



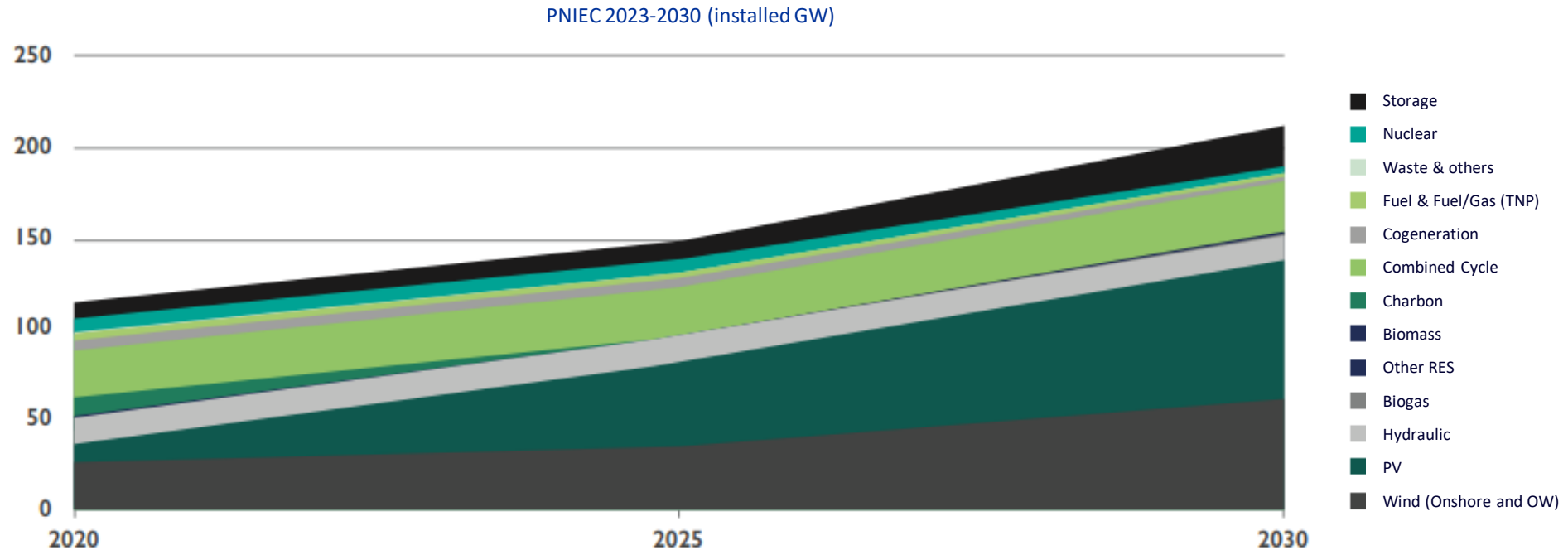
Energy Storage the Spanish case

Coniben 2025

Lisboa 28th November 2025

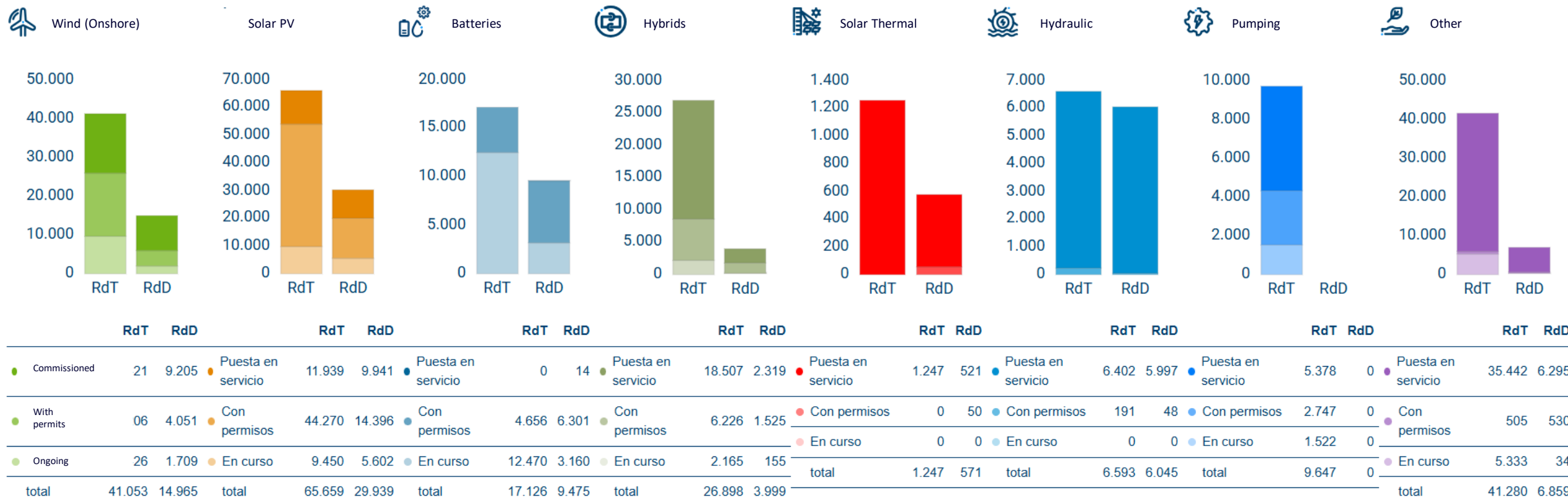
The ground floor

- The country National Integrated Plan for Energy and Climate (PNIEC 2023-2030) is ambitious
 - Reducing by 55% of 2005 emissions
 - Increasing the energy efficiency up to a 43% from 2007 by 2030
 - Increasing the penetration of renewables up to 48% of total consumption by 2030
