

# **Cost of a 500kWh Containerized Photovoltaic System in Papua New Guinea**





## Overview

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Will solar power be the next stage in PNG?

Electricity in PNG is still very expensive and the cost of solar power continues to fall each year. Now we're seeing similar price drops for batteries, and I think that will be the next stage for solar projects, as many of them will begin to include energy storage.

Are Papua New Guinea's first electric vehicles coming to Port Moresby?

Papua New Guinea's first plug-in electric vehicles (EVs) – two cargo vans and a passenger bus – have appeared on the streets of Port Moresby. Ruby Gamoga reports. Improved access to finance could the rapid development of solar power, according to Jon Pittar, Managing Director of solar provider, Solar Solutions PNG.

Can importing solar equipment drive investment in PNG?

There is a duty-free component to importing solar equipment but no carbon price, tax credit or renewable energy target, which could drive investment. We see tariff reform for electricity prices as an important step. Variable pricing could be a major contributor to the PNG government's targets for both electrification and emissions reduction.

Will solar reshape the PNG economy?

'It's clear that solar is going to reshape the PNG economy, much like mobile phones did 15 years ago.' We have been collaborating with the Climate Change and Development Authority (CCDA), which is a part of the Environment Ministry.



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Solar container shipments in Papua New Guinea are delayed by geography, so you must have rugged builds with heavily protected battery cooling. That adds system cost by 10-15%.

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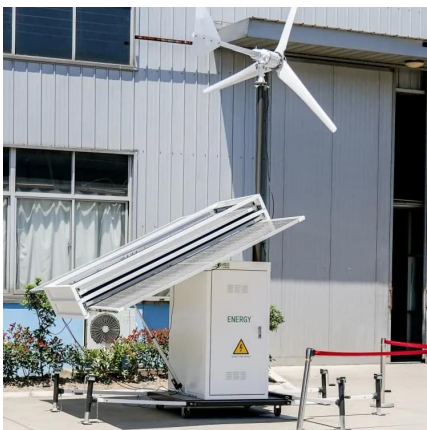
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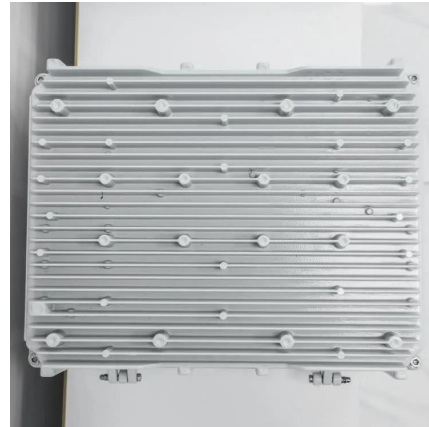




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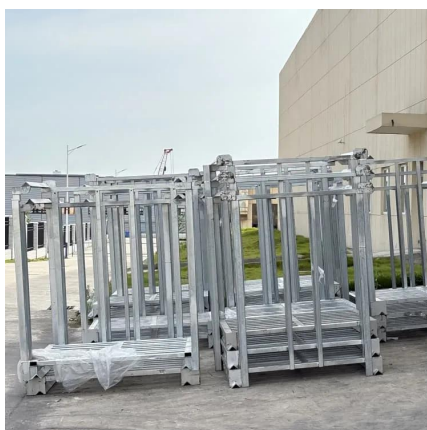
Many areas in Papua New Guinea, particularly in rural and remote regions, remain off the national electricity grid or rely heavily on diesel generators. This results in high fuel costs, carbon emissions, and limited energy ...

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"Solar PV systems have the potential to reduce the cost of power supply in Papua New Guinea and reduce carbon emissions through less reliance on diesel," Mageo said. "With Papua New ...

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