

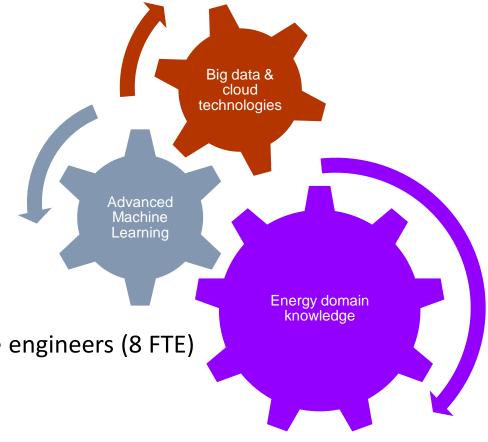
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- Energy forecasting & data services
- Founded in 2017
- Amsterdam-based
- Independent player

Energy specialists & data scientists & software engineers (8 FTE)

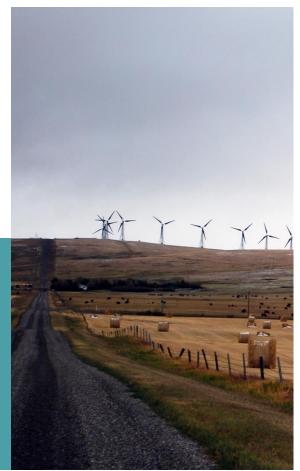


technology Slide 2



Lead the way towards a cleaner & more affordable energy future...

... by helping energy utilities manage imbalance through Al forecasting technology



Energy utilities forecast electricity to minimize imbalance and optimize imbalance costs



What is the context?



In electricity systems, supply & demand must be in balance to prevent blackouts



No large-scale storage (yet)



Why imbalance management?



Imbalance is managed (& minimized) through accurate forecasting



Imbalance costs is the result of penalties due to causing imbalance



Whose problem is it?



Imbalance is responsibility of energy utilities



Causing or solving imbalance is penalized or incentivized



What to forecast?



Market players forecast electricity flows (supply & demand)...



...and imbalance itself

Trends: the problem and opportunity of imbalance is expected to increase due to the energy transition



Renewables



- Large—scale wind & solar
- Unplannable
- Difficult to predict

Decentralisation



- Residential solar roofs
- Residential storage
- Small-scale wind power

New loads



- Electric vehicle charging
- Electric heat pump
- Dynamic price-dependent loads

Dexter's software uses machine-learning algorithms to forecast energy & optimally deploy flexible assets

DEXTER

Google

DeepMind

Eneco

NCON

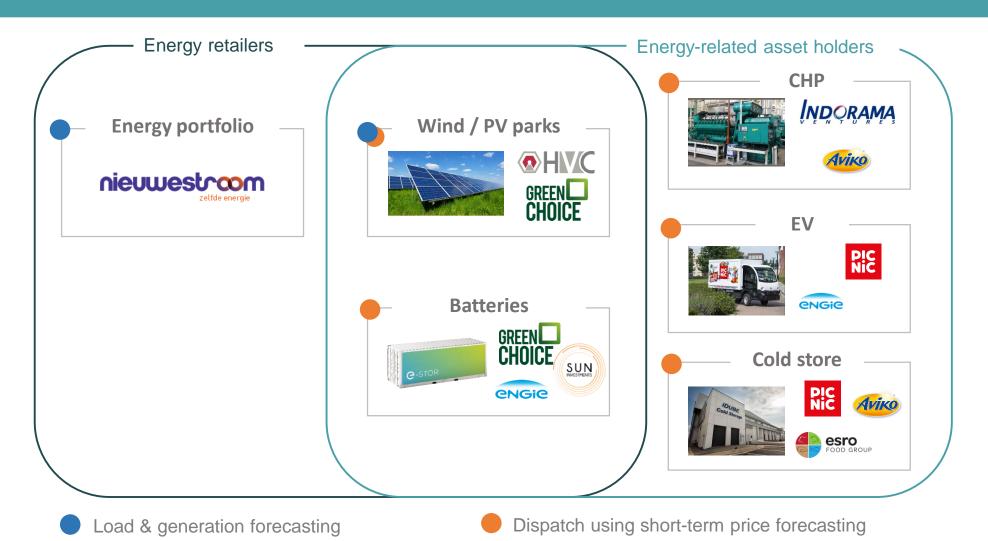




Optimal **dispatching** of flexible assets

DEXTER

Dexter forecasts loads, generation and short-term energy prices and optimizes dispatching of flexible assets