 - 81% of generation from renewables
 - +105GW of RES from 2023 (up to 160 GW of renewables by 2030)
 - 62GW Wind (3GW OW)
 - 76GW PV (19 GW SC)
 - 22,5 GW of energy storage (c.12GW from BESS)
 - 19 GW self consumption
 - 12 GW electrolyzers
 - 3,2 GW nuclear
 - Coal phased out



Meeting the generation targets

- The market has been meeting the targets in generation



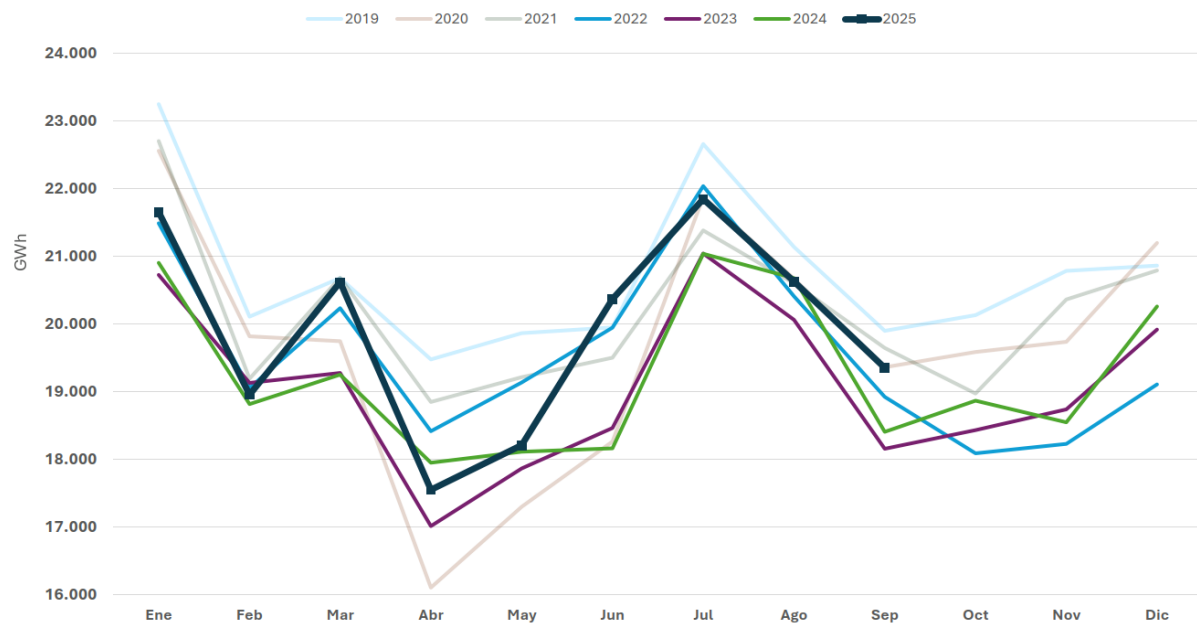
RdD: Distribution grid
RdT: Transport grid

