



Ideas que respiran

CHALLENGE 1

Efficient generation of renewable energy

How could we maximize the efficiency and energy generation of our renewable assets to improve profitability and sustainability through new technologies?



Challenge Generation

“Why” of the Challenge

At Estabanell, we are seeking to drive the development and improvement of existing technologies in solar, wind and hydro, exploring new ways to optimize available natural resources, with a focus on solutions that integrate artificial intelligence for optimal operation and maintenance of power generation facilities.

Current Context

Estabanell, in its commitment to innovation and sustainability, recognizes the need to advance renewable energy generation. Currently, the company's status reflects significant progress in hydro and photovoltaic generation, with ongoing efforts to expand capacity and diversify the energy mix. Initiatives include the analysis of hybridization and the active search for new energy opportunities.





Challenge Generation

What We are Looking for

Renewable generation: New forms of solar, wind, hydro and other renewable energy, with a focus on efficiency and cost reduction, including any type of technology and other emerging renewable sources.

Operational Process Optimization: Solutions that use technologies (including AI) to optimize energy production, improving operational efficiency and facilitate predictive, prescriptive maintenance and operation of generation plants, including advanced sensors, real-time data analytics and early diagnostic systems to reduce downtime and maintenance costs. It could include machine learning algorithms for production prediction and plant performance simulation.

Process optimization in the search and installation of renewable energy plants: Solutions or technologies that help us to optimize the process of installation and search for more efficient spaces for the installation of renewable energy plants.

Improved storage: Energy storage systems that extend capacity and durability and reduce cost, allowing better integration of intermittent renewable sources.

Hybrid generation: Solutions that combine multiple renewable energy sources to produce hybrid generation systems that optimize energy production and supply and improve portfolio profitability.



IF YOU BELIEVE THAT
YOUR SOLUTION
SOLVES THE CHALLENGE,
DON'T WAIT AND APPLY!

