



# Costa rica residential energy storage

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News Costa Rica Confirms Energy Storage Project by Proquinal

The companies Proquinal - a member of the Spradling Group - and Swissol, accompanied by government authorities, inaugurated the largest and most innovative project for the storage of alternative energy in Costa Rica, which will help reduce the pressure on public electricity generation while also contributing to the country's carbon neutrality strategy.

To capture solar energy, the Proquinal Costa Rica headquarters in Coyol de Alajuela, installed a covered parking lot with 690 solar panels - an efficient use of space. The captured energy is subsequently stored in an innovative battery system, the only of its kind in Costa Rica. The project exceeds \$2M in investment.

This system allows for the implementation of 4.3 MWh (1.5 MW Peak) in storage capacity, through lithium batteries that are charged mainly during the night rate, which has a lower cost, and with the intermediate rate known as "the valley." The solar panels allow for generation of 255 KW.

This stored energy is delivered to the production process at the Proquinal Costa Rica plant, during the two peak periods or the period of the highest demand, which range from 10 a.m. to 12:30 p.m. and again from 5:30 p.m. to 8:00 p.m.; these periods represent the times when the cost of energy is highest. Notably, electricity purchased from public sources during peak periods is 4.5 times more expensive than the night rate. This system will aid the company in saving approximately US\$41,000 per month, which allows for return on investment over a period of 4.3 years.

Moisés Hernández, General Manager of Proquinal in Costa Rica, commented that the project's inauguration represents a solid lesson in the intelligent use of energy, as well as an advance in and contribution to the country's goals in renewable energies. Additionally, he stressed that these types of project are possible, thanks



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to the legal security that Costa Rica provides to Free Trade Zones.

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