

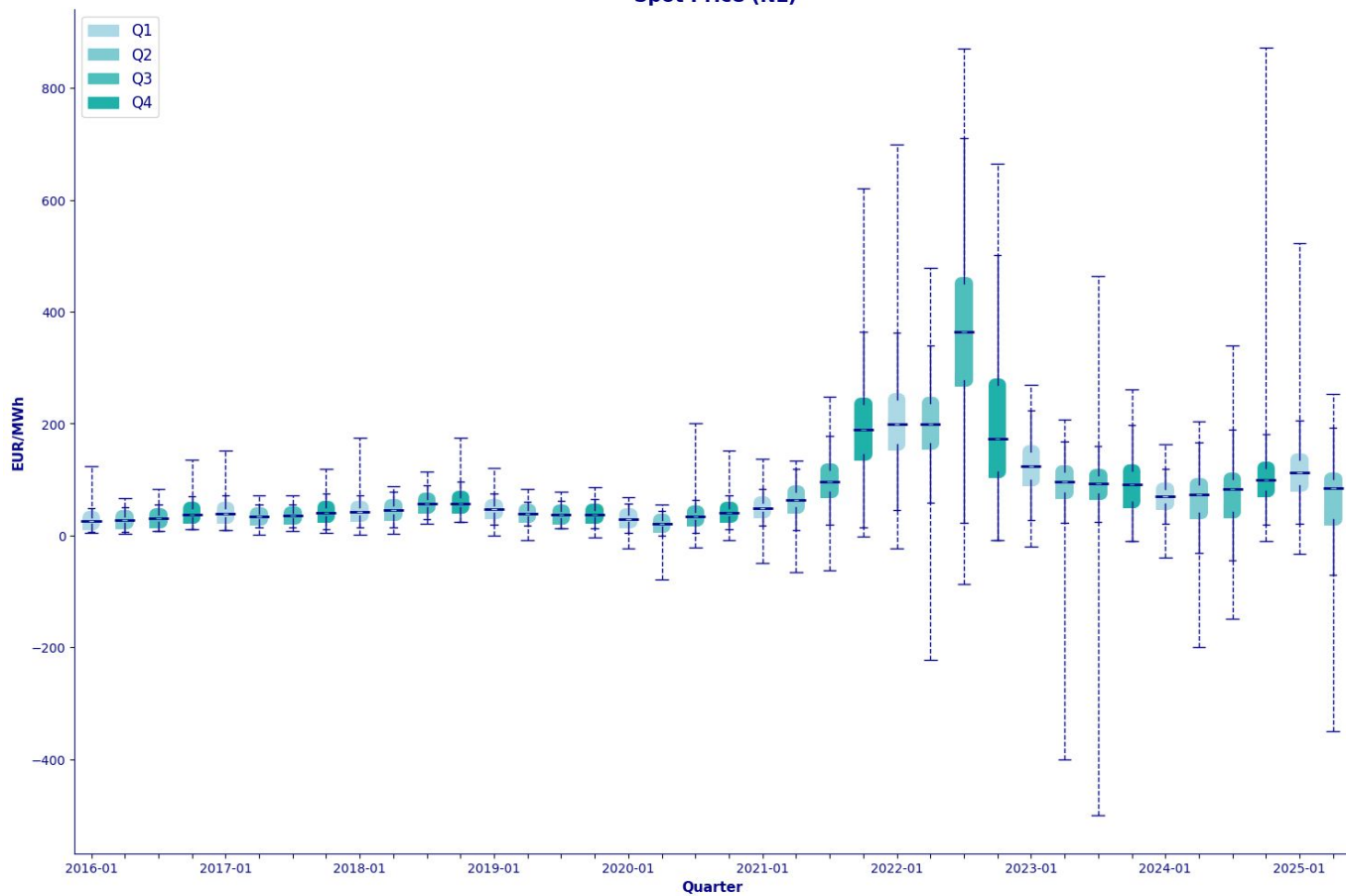
DEXTER

Reliable power forecasting Beyond the AI hype

