

## In New Caledonia, Energy Pool Wins ENERCAL Tender for the Management and Optimisation of Two Microgrids

**Energy Pool, in partnership with New Caledonian company HYSYS, has won the international tender launched by ENERCAL in June 2021 as part of New Caledonia's Energy Transition Plan (STENC), thanks to its EMS (Energy Management System). This integrated and tailor-made solution will enable the control and optimisation of the electrical systems on Maré and the Isle of Pines (New Caledonia), with the goal of achieving fully decarbonised power supply by 2025.**

### Supporting the Energy Transition Through Smart Energy Management

Maré and the Isle of Pines are home to several hotel complexes and have approximately 2,000 and 700 electricity customers respectively. Less than a decade ago, 100% of the electricity on both islands was generated from fossil fuels. Today, each island is equipped with a small solar power plant covering a portion of its annual electricity needs (7% in Maré and 5% on the Isle of Pines). ENERCAL's energy transition roadmap aims to reach 100% decarbonised electricity on both islands' electrical systems by 2025.

This transition involves installing new photovoltaic renewable energy facilities combined with stationary battery storage (microgrids), and eventually, the marginal use of biofuels as a complement.

Managing such complex systems requires maximising the use of renewable energy sources—this is where the EMS comes into play. Energy Pool's solution will optimise the use of solar plants, supported by intelligent battery management and consumption forecasting. With real-time monitoring, the key objective is to ensure a high-quality power supply (avoiding outages due to energy source issues, maintaining stable frequency and voltage, etc.), while also achieving economic efficiency and favouring low-carbon energy sources.

*"Reducing CO<sub>2</sub> emissions is now our shared top priority. This shift is marked by a strong move towards renewable energy, which, while essential, adds complexity to grid management. Performance can quickly decline if design and operations are not expertly handled,"* said Olivier BAUD, Founder and President of Energy Pool. *"This project aligns perfectly with our strategy to support all our clients in meeting the energy transition challenge. We are fully committed to delivering the level of quality and reliability ENERCAL expects from us."*

Alongside the EMS, New Caledonian company HYSYS will contribute its automation expertise to ensure the system runs smoothly—particularly relevant as they developed the control system for the existing diesel power plant.

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“This project involves commissioning two 1 MW batteries paired with 1.5 MW solar plants on each island. It forms the backbone of a transition plan that will allow both islands to be powered by largely decarbonised electricity. This will save over 3,000 litres of diesel per day on each island,” stated Jean-Gabriel FAGET, CEO of ENERCAL. “We are confident that the solution proposed by Energy Pool and HYSYS is the one that will best enable us to maximise these savings, ensure energy security, meet our ambitious timeline, and provide long-term support.”

### Energy Pool: Smart Energy Management for Complex Systems

At the forefront of the smart grid revolution, Energy Pool manages and optimises complex systems— industrial energy consumption, decentralised production, renewable energy, storage systems—for smarter, more efficient and decarbonised energy use.

A pioneer in the French electricity flexibility market since 2009, Energy Pool now has over 120 employees and manages more than 1,500 consumption, production, and storage sites worldwide. In addition to France, the company has been present in Japan and Turkey since 2015, in the Netherlands since 2019, and is expanding in several other countries (Germany, Saudi Arabia, Malaysia, Thailand, Côte d’Ivoire, among others).

The energy sector’s development has accelerated in recent years, spurred by the European Union’s ambitious CO<sub>2</sub> reduction targets, which require increased demand-side flexibility and improved energy efficiency. Emerging countries are also considering demand flexibility to avoid costly, fossil-fuel-based infrastructure investments. Additionally, emission reduction targets are driving the electrification and decarbonisation of production processes—creating significant opportunities for the decade ahead.

To meet these challenges, Energy Pool offers a comprehensive suite of services, including a constantly evolving EMS software solution that enables optimised energy network management.

 [www.energy-pool.eu](http://www.energy-pool.eu)

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