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Managing Industrial Energy Flexibility in The Age of Renewables

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The future of energy is flexible

SUPPLY

Volume & price fluctuations

Growth in renewable energy generation, mainly driven by solar and wind

Utilities and grids nudge (large) consumers towards time- & location-specific dynamic prices

DEMAND

Electrification & steering

Electrification is a major pathway to reduce emissions, and electric demand is more steerable

Increased digitization allows to integrate granular steering signals into the operations

FLEXIBILITY

Shifting demand in time in response to supply signals

10–30%
energy cost savings

Significant
price risk reduction

5–15%
emissions reductions

COMPETITIVENESS

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Flexibility needs full energy data and integrity

disconnected

Complex Procurement

Having to balance a multitude of objectives: cost, risk, sustainability...

...while mixing different contract types: hedging, cPPA, offtake, injection...

... in a market with increasing energy price fluctuations...

... where utilities increasingly expose their customers to more price risks
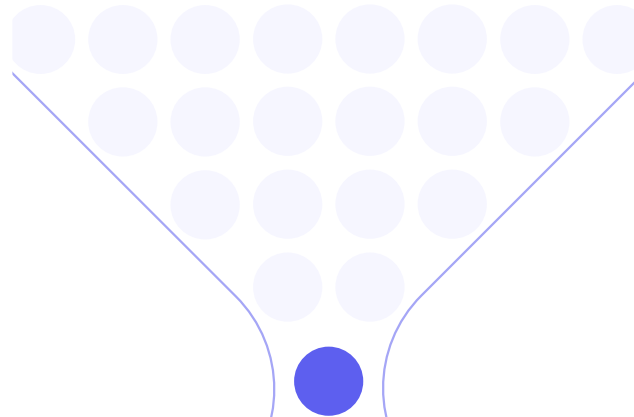
Complex Operations

Having to electrify processes and to install lots of renewable energy capacity...

...requires to execute large CAPEX programs and structurally rethink energy...

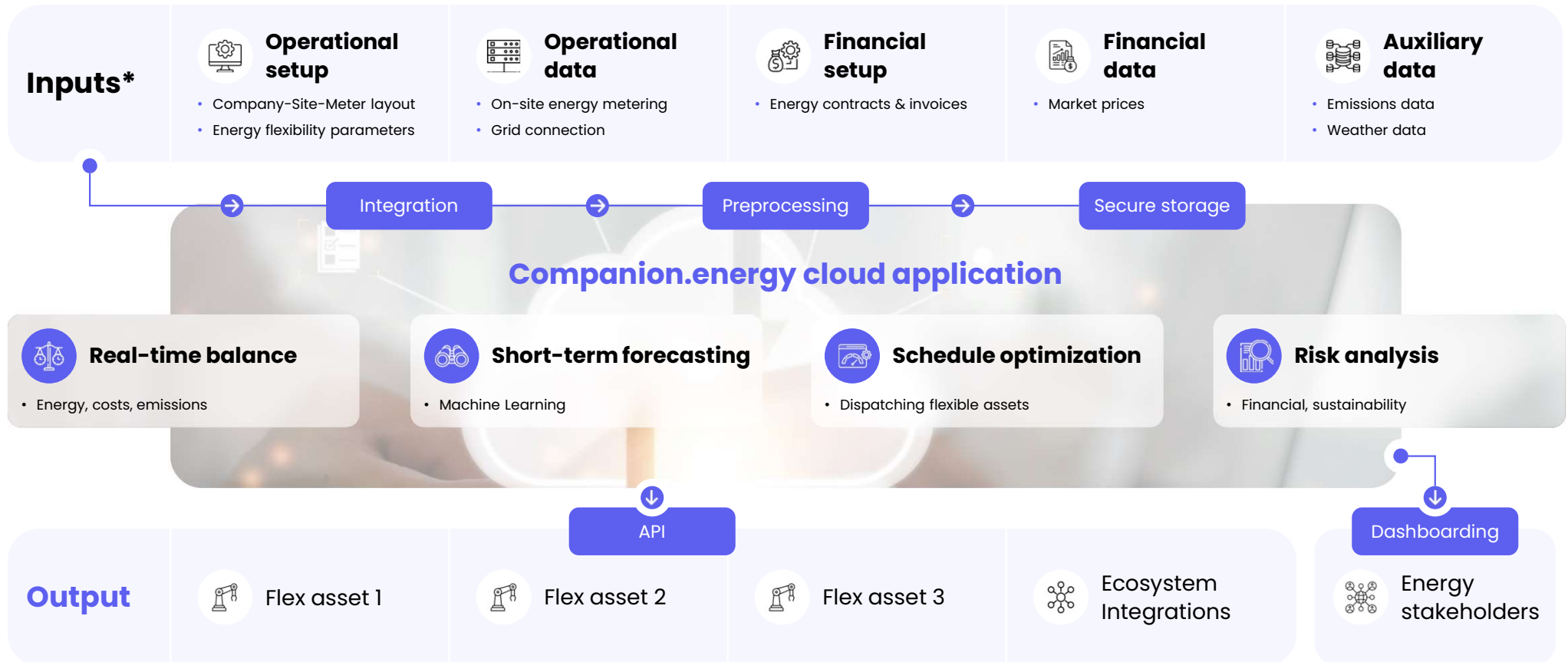...while building the capability to smartly steer processes on a minute-basis...