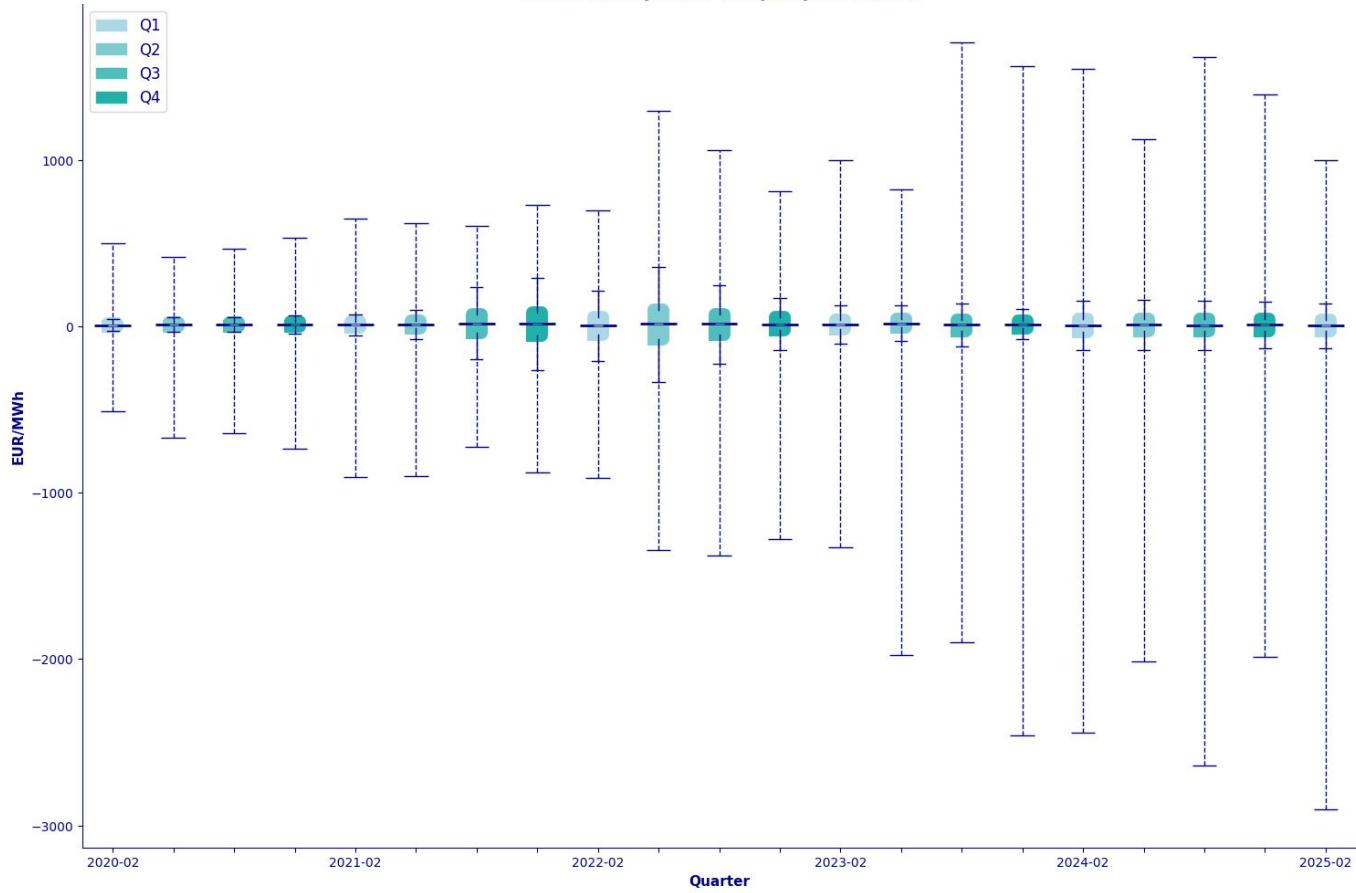
June 2025



Spot Price (NL)



Imbalance prices vs Spot prices (NL)