- The energy demand is not increasing at same speed as generation

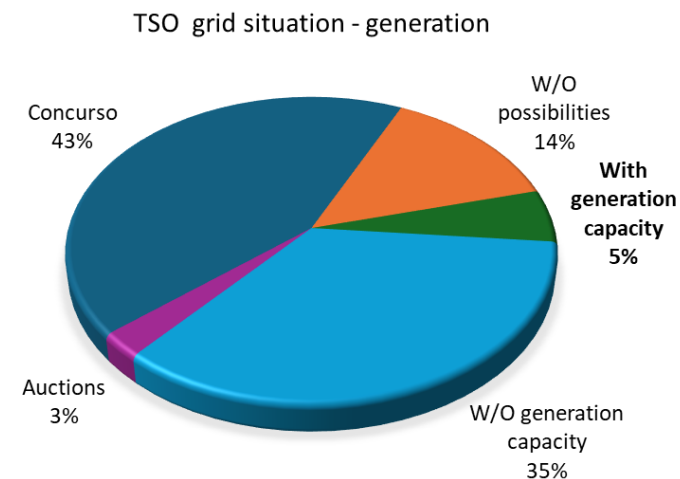
- And the grid is blocked, also because of political reasons

Available capacity at TSO:

- Generation 5% of the nodes (1,3GW)
- Demand 7% (3,2GW)



Source: AEE Sept. 2025



Source: REE Nov. 2025

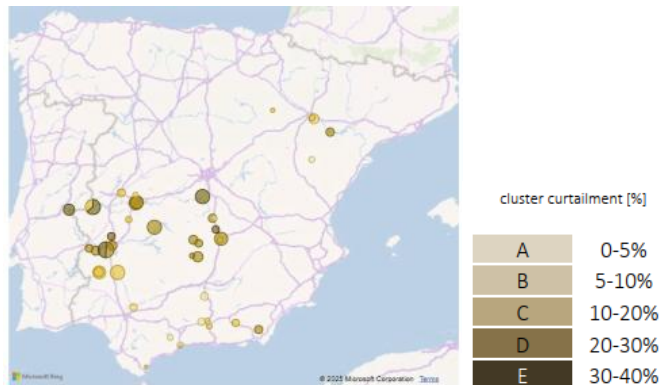
Current implications in the market

- Generation capacities outpassed the demand
- The large consumers (i.e. DataCenters and Industries getting electrified) have no access to the grid

Curtailement increased

- It depends on the location although it is frequently widespread

Solar PV

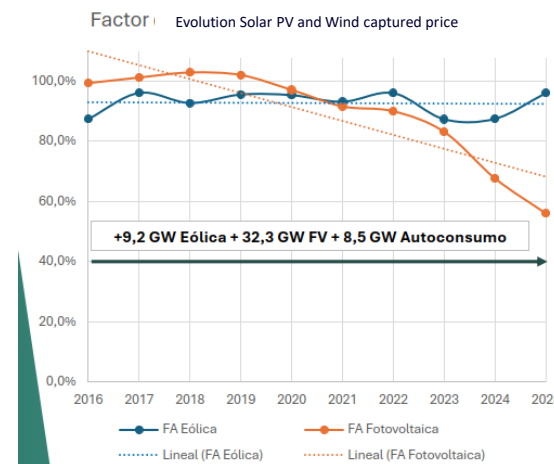


Wind



Solar PV and Wind captured price declined:

