



France BESS Dispatch - Case Study

Case Study Series

February 2026



Case Study Scope

This case study establishes a **feasible revenue baseline for a representative 10 MW / 20 MWh BESS** over a one-week operating horizon.

All results shown are **direct outputs from Forsyt's modelling suite**, executed and configured through Forsyt's client platform and API.

The simulation captures the **full energy and ancillary-service stack** used in commercial BESS operation in France, at **15-minute resolution**. Undelivered energy is settled at imbalance prices.



BESS Key Asset Features

Power Output	10 MW
Installed Capacity	20 MWh
SoC range	5% - 95%
Efficiency	93 to 98%, SoC-dependent
Tariff zone	TURPE 7 HTA CU PF



Modeled Market Features

Market / Country	France
Energy products	DA Power, ID Power (XBID), aFRR Energy, Imbalance
Capacity products	FCR, aFRR Capacity
Simulation Period	19-25 January 2026

Financial Summary

Key Results

Week from 19/01/2026 to 25/01/2026

Total PnL

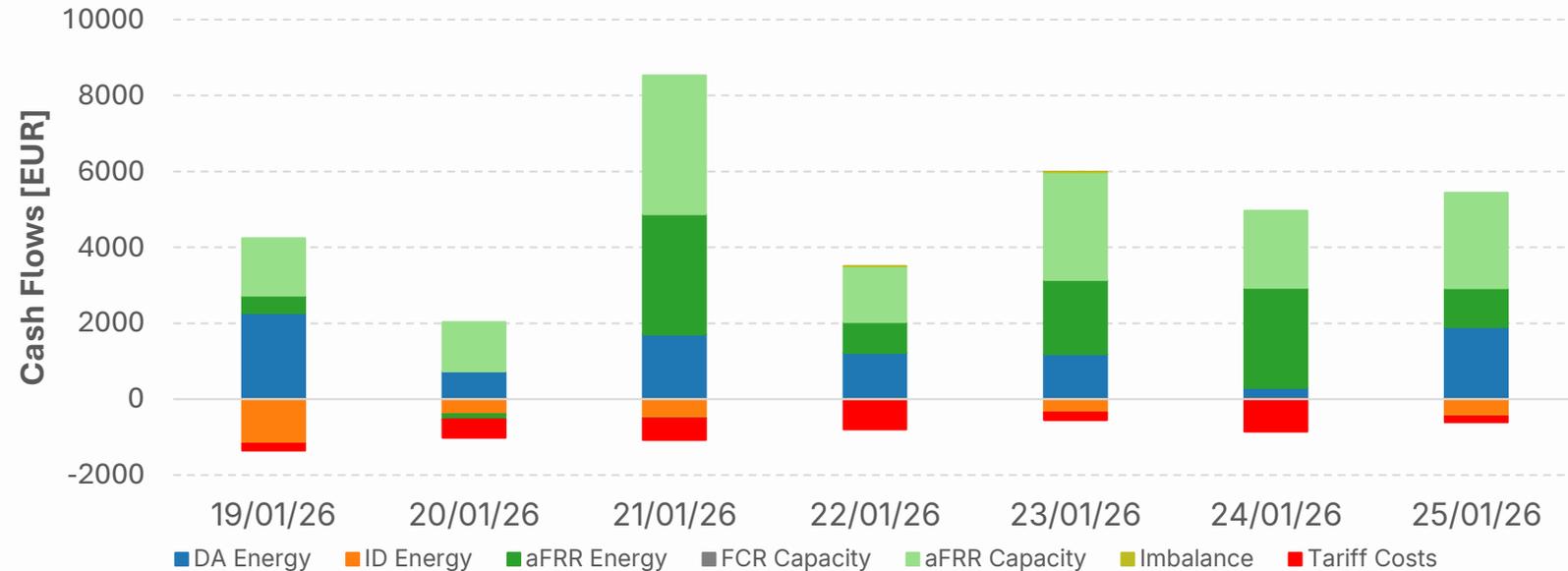
28 421,47 €

Total Throughput

253,91 MWh
(6,35 EFCs)