DEXTER

Meet me at **ETCSEE 2025**

Hofburg Vienna, Austria



Hubert Penn

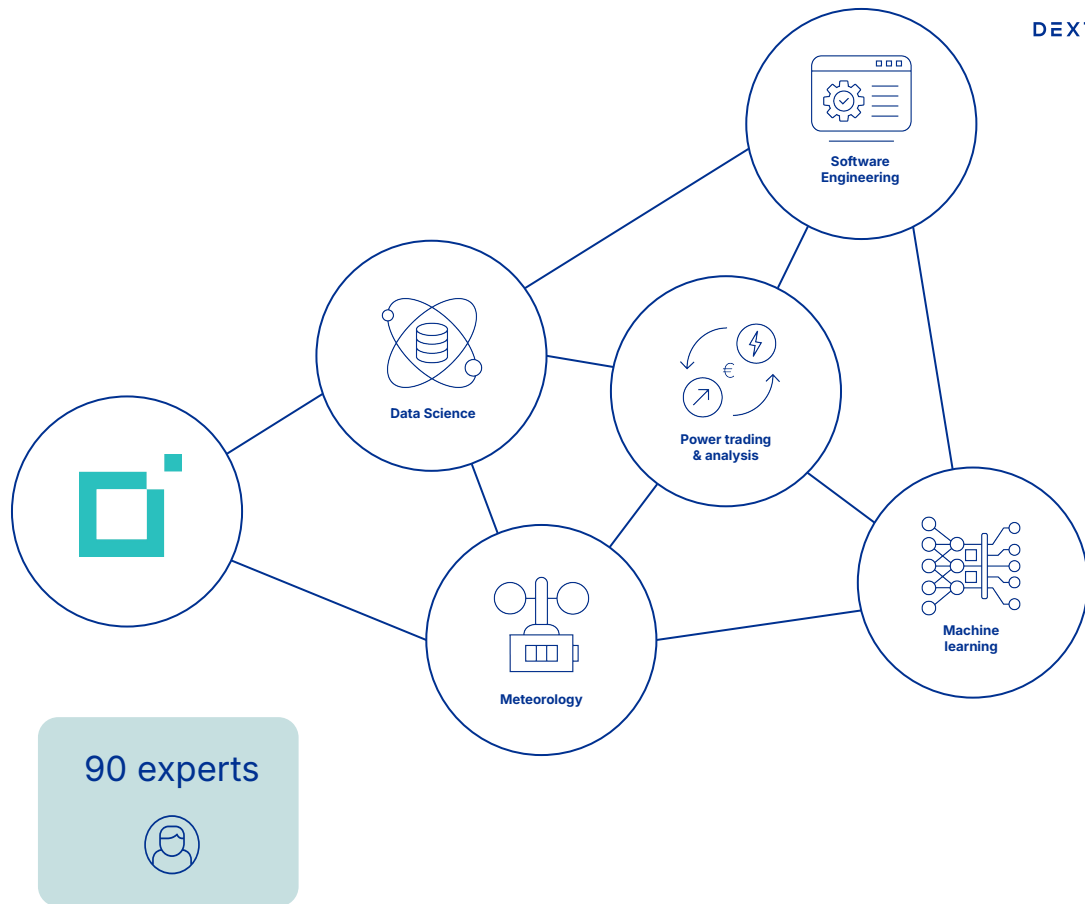
Co-founder & CCO



dexterenergy.ai

Dexter Energy

Empowering
Energy Companies
to Maximize
Short-Term trading
through
AI-based Data Intelligence



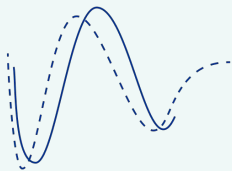
Dexter Energy

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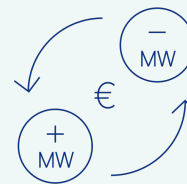


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Power
Forecasting



Trade-Signals-
as-a-Service



90 experts



> 20 GW



Dexter Energy

Empowering
Energy Companies
to Maximize
Short-Term trading
through
AI-based Data Intelligence



DEXTER



90 experts



> 20 GW



80 clients



A wind turbine is visible in the upper left quadrant of the frame, its blades extending towards the top and left. The background is a soft, hazy sky with a warm, orange-brown color palette, suggesting a sunrise or sunset. The overall mood is serene and atmospheric.

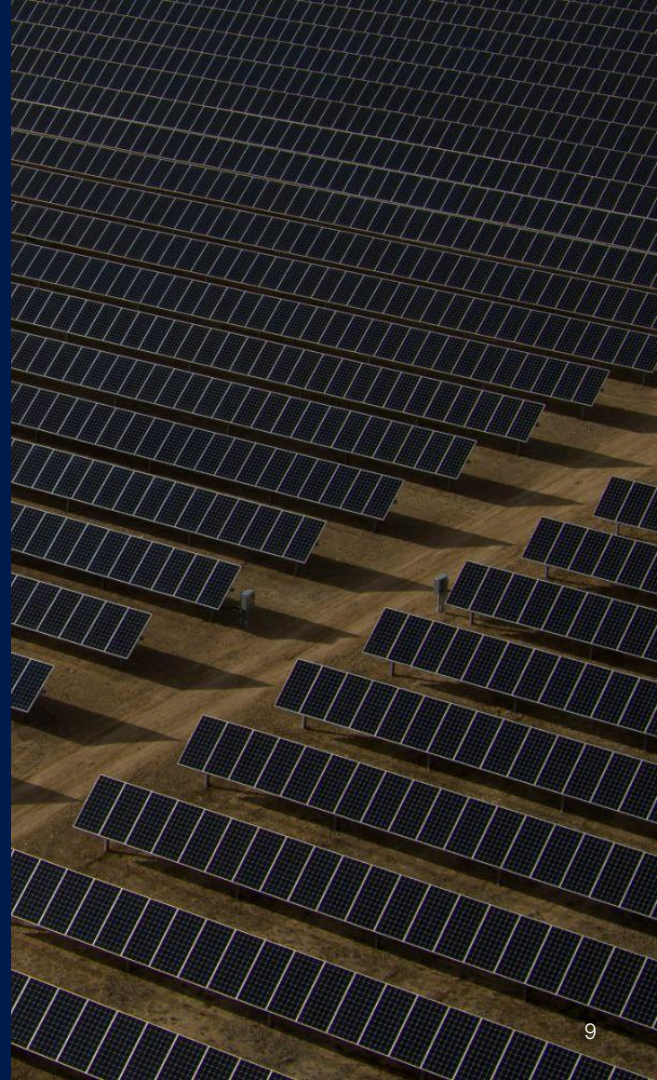
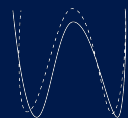
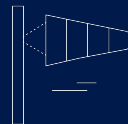
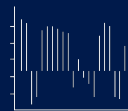
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Three trends