... to better mitigate granular price fluctuations and keep OPEX under control...
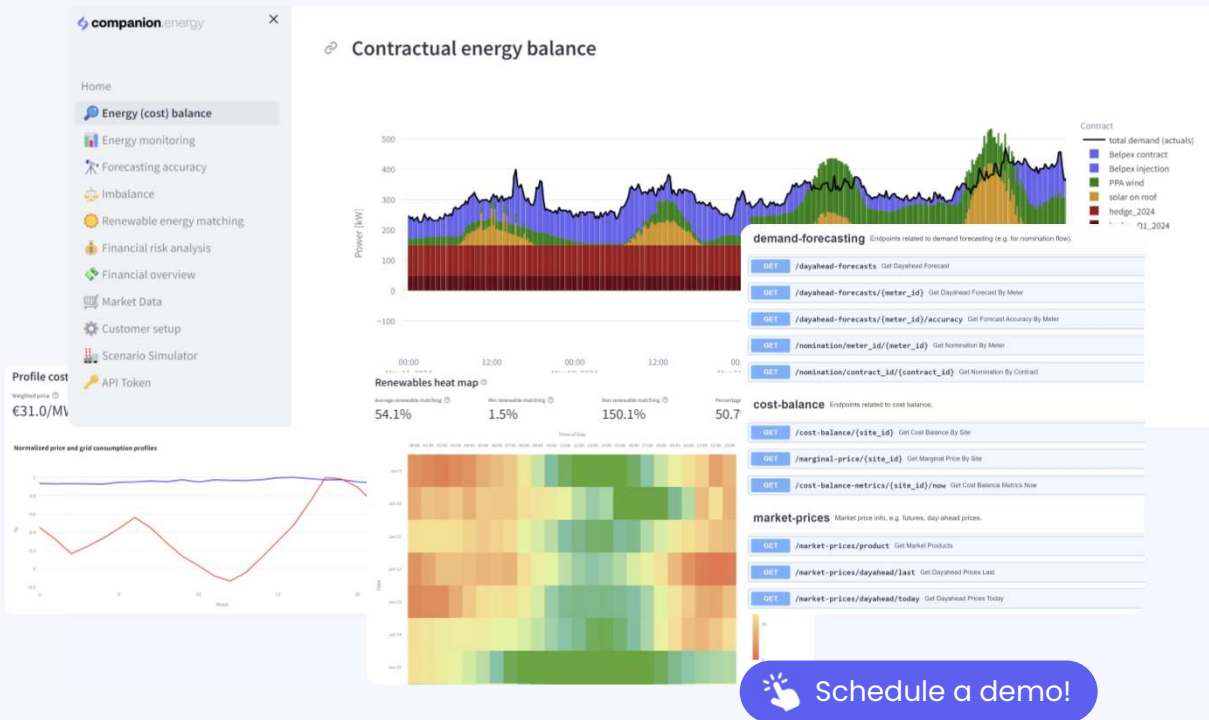
Flexibility Bottlenecked

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Companion.energy's energy backbone solves this

Inputs*

Operational setup
- Company-Site-Meter layout
- Energy flexibility parameters

Operational data
- On-site energy metering
- Grid connection

Financial setup
- Energy contracts & invoices

Financial data
- Market prices

Auxiliary data
- Emissions data
- Weather data

Integration → Preprocessing → Secure storage

Companion.energy cloud application

Real-time balance
- Energy, costs, emissions

Short-term forecasting
- Machine Learning

Schedule optimization
- Dispatching flexible assets

Risk analysis
- Financial, sustainability

API

Dashboarding

Output
- Flex asset 1
- Flex asset 2
- Flex asset 3
- Ecosystem Integrations
- Energy stakeholders

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*Some use cases don't require all input data sources at once. Let's discuss.

Our product is live with several >100GWh customers

Schedule a demo!

Some of our customers

Public EV-charging network 🇳🇱

De-risking energy market price fluctuations.

BioTech company 🇧🇪

Steering water purification & cooling, reducing costs with >15%

TelCo 🇧🇪

Targeting 50% hourly-matched renewables while saving >10%

B2B Utility 🇦🇹

Developing win-win use cases with industrial customers on flexibility

You?

What can you achieve by flexibilizing your energy demand?

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