



Sri Lanka's Customized Home Photovoltaic Power Generation and Energy Storage Solutions

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Discover how customized solar energy systems paired with smart storage are transforming Sri Lankan households. This guide explores practical insights, real-world applications, and emerging opportunities in residential renewable energy solutions.

With *2,200+ annual sunshine hours*, Sri Lanka's tropical climate makes it ideal for photovoltaic systems. Recent data shows:

45% increase in residential solar installations since 2020

Average 4-6 year ROI for hybrid systems

30% reduction in electricity bills for typical 4-member households

"Our 5kW system eliminated power cuts and cut our CEB bill by 75%," says Nimal Perera from Colombo.

Key Components of Customized Systems

Monocrystalline PV panels (325-400W)

Lithium-ion battery banks (5-15kWh)

Smart energy management systems

Energy consumption analysis

Roof suitability assessment

System design customization

Government approval assistance

Installation & maintenance



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System Size Initial Cost (LKR) Annual Savings 3kW Basic 650,000 92,000 5kW Hybrid 1.2M 185,000

The market is shifting toward:

AI-powered energy optimization

Modular expandable systems

Integrated EV charging solutions

Pro Tip:

Look for *net metering-compatible* systems to sell excess power back to the grid!

Customized photovoltaic systems with energy storage offer Sri Lankan homeowners energy independence, cost savings, and environmental benefits. With improving technology and favorable policies, now is the ideal time to transition to solar.

How long do solar batteries last?

Quality lithium batteries typically last 8-12 years with proper maintenance.

What maintenance is required?

Basic panel cleaning every 3 months and annual professional inspection.

About Our Solutions

Specializing in customized solar-storage systems for tropical climates, we provide end-to-end solutions from design to maintenance. Contact our energy experts:



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