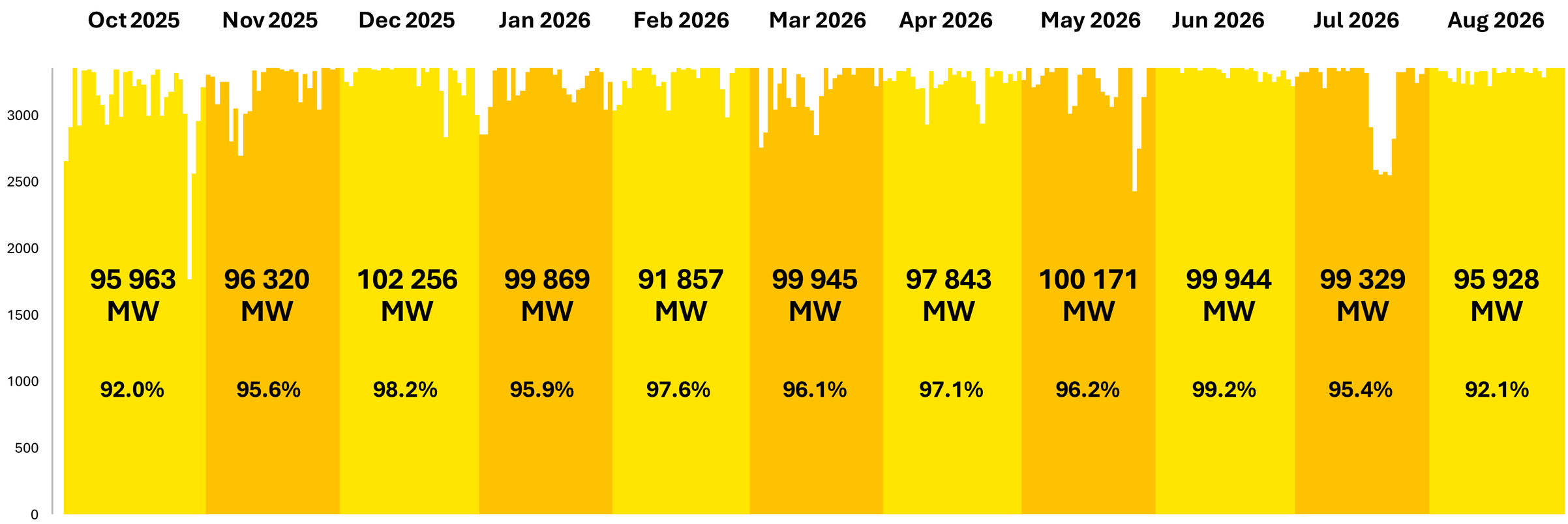
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Rated power, MW	50	50	30	30	20	20
Rated energy, MWh	100	100	60	60	40	40
aFRR± reserve, MW	35	35	21	21	14	14
BOL energy, MWh	130	130	79	79	53	53
GridStack cubes	174	174	105	105	70	70
SMA SCS 3950	16	16	10	10	7	7
POI, kV	35	35	35	35	35	35

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PROOF OF LIFE: 1087 GW AFRR ± DELIVERED, 96.6 % SUCCESS RATE



Over a 335 days period (from 01/10/2025 to 31/08/2026) six BESS units delivered 1 087 GW of aFRR± reserve, achieving a 96.6% delivery success rate despite heavy stress on Ukrainian power grid. Maximum theoretical possible delivery is 3 360 MW per day.

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SMARTEST PATH
TO GRID FLEXIBILITY.
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