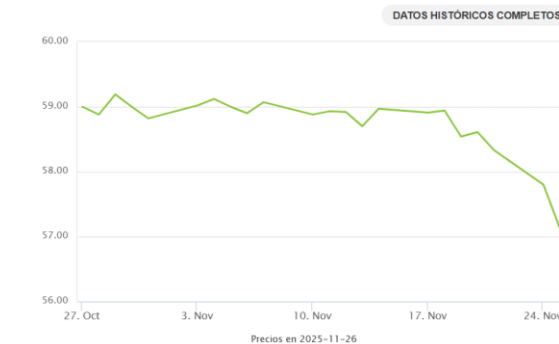
- Finance for non-PPA has dried up
- 100% merchant structures have disappeared



Próximos Contratos

SPEL BASE	€98.73	✓
Wk49-25	€58.00	✓
Dec-25	€62.40	✓
Q1-26	€58.75	✓
YR-26	€56.40	✓
PPA-26/35	€56.20	✓

Power Spain Base Load - PPA-26/30



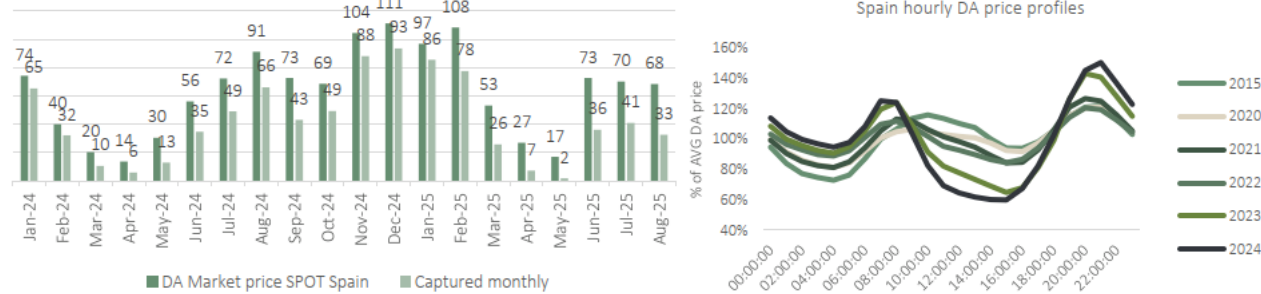
Contratos Siguientes

PPA-26/30	€56.43	✓
PPA-27/31	€56.36	✓

The role of Energy Storage

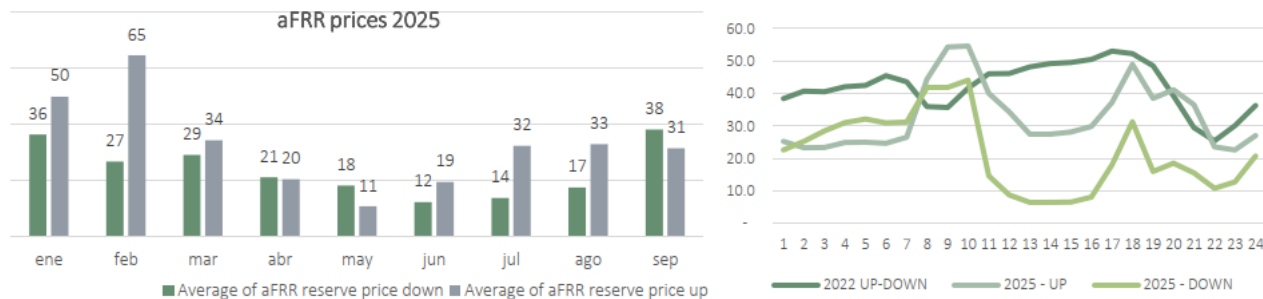
- Falling captured prices and volatile services highlight the growing need for storage and flexibility strategies

