



Smart Energy Management

Energy Pool
Smart Energy Manager of Complex Systems

Enabling the energy transition

Consulting and advisory services - Software platform (EMS/DERMS)
Flexibility monetization and operations management - Decarbonization



Energy Pool at a glance

Energy Pool manages and optimizes the energy consumption of industrial sites and, more broadly, of complex systems (distributed generation, renewable energy, storage asset, etc.) for a smarter and more sustainable energy management.

Our energy flexibility monetization services enable the easy integration of renewable energies, help reduce CO₂ emissions and allow to achieve substantial savings. Energy Pool has been one of the pioneers in the French flexibility market since 2009, and now has more than 100 employees worldwide.

As a key partner of industrials, Energy Pool launched “The Active Factory” a new service offering aiming to unlock greater flexibility potential to serve decarbonization strategies.

Backed by a 10-year experience in energy flexibility operations, we also provide utilities and system operators with proven expertise and technology to implement and operate their own energy flexibility management and demand response programs.

Finally, our service offering does include a unique software platform enabling the management of all types of distributed energy assets for renewables and microgrids developers and a more efficient management of the challenges initiated by increased DER penetration on utilities distribution networks.

Energy Pool intends to play a key role with its customers and states to achieve carbon neutrality by 2050.

- > 24/7 operations
- > 3 network operation centers (France, Japan, Turkey)
- > 4.5 GW of capacity managed
- > + 1250 managed sites



Energy Pool, your end-to-end partner from consulting to operations

CONSULTING & ADVISORY SERVICES

"Unlock your flexibility potential to seize new opportunities"



Services for energy flexibility identification

Market design

Regulatory analysis

SOFTWARE PLATFORM

"Manage and maximize the value of your DERs"



EMS

DERMS*

Microgrid controller

FLEXIBILITY MONETIZATION & OPERATIONS MANAGEMENT

"Get the most value from your flexible assets"



Flexibility provider

24/7 operations management service

DECARBONIZATION

"Reduce your carbon footprint, enhance your competitiveness"



Process electrification & hybridization

End-to-end support (engineering, investment, project management)

*Distributed energy resources management system (DERMS)

Some of our references

CONSULTING



In Malaysia, Demand Response (DR) has been identified as one of the key enablers of TNB’s Grid of the Future initiative. TNB has thus decided to start research and development activities on this topic, focusing on DR benefits for its distribution network and the Grid System Operator (GSO). In this context, Energy Pool supports TNB GSO in investigating DR potential by: undertaking regulatory analysis and proposing changes to integrate Demand Response, performing an assessment of potential DR creation value and finally developing a first DR program design for TNB GSO.

SOFTWARE (DERMS)



In the Netherlands, Energy Pool provided Powerhouse (part of Innogy group) with its DERMS to deliver emergency reserve to Dutch TSO TenneT. Powerhouse used the DERMS platform to monitor, optimize and automatically dispatch its customers energy flexibility, including the powerful power and time-based optimizer (“Tetris”) to manage sites with partial and dynamic availability schedule.

OPERATIONS MANAGEMENT



In Japan, TEPCO Energy Partner and Energy Pool deployed large-scale flexibility programs (Demand Response) to ensure system reliability in case of emergency. As part of operation services, Energy Pool deployed a dedicated Network Operation center (NOC) in Tokyo equipped with Energy Pool Distributed Energy Resources Management System. Hundreds of sites are monitored in real-time from Energy Pool NOC and 24/7 dispatch services are performed. Customers of TEPCO also use Energy Pool online portal to monitor their consumption, follow their operation performance (M&V) and track savings.

DECARBONIZATION



In the Netherlands, Energy pool supports ALDEL (Aluminum producer) in the implementation of its green plan. ALDEL did set an ambitious ten-year plan to modernize its installation while reducing its carbon footprint. Our client did already participate in Demand Response (DR) mechanisms but wanted to unlock new flexibilities and increase their value. Energy Pool and ALDEL collaborate to extract new value from explicit DR mechanisms. An “enablement” plan over 3 years was set, a shared BP was built with co-investment on engineering time, hardware (automation) & outsourcing. In less than 6 months, operation were able to start on mFRRda with daily auctions with an increase of the gross income.

ANY QUESTIONS ABOUT ENERGY POOL?

CONTACT

Headquarters

20 Rue du Lac Majeur
BP 90324
73377 Le Bourget-du-Lac cedex
France

Tel. + 33 (0)4 88 13 16 60
contact@energy-pool.eu
www.energy-pool.eu

Local offices

Japan - Tokyo - contact.jp@energy-pool.jp
Turkey - Istanbul - contact.tr@energy-pool.eu

 Energy Pool
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