# Pv systems types Guatemala

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In this context, we present a novel solar PV-geothermal led energy system analysis for the case of Guatemala, Honduras, and Costa Rica, using the LUT Energy System Transition Model for detailed pathway analyses linked to state-of-the-art resource data.

Moreover, Guatemala plans to reach 80% renewable energy utilization by 2030. Our authorized distributor, ECOLOGICO SOLAR, finished an on-grid system of 12.6 kW for residential installation in Zone 15, in Guatemala City. This system consists of 28 panels EGE Helios plus 450w mono 9BB, that possible to provide the highest efficiency of 20.81%.

Guatemala ranks 87th in the world for cumulative solar PV capacity, with 101 total MW"s of solar PV installed. Each year Guatemala is generating 6 Watts from solar PV per capita (Guatemala ranks 77th in the world for solar PV Watts generated per capita).

The proposed HRES comprises a hybrid photovoltaic-wind turbine-bio generator coupled to battery storage, which caters to the energy needs of a typical household in Alta Verapaz, a rural area in Guatemala with limited electricity access (64.61%).

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Based on Scenario I, the cost-effective solution is a PV system with a capacity of 5.39 kW and 29 kWh battery capacity, with a cost of energy (COE) of 0.893 $/kWh. In Scenario II, a hybrid solution consisting of a 2.46 kW PV system, a 2.20 kW bio-generator, and 16 kWh battery capacity o, results in a COE of 0.605 $/kWh.

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Semantic Scholar extracted view of "A novel geothermal-PV led energy system analysis on the case of the central American countries Guatemala, Honduras, and Costa Rica" ...

Semantic Scholar extracted view of "A novel geothermal-PV led energy system analysis on the case of the central American countries Guatemala, Honduras, and Costa Rica" by A. S. Oyewo et al.

A mix of renewables, led by PV-geothermal hybrid generation, could drive a highly sector-coupled multi-generation system in Guatemala, Honduras, and Costa Rica, which is an essential finding for countries with similar climatic and resource conditions.

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