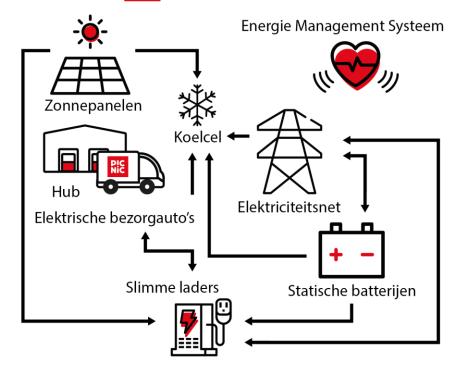


Use case: Picnic smart grid





SMART GRID









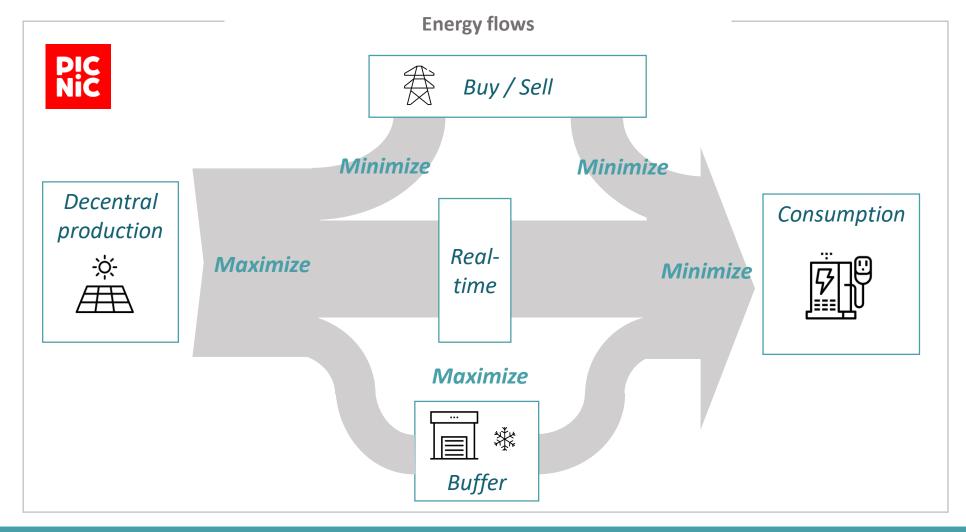












Systems





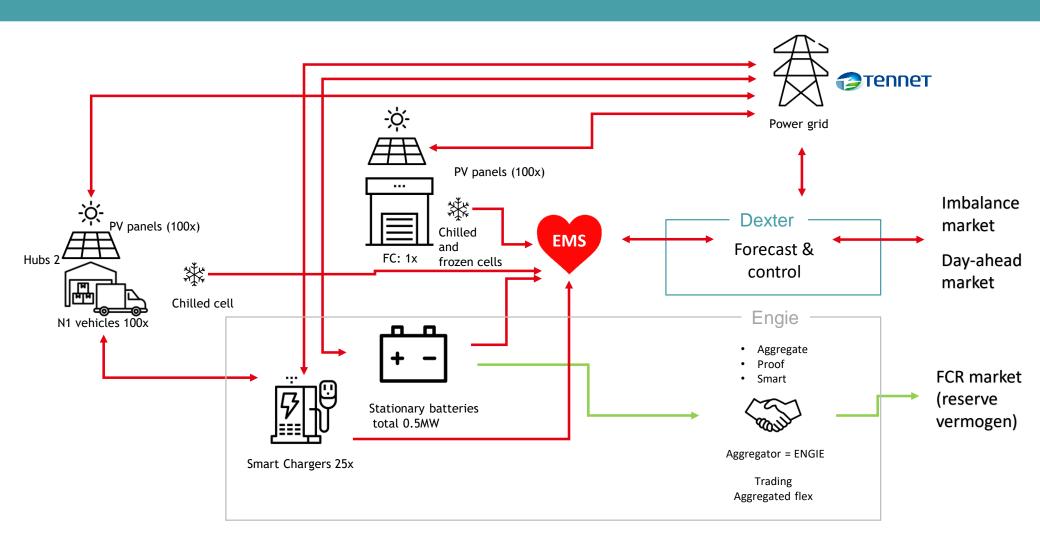






Integration





So... Why Dexter?





API interfacing

Affordable & future-proof set-up...



Cloud-based



Machine Learning & best-in-class domain knowledge on energy forecasting

... with the best performance



Data pooling & output statistics



Current results





Load forecaster

For? Energy retailers / wind & solar energy producers

Result? Accuracy forecast increased >30%

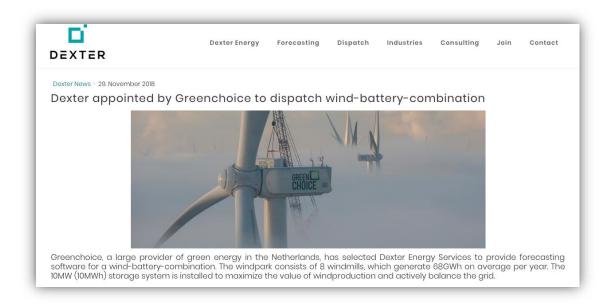
Traction 3 Dutch customers

Imbalance forecaster & dispatcher

For? Batteries & production flex

Result? Revenue increase of >50-130%*

Traction 3 Dutch customers



Thank you



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