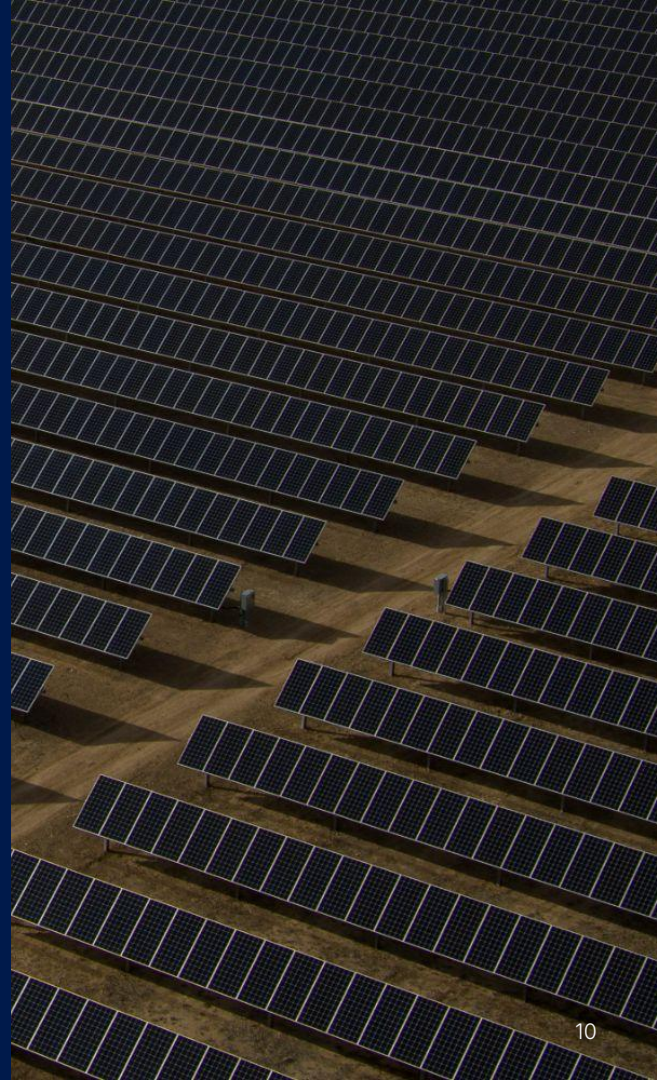
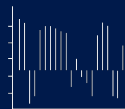


Trends in Power Forecasting

- 1 Traded volumes shifting into INTRADAY
- 2 Rare weather events create a large TAIL RISK
- 3 Power losses leads to FORECAST BIASES