Spot price vs PV Captured DA Spot Price Spain €/MWh



Widening gaps between Day-Ahead and PV prices highlight solar cannibalization and monetization challenges

aFRR Reserve Band €/MW/hour

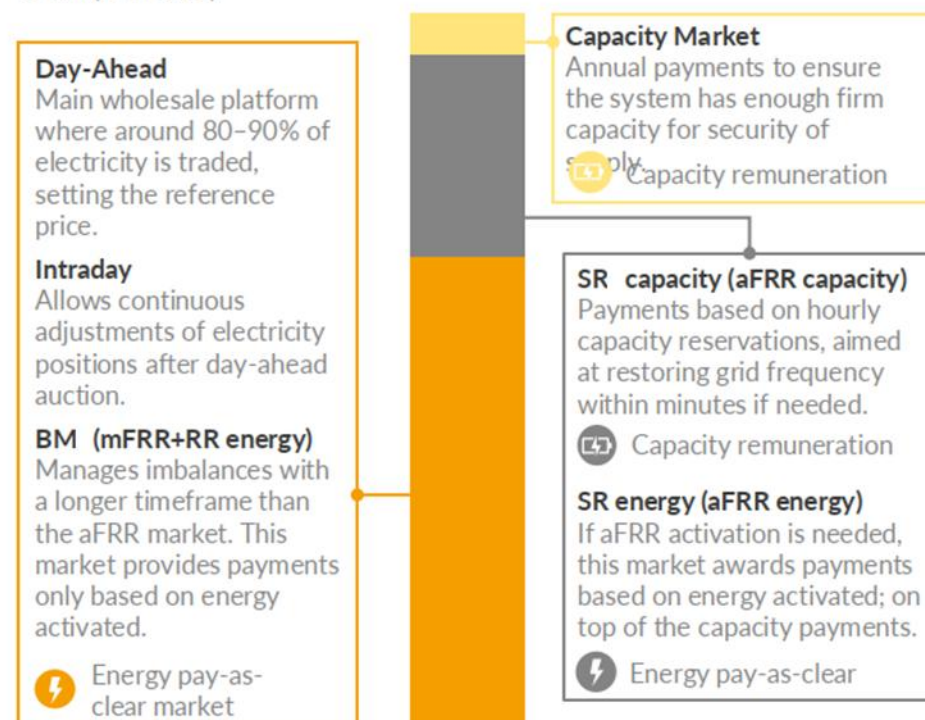


Secondary reserve prices fluctuate sharply, emphasizing the rising importance of flexibility and reserves in Spain

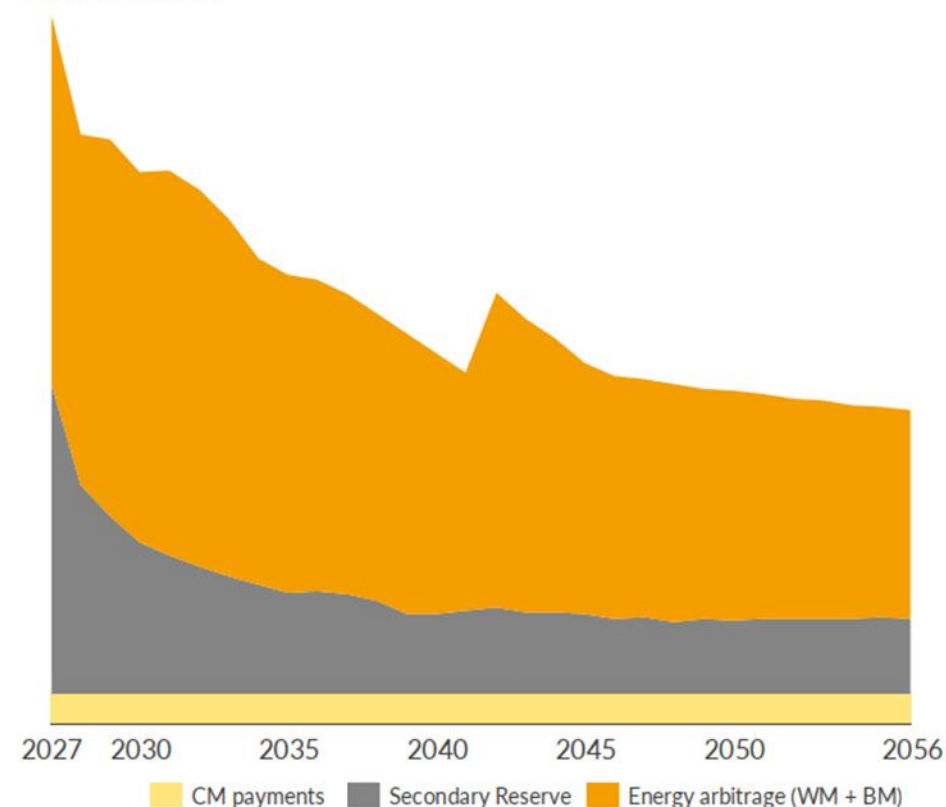
The value of Energy Storage

- Balancing markets cannibalization and new markets driven future business models
- From 2027, BESS can profit from new services leveraging its flexibility
- Considering +6GW of BESS by 2031, balancing markets will decrease due to cannibalization