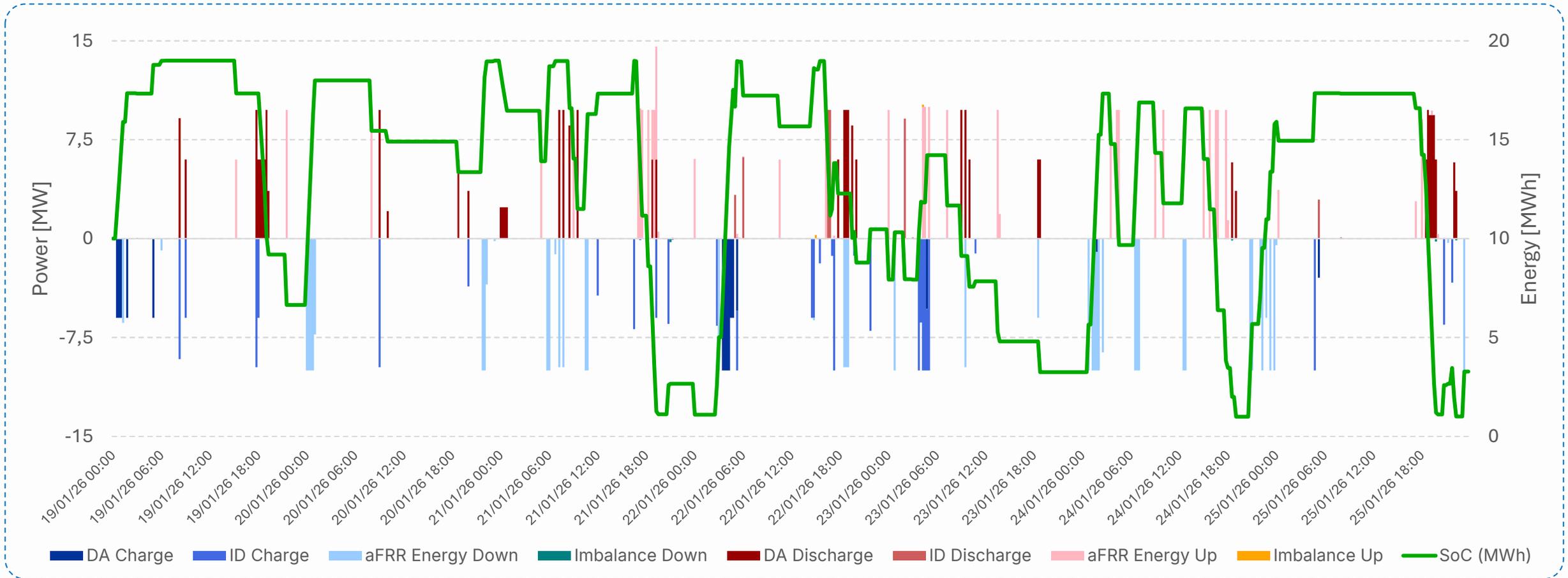
Attractive aFRR capacity prices and spikes in aFRR energy prices make up for limited spreads in DA prices this week.

Daily cash flows deep-dive



Daily Totals	19/01/26	20/01/26	21/01/26	22/01/26	23/01/26	24/01/26	25/01/26
PnL [EUR]	2 882,83	1 016,49	7 445,87	2 705,61	5 428,41	4 109,15	4 833,10
Throughput [MWh]	21,13	22,19	43,54	45,89	24,94	69,73	26,48

Power Dispatch and SoC



19/01 and 20/01 feature a low-throughput, capacity-driven strategy. aFRR energy price spikes on 21/01 to 24/01 drive opportunistic behaviour leading to revenues of c. 5K€ on average for the period. aFRR energy and DA markets dominate dispatch decisions.

Capacity and Physical Net



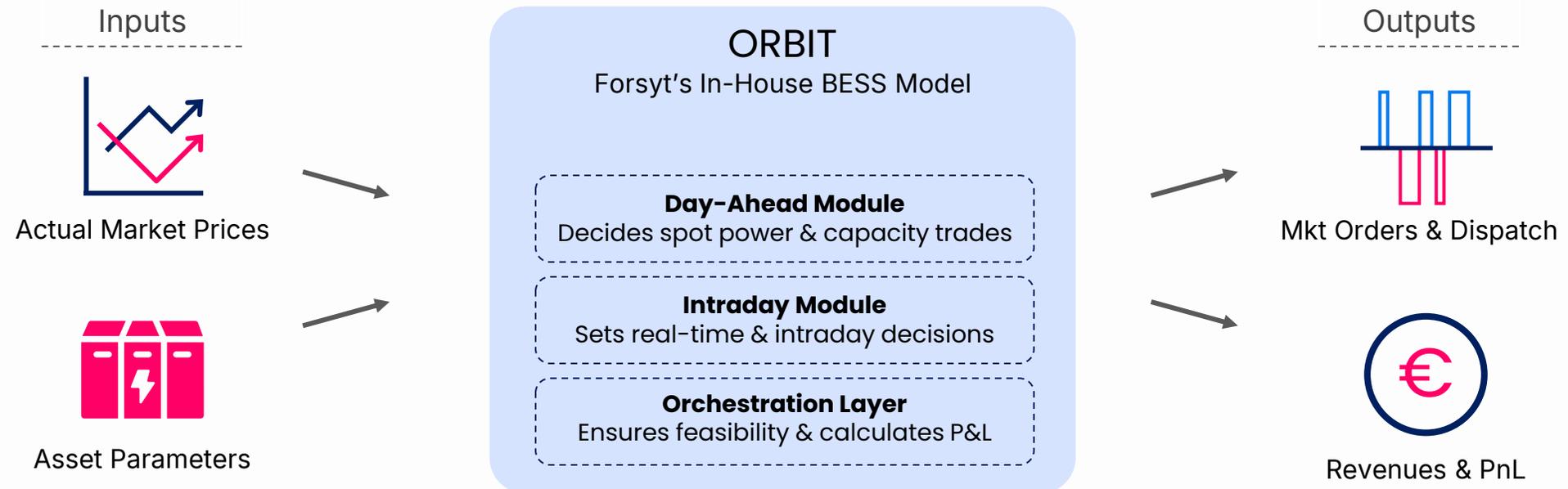
The BESS is very active in aFRR capacity, with 44% of the hours securing aFRR commitments. Throughput increases towards mid-week as aFRR energy spikes and reaches c. 70 MWh (1,74 efc) on 24/01. Total throughput for the week is 6,35 EFCs.

Model description

Our proprietary BESS digital twin delivers exceptional market accuracy and configurability.

Forsyt's proprietary ORBIT software is a **high-fidelity modeling engine for BESS market trading behaviour**. It uses advanced data science to run a multi-product, multi-step optimization that delivers outputs consistent with both physics and market economics by construction.

Developed entirely in-house using Python, **ORBIT offers exceptional configurability**. Several technical and market parameters can be finely tuned so the model behaves as a true digital twin of your specific BESS asset.





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