



Costa rica solar installation

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solutions - Costa Rica Solar Solutions - Solar Specialist CR

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Grid-Tied Solar System with Energy Storage

Electric Vehicle Charger

A Grid Tied Solar System allows our customers to benefit from the energy of the Sun, while keeping their connection and use of the traditional electric grid. This allows them to use solar energy when available, thus saving money on their electrical bill.

Solar radiation from the Sun is captured by solar panels, which produce PV electricity and send it to the inverter. The inverter converts the PV electricity (DC, or direct current) to AC (alternating current) electricity. AC electricity is passed to the home's breaker box and then to household outlets and appliances. When the solar system produces more than 100% of the energy needs, it will send electricity back into the grid, and the electricity provider will bank that energy for future use, this is known as net metering.

In Costa Rica, the policies are changing from a Distributed Generator Presidential decree to a national Distributed Generator Law which was signed and published as of January 2022. Please follow us to keep updated on the progress of regulations for the law.

Two options to consider is injecting energy into the grid and using the permitting process and policy or not ejecting into the grid (running parallel) and using energy storage for the night time consumption.

We also offer the option of adding battery storage, to further decrease the cost of the electrical bill and energy security.

Products Used: Option 1 SolarEdge system SolarEdge Inverters & Power Optimizers, Canadian Solar, JA, Trina and many other Tier 1 panels & LG Energy 10kw and 16kw Prime Lithium Ion Batteries Option 2 Sol Ark System Sol Ark, Canadian Solar, JA, Trina and many other Tier 1 panels, Fortress Lithium Ion Batteries Option 3 Generac Power Cell Solar System Generac PWR Cell system, Canadian Solar, JA, Trina and many other Tier 1 panels, Generac Power Systems – Clean Energy.

An Off-Grid Solar System suits our customers in remote locations, too far away or too embedded in nature to



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have access to the electrical grid. This system consists of both a photo-voltaic system and a battery storage bank (several batteries in series).

Contact us for free full report

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