PV of total gross margins for a 4h battery COD 2027
€/kW (real 2024)



Battery gross margins for a 4h battery COD² 2027
€/kW (real 2024)

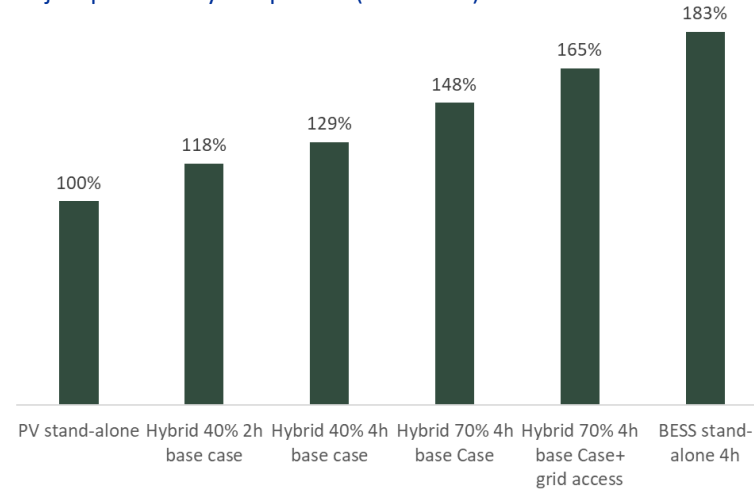


Source: AURORA Nov. 2025

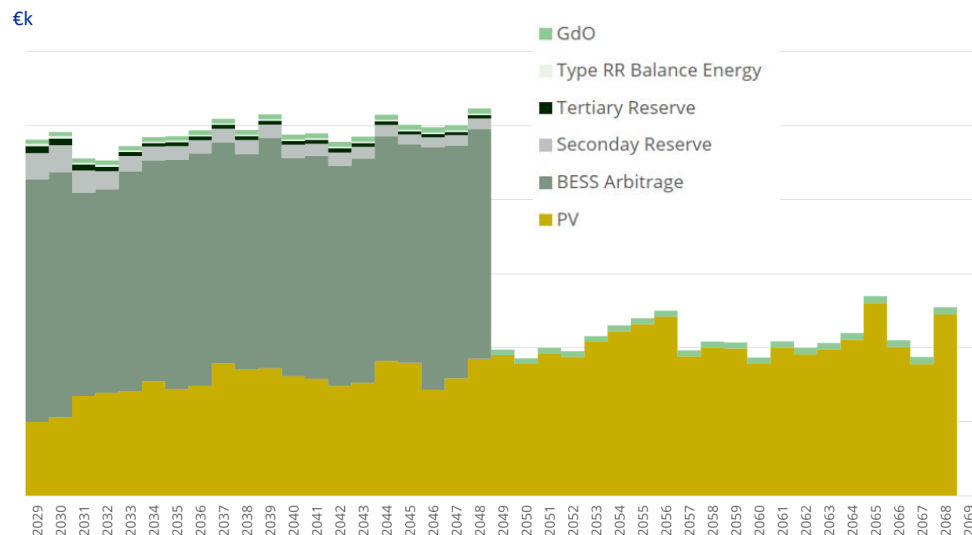
Applied Energy Storage to the real case

Even under a conservative scenario, battery hybridization would allow a PV project to become economically viable again

Project profitability comparison (50MW PV)