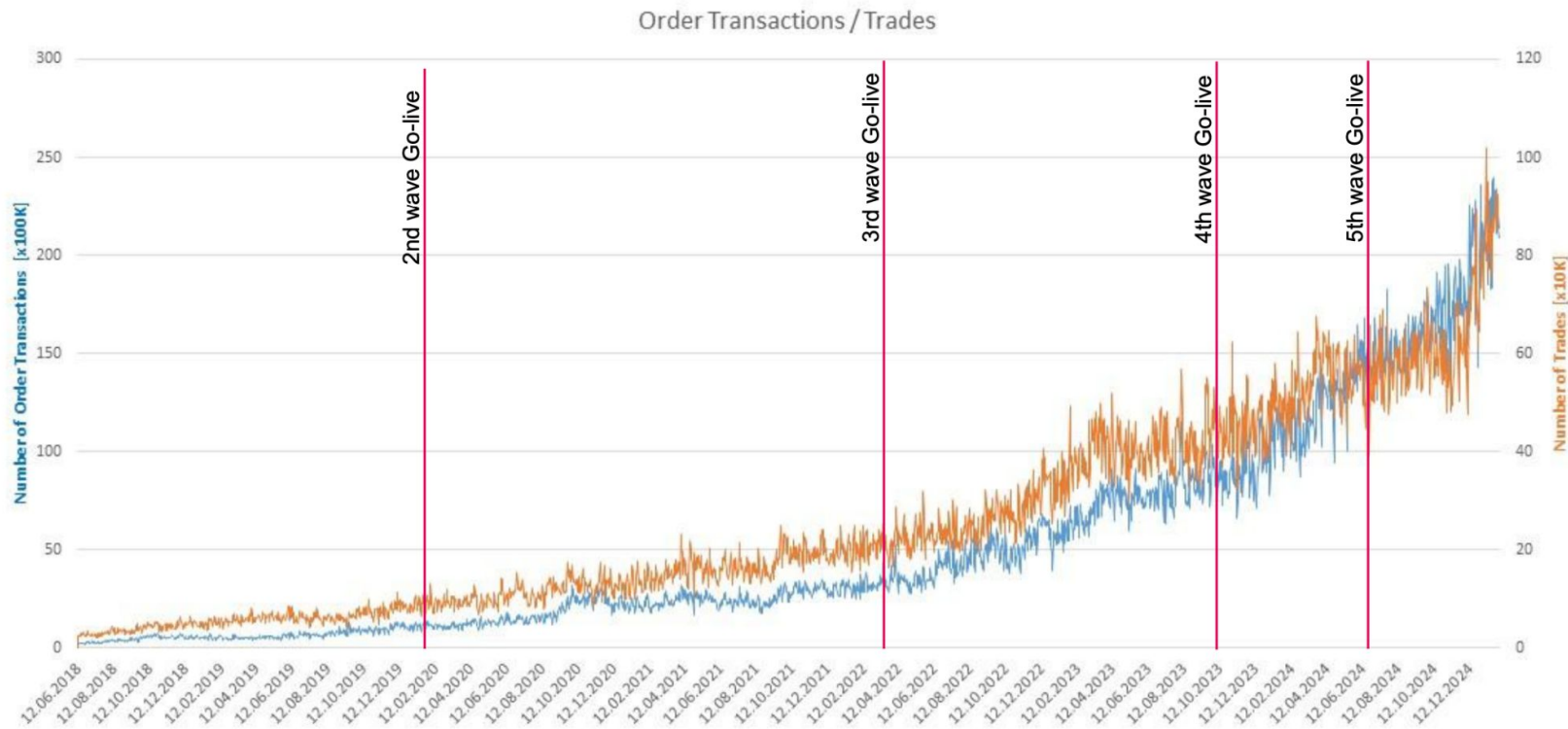


1 Traded volumes shifting into INTRADAY



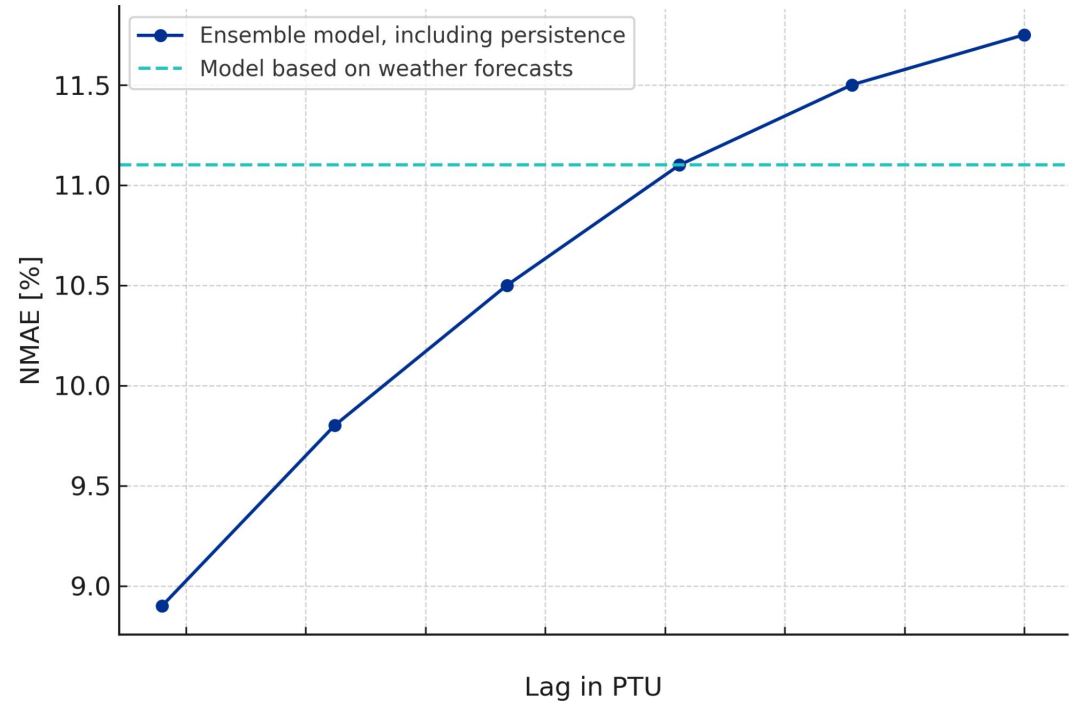
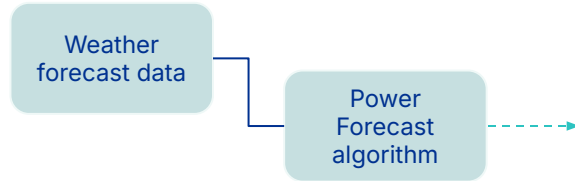
1 Traded volumes shifting into INTRADAY

Intraday trades have doubled again last year



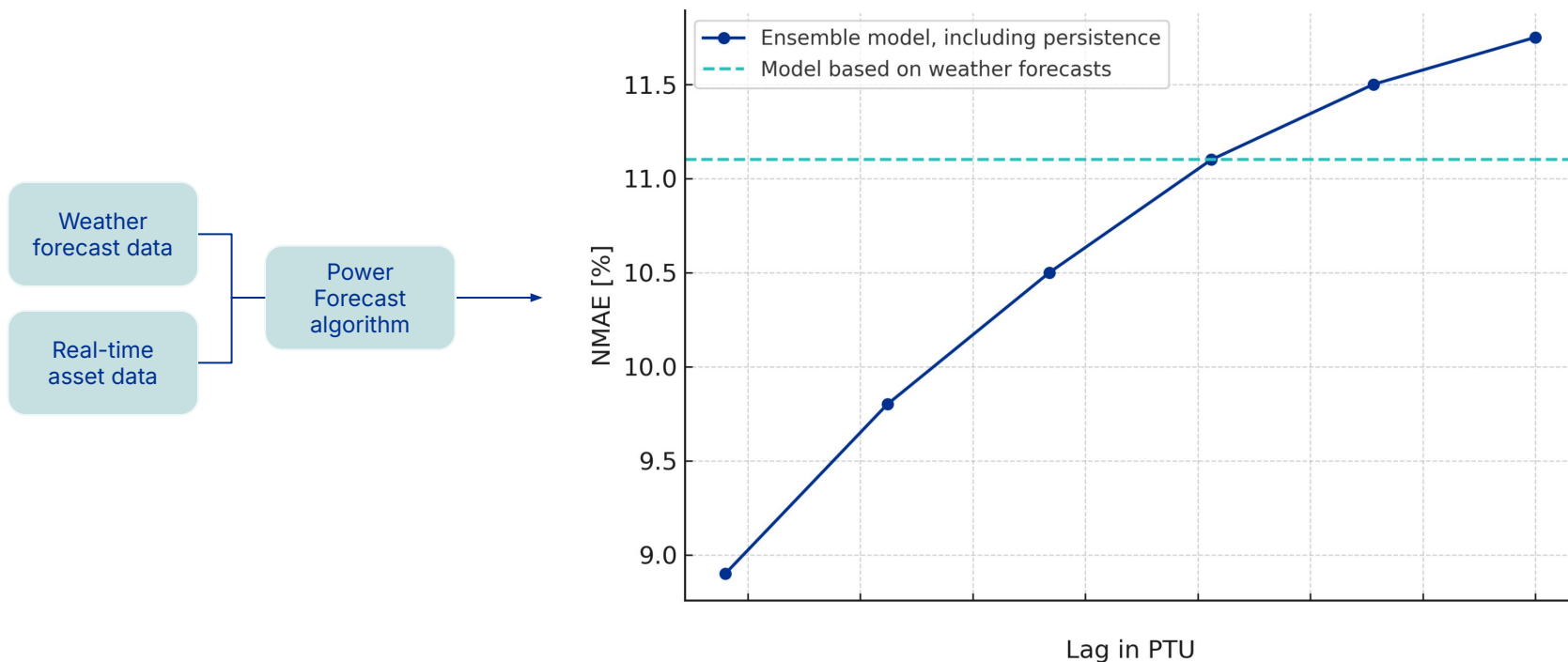
1 Traded volumes shifting into INTRADAY

Fusing ONLINE asset data into an ensemble model significantly improves forecast performance in the last hours before delivery



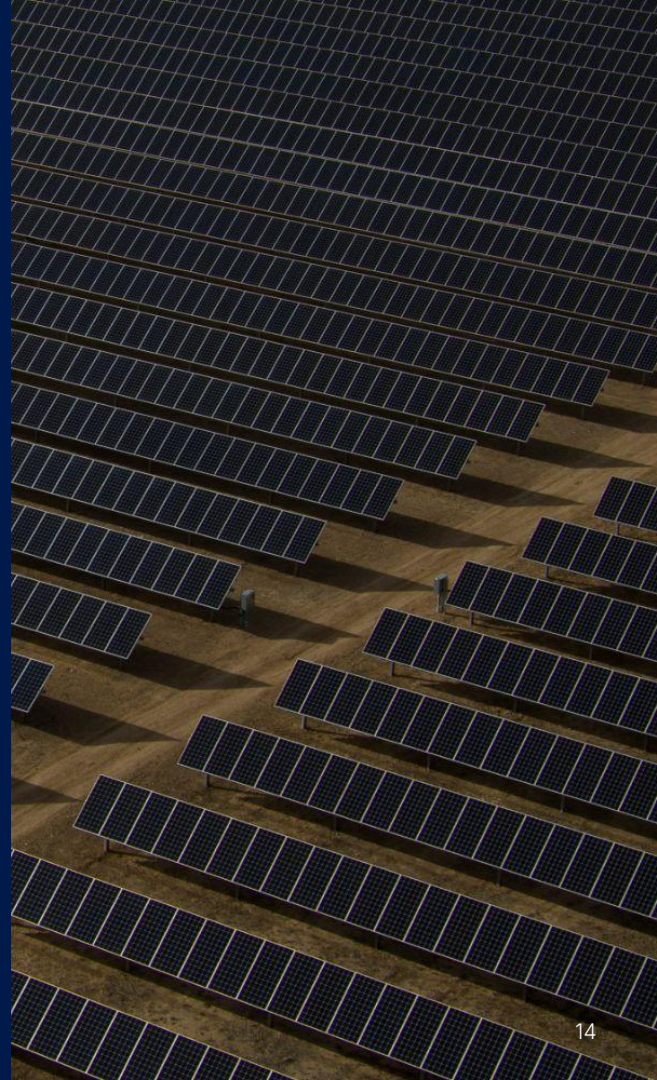
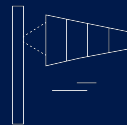
1 Traded volumes shifting into INTRADAY

Fusing ONLINE asset data into an ensemble model significantly improves forecast performance in the last hours before delivery



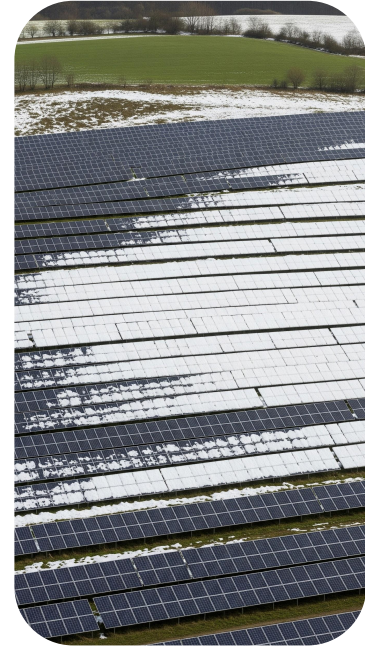
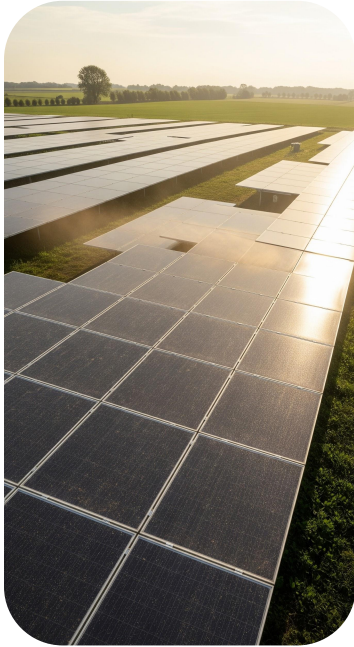
2

