

Case study

The power of silence

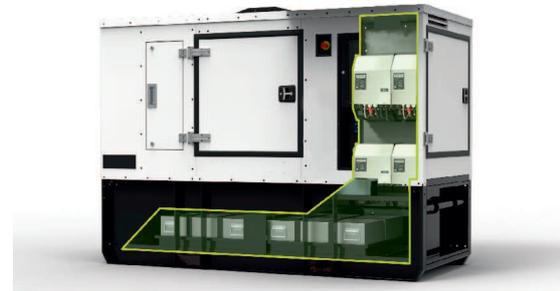
Piacenza

Italy



The challenge

Embracing the green Choice. Reduce the run time of traditional diesel generator and start benefiting from complete silent, highly efficient and emission-free power.



TecnoGen

Why STUDER

STUDER offers reliability for the customer's needs; with its flexibility, durability and 10-year warranty. The fact that it bears the "Swiss Made" label is a guarantee of top quality recognised all over the world.

System components

The system contains the following components:

- Hybrid power generator in canopy equipped with Stage V engine (or Tier IV final)
- Archimede Energia Lithium battery (PJO-400-150-TDA model)
- Studer Inverters
- Photovoltaic panels (option)

The Company

TecnoGen spa: To better meet the needs of an evolving global market, TecnoGen goes on designing new lines of products which includes compact, reliable and ultra-silent Hybrid generating sets. We have always been committed to invest in research and innovation providing its customers with a wide range of products among the most complete in the world. Over the last years we have been oriented towards increasing its production capability and the quality of its products focusing on the evolution of new technologies. All production processes are managed internally.

The Company

Archimede Energia aims to develop solutions and applications in the field of sustainable mobility, industrial applications, energy efficiency and boating.

Since 2009, research and investment have led the company to create a varied range of products, from Automotive to Storage through to the creation of products which are suitable for High-Mast Lighting or AGV (Automated Guided Vehicles) to meet customers' needs. From experience in the field, Archimede Energia has acquired electronic and electrical skills which have allowed us to industrialise the "AEnerbox" accumulators. Archimede selects only the best materials for the needs of each application and help his customers to integrate the product into their systems.

The Solution

Enercubo Series Hybrid TecnoGen power generators with lithium battery and photovoltaic panels (as option) are available in an ultra-silent Fusteq canopy (or ISO standard 20' container depending on the power). They are equipped with Tier IV F or STAGE V engines, and Archimede lithium batteries with full customization options. Enercubo are suitable to be powered by renewable energy sources. Solar chargers could be easily integrated. They are a real silent solution in battery mode. They are the perfect solution for working in places with high human density, such as construction sites in the cities. High performance is guaranteed. The high number of recharge cycles and the absence of maintenance have made this product the best solution for energy storage. Best control is ensured with Archimede BMS (Battery Management System) Hermes M3 with has been designed to let the batteries communicate with the other components (solar chargers, inverters) for key-information sharing.

Project outcome

Fuel saving / lower co2 emission / clean energy on hand for every application / less maintenance service with consequent opex (operational expense) reduction / zero noise for a truly silent solution (in battery mode) / longer engine life for less engine running hours / engine service cost reduction / low load problems solved / no interruption with peak of power management / power always available off-grid / plug&play connectivity / connection to other renewable energy source

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