

## SolarTech Power Solutions

# Costa Rica Energy Storage Solution



## Overview

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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. Are solar panels a good investment in Costa Rica?

Solar energy has recently gained traction in Costa Rica, especially for residential and small business use. The abundant sunshine, particularly in dry regions like Guanacaste, makes solar panels an effective solution for individual homes and community projects.

How do hydroelectric plants work in Costa Rica?

Dams and hydroelectric plants capture the energy from rivers, converting it into electricity. Large-scale projects like the Reventazón Hydroelectric Plant, which began operating in 2016, significantly increased energy production. These plants provide a steady and reliable energy supply, especially during Costa Rica's rainy season.

What is the main energy source in Costa Rica?

Hydropower is the main energy source in Costa Rica, generating over 70% of the country's electricity. Dams and hydroelectric plants capture the energy from rivers, converting it into electricity. Large-scale projects like the Reventazón Hydroelectric Plant, which began operating in 2016, significantly increased energy production.

Why is geothermal energy a natural choice in Costa Rica?

Costa Rica sits on volcanic land, making geothermal energy a natural choice. Geothermal plants, located primarily around volcanic areas like the Miravalles and Rincón de la Vieja volcanoes, produce consistent electricity from the Earth's heat. Geothermal is highly reliable, providing power day and night, independent of weather conditions.

Why is wind energy important in Costa Rica?

Wind energy is becoming increasingly important in Costa Rica, especially in areas like Guanacaste, which experience strong winds year-round. Wind farms, such as the Lake Arenal Wind Farm, use turbines to capture wind energy, converting it into electricity.

What challenges does Costa Rica face?

Costa Rica ensures these projects align with conservation goals, minimizing harm to forests, rivers, and wildlife. Despite its success, Costa Rica faces challenges in its renewable energy journey. Hydropower relies on consistent rainfall, making the country vulnerable to droughts and climate changes.

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