ENERGY POOL SOFTWARE PLATFORM FOR RENEWABLE DEVELOPERS & OPERATORS

Energy Pool has developed an integrated platform that allows to manage all types of distributed energy assets.
Through our platform, monitor, predict, aggregate, optimise and control distributed energy assets, while linking them to distribution grid and markets.

EMS SOLUTION FOR RENEWABLE DEVELOPERS & OPERATORS

Monitor and control your distributed assets

- Detect abnormal behaviors: anticipate maintenance, avoid problems
- Avoid loss of revenues related to "REN premium": ability to stop renewable assets generation when market price are negative

Optimise your portfolio via forecasting, optimisers and real time control of assets

- Balance the variability of your renewable assets through the activation of flexible resources: dispatchable generation, flexible consumers, storage (batteries, heat, gas, hydrogen…)
- Reduce your imbalance costs
- Minimise loss of revenues due to lost generation
- Seize market price opportunities

Connect to your customers

- Sell the energy produced directly to individual or groups of customers (though PPA, bilateral contracts, self-consumption, peer-to-peer transactions)
- Align generation and consumption through aggregation and activation of flexibilities (on demand side, supply side or through storage)

Integrate with markets

- Monetise the flexibility of your renewable assets on dedicated reserve programs (depending on local reserve markets regulation)
- Combine renewable sources with other flexible assets (dispatchable generation, flexible consumers, storage) to maximize your revenues
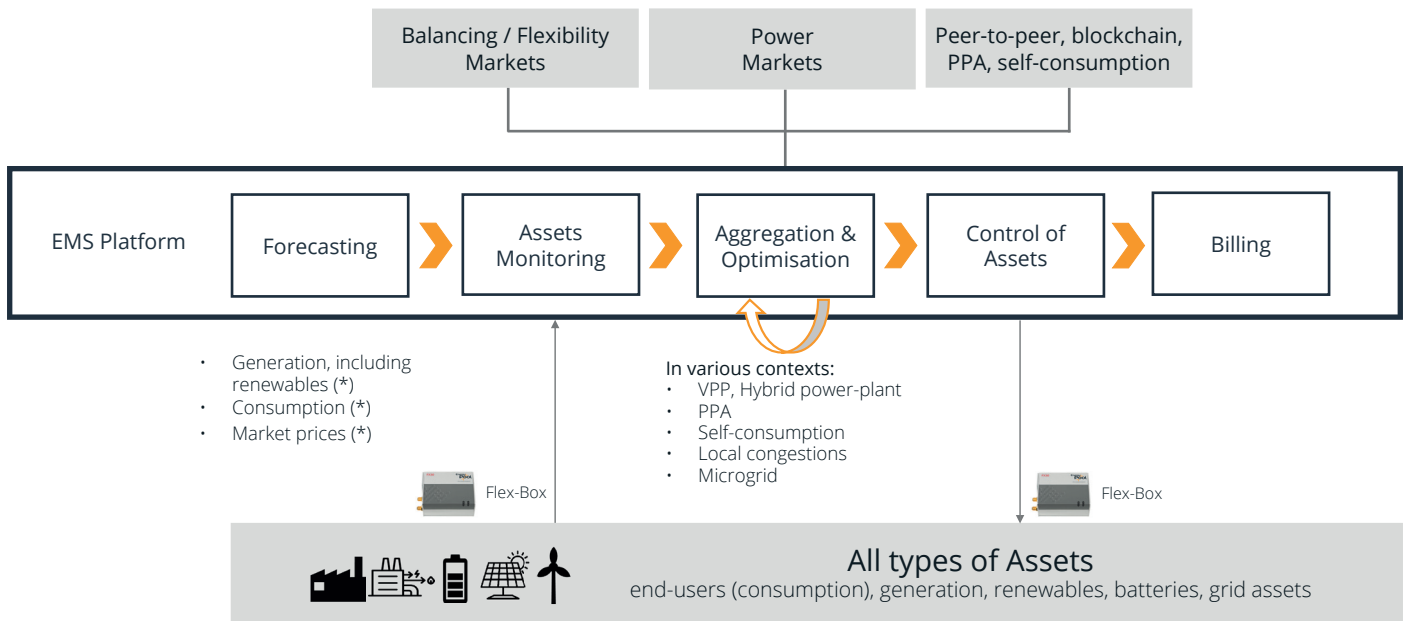
THE SOFTWARE ARCHITECTURE

Energy Pool's EMS is highly configurable, and can be deployed progressively

From basic monitoring and control...

In this configuration, the platform detects negative prices from market places, and triggers automatically the «curtailment» of the power plants to avoid producing during negative price windows.
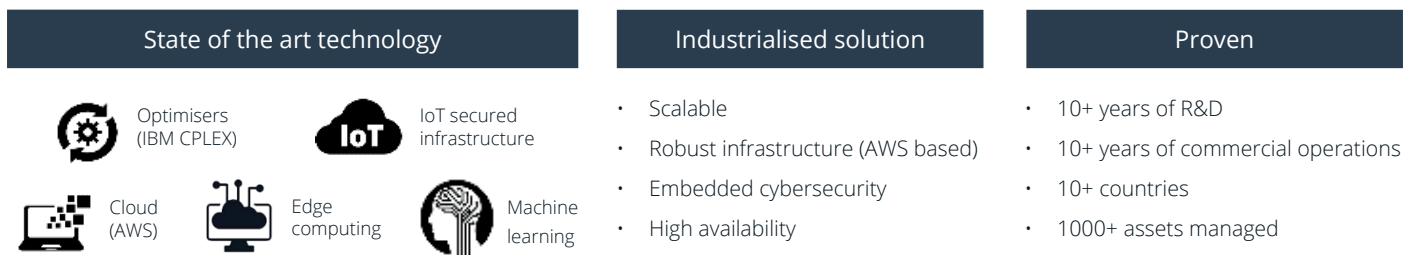
...To full portfolio optimisation

Balancing / Flexibility Markets	Power Markets	Peer-to-peer, blockchain, PPA, self-consumption

EMS Platform → Forecasting → Assets Monitoring → Aggregation & Optimisation → Control of Assets → Billing

- Generation, including renewables (*)
- Consumption (*)
- Market prices (*)

In various contexts:
- VPP, Hybrid power-plant
- PPA
- Self-consumption
- Local congestions
- Microgrid

Flex-Box

Flex-Box

All types of Assets
end-users (consumption), generation, renewables, batteries, grid assets

(*) or bring your own forecasts , our platform will integrate them

The flexibility of the EMS platform and its modular design allow a progressive deployment of the different features and modules.

WHY CHOOSE ENERGY POOL'S EMS?

State of the art technology	Industrialised solution	Proven

State of the art technology

Optimisers (IBM CPLEX)

IoT secured infrastructure

Cloud (AWS)

Edge computing

Machine learning

Industrialised solution
- Scalable
- Robust infrastructure (AWS based)
- Embedded cybersecurity
- High availability

Proven
- 10+ years of R&D
- 10+ years of commercial operations
- 10+ countries
- 1000+ assets managed

Beyond the software platform, Energy Pool can assist you through a full range of services: consulting, integration of the EMS into your IT system landscape, assets connectivity, operations...

ABOUT ENERGY POOL

At the heart of the smart grid development, Energy Pool manages and optimises complex electricity systems (distributed generation, renewables, storage assets and consumers), for a smarter and more sustainable energy management. These services facilitate the integration of renewable energies, help reduce CO_2 emissions and improve overall efficiency.

Energy Pool has been one of the pioneers in the French flexibility market since 2009. In addition, we are also present in Japan and Turkey since 2015 and in the Netherlands since 2018, and are conducting developments in around 10 countries, including Germany, Malaysia, Saudi Arabia, Thailand...

Benefit from Energy Pool mutualised operating center secured infrastructure and 24/7 team.

Tailor-made and evolutive services.

Experienced staff to assist you at each step of your project deployment and operations.