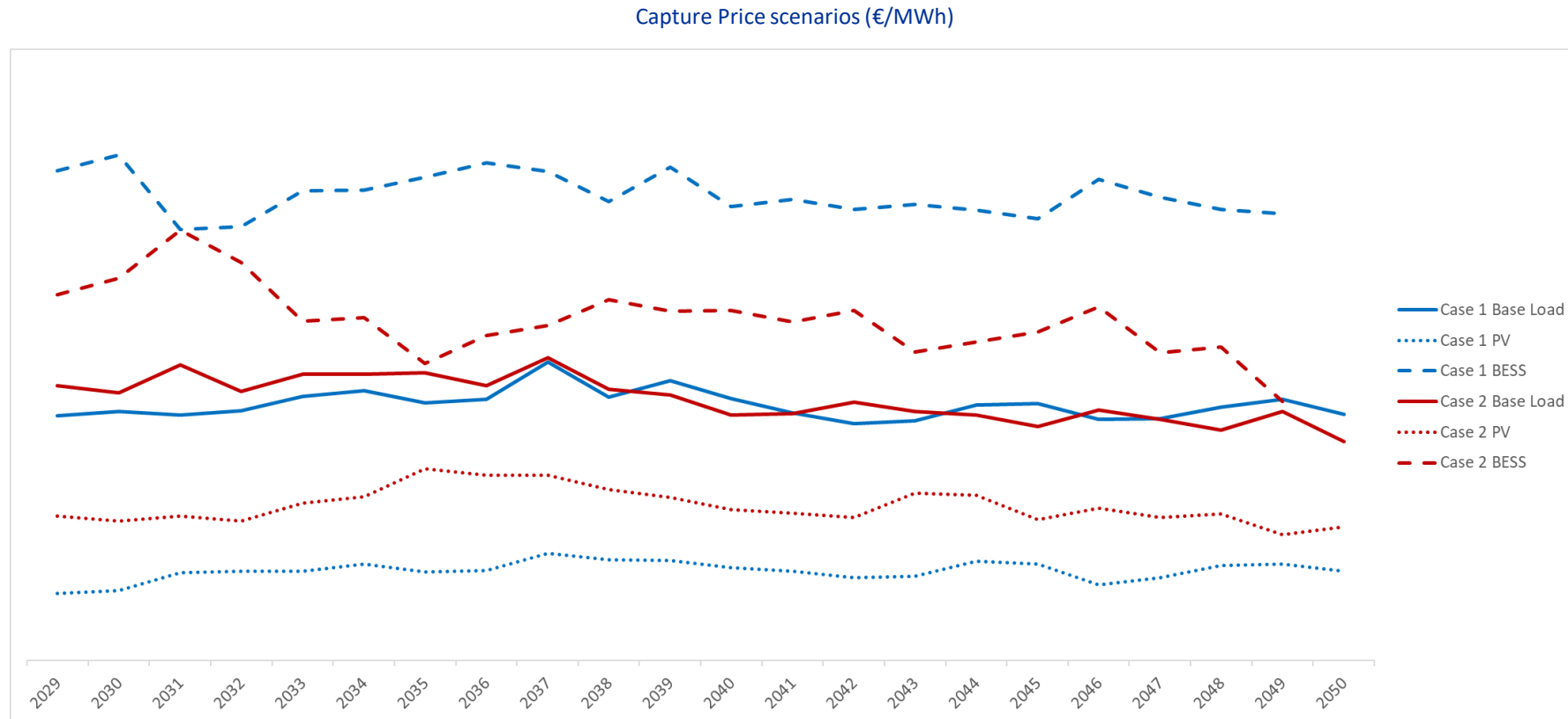
Revenue stack BESS/PV 70% 4h



- Hybridization
 - Returns:
 - Without grid imports, hybridizing PV and BESS boosts returns and increases project value versus stand-alone PV
 - When grid import capacity is enabled, an extra pick-up in return can be added
 - Access to finance:
 - Because of its load profile and captured price, new scenarios are opening to gest off takers onboard again, then, being able to finance the Project
- Stand-alone
 - It is the most profitable scenario, but performs below the hybrid case in low-volatility scenarios
 - PV+BESS with flexible grid access can reach similar profitability with higher operational stability
 - In Spain its dispatch priority order comes after renewables

The importance of the scenarios

As usual, the results are very dependent of the energy curves scenarios



Thank you !

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