Rare weather events create a large TAIL RISK

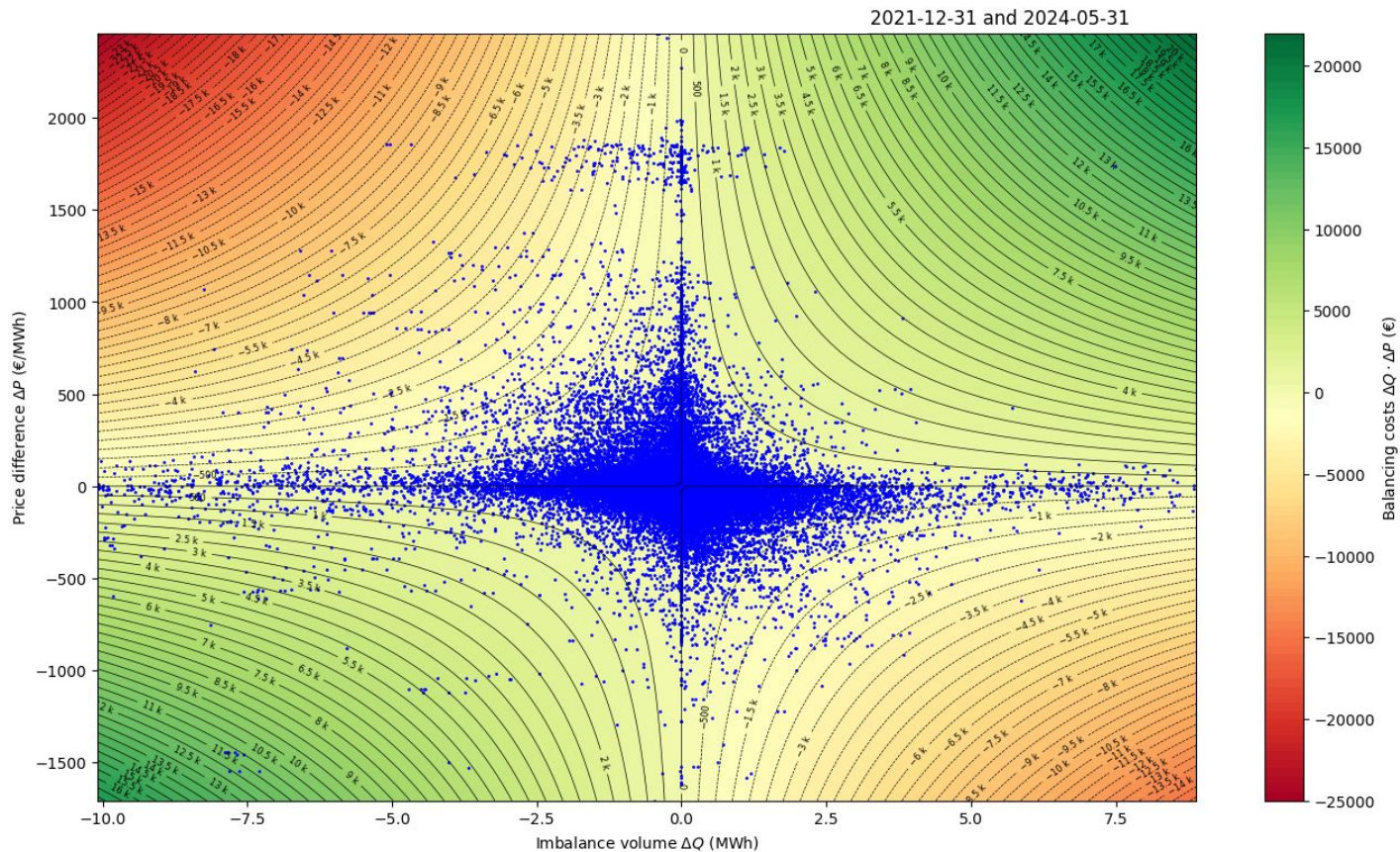


2 Rare weather events create a LARGE TAIL RISK

Unexpected and rare weather events become an increasingly large part of imbalance risk



The cost of inaccurate forecasting: $dp \cdot dv$

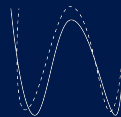


Three Dexter features to address tail risk



3

Power losses leads to FORECAST BIASES

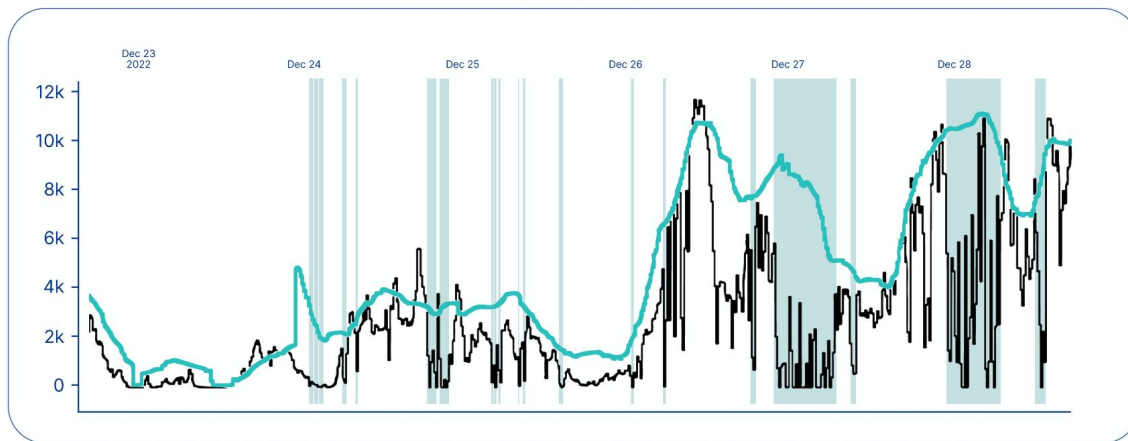


3 Power losses leads to FORECAST BIASES

Power losses pollute historic datasets and lead to forecast biases

Financial & Operational power losses

- Grid curtailments & restrictions (redispatch)
- Maintenance
- Commercial curtailments



3 Power losses leads to FORECAST BIASES

Power losses pollute historic datasets and lead to forecast biases

Automatic and manual proprietary tools



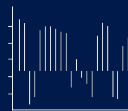
Monitor



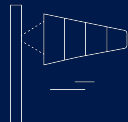
Clean

KEY TAKEAWAYS

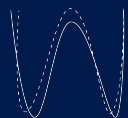
① Use ONLINE Asset Data
to accurately trade INTRADAY



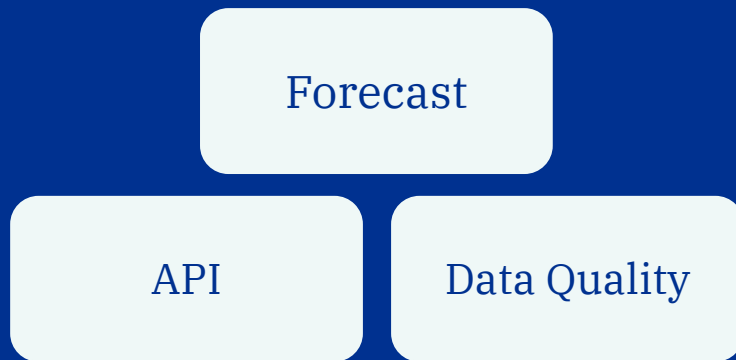
② Manage TAIL RISK
during rare weather events



③ Bad HISTORICAL DATA
leads to biases



The building blocks of a high-quality power generation forecast



We double our forecasted capacity every year

Total wind and solar forecasted



How to get in touch with us?



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DEXTER

Thank you!



END

