



Seychelles Solar Report

Prepared by J.v.G. Technology GmbH

J.v.G. Technology GmbH is a German engineering company specializing in turnkey solar module production lines and manufacturing consulting, with project experience ranging from 20 MW to 500 MW per production line, including multi-line and gigafactory projects exceeding this scale.

This Solar Report is part of the **PVKnowHow** Knowledge Network.
The data, analysis, and conclusions in this document are based on real research, consulting insights, and international solar market data.

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Gain comprehensive insights into the statistics and metrics surrounding the solar production industry in Seychelles

KEY POINTS

All figures have been converted into USD



Yearly sunshine (sun hours per year)

Average yearly sunshine in hours: 2500 hours

Typical range of sunshine for solar energy production: 2000 - 3000 hours



kWh per kWp installed

Typical kWh produced per kWp: 1200 kWh/kWp per year

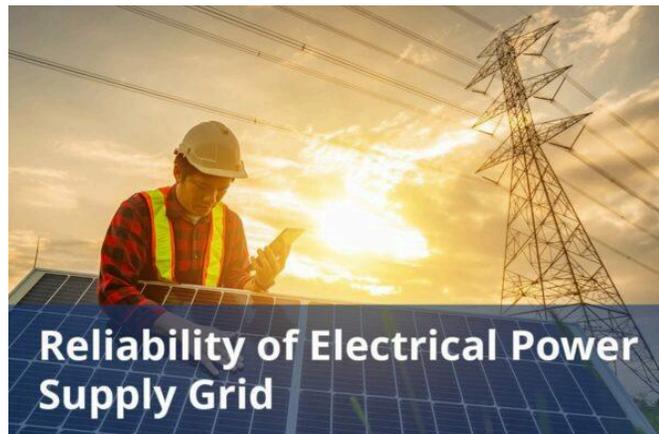
Range of kWh per kWp: 1000 - 1500 kWh/kWp per year



Average cost per kWh from utility company

Average cost of electricity for residential use: \$0.13/kWh

Cost range for residential electricity: \$0.10/kWh to \$0.30/kWh



Reliability of electrical power supply grid

Reliability of solar energy systems: High

Factors affecting reliability: Weather, shading, and equipment quality



DETAILED INFORMATION

All figures have been converted into USD

Total solar panel production capacity (installed)

Total solar panels installed in the region: 150000 panels

Increase in installations over the past year: 20000 panels

Total solar panel production capacity (projected)

Projected total solar panels in the next 5 years: 300000 panels

Estimated growth rate: 15% annually

Average costs of various electricity generation sources (coal, natural gas, solar, etc)

Average cost of solar panel installation: \$15000 per home

Cost range: \$10000 to \$25000 depending on system size

Percentages of various electricity generation sources (coal, natural gas, solar, etc)

Percentage of electricity generated from solar energy: 15%

Expected increase in solar energy contribution: 5% in the next 5 years

Average daily availability of electricity from the national grid (measured in hours)

Daily availability of solar energy production: 5 hours/day

Seasonal variations in daily availability: 3 to 8 hours depending on season

Number of residential solar panel installations

Number of residential solar panels: 70000 panels

Estimated average number of panels per house: 5 panels

Total number of solar farms (installed and projected)

Number of solar farms in the region: 30 farms

Total capacity of solar farms: 100 MW

Off-grid market demand for solar panels (current and projected)

Current Demand:

- Context:

Seychelles, with its 115 islands and high solar radiation levels, has significant potential for off-grid solar solutions. The current focus is on installing solar panels for residential, commercial, and agricultural use, particularly in areas not connected to the main electricity grid.

- Capacity & Usage:

Off-grid solar panels are used to power residential homes, resorts, commercial properties, agricultural operations, and more. Current installations include powering air conditioning, kitchen equipment, lighting, pool pumps, and agricultural systems like water pumping and irrigation.

Future Demand:

- Growth:

As Seychelles continues to focus on sustainable energy solutions and reducing dependence on fossil fuels, the demand for off-grid solar systems is expected to grow. This growth will be driven by increased

interest in ecotourism, the need for reliable off-grid power solutions, and the country's commitment to climate change targets.

- Projects:

The potential for expanding solar energy use includes residential areas, resorts, commercial buildings, and agricultural sectors. Future projects may also incorporate technologies like solar thermal hot water systems, reverse osmosis for desalination, and lithium-ion battery storage for nighttime power.

On-grid market demand for solar panels (current and projected)

Current On-Grid Demand for Solar Panels in Seychelles:

- Seychelles' on-grid solar demand is currently modest but is on a growth trajectory.
- The country relies almost entirely on imported oil for its electricity needs, which has led to a high interest in integrating solar energy into the national grid.
- Presently, the focus is primarily on urban and semi-urban areas, with ongoing initiatives to extend solar coverage to more remote locations.
- As of the latest data, Seychelles has made some progress in incorporating solar PV systems into its grid.
- The current solar capacity is relatively small but is a key component of the country's efforts to diversify its energy sources.
- Projects like the grid-connected rooftop photovoltaic systems aim to increase this capacity and reduce reliance on fossil fuels.
- The existing on-grid solar infrastructure is in the early stages of development. While there is notable progress, significant expansion and investment are required to meet future energy demands and enhance the grid's capacity.

Future On-Grid Demand for Solar Panels in Seychelles:

- The future demand for on-grid solar panels in Seychelles is expected to rise significantly. As the country continues to experience growth in energy consumption due to economic development and increasing living standards, the need for renewable energy sources will become more pressing.
- The government's goals include expanding the use of solar panels and improving grid infrastructure to support this transition.
- The development of a supportive policy framework and the introduction of technological innovations are expected to facilitate this growth.
- Challenges such as investment requirements, grid infrastructure upgrades, and energy storage solutions will need to be addressed to fully realize the potential of solar energy in Seychelles.
- Nevertheless, the country's high solar radiation levels and commitment to renewable energy offer promising opportunities for substantial growth in on-grid solar capacity.

Average monthly income of workers in solar industry (labor cost)

Average monthly income of workers in solar industry:

A Solar Photovoltaic Installer in Seychelles typically earns approximately \$8,100 USD per year. The salary range can vary from about \$4,000 USD to \$13,500 USD, depending on experience and qualifications.

Population of the country

The current population of Seychelles is 130,924.

Average overhead costs of solar panel production (with a brief breakdown)

Estimate for Factory Rent:

- Talbot Commercial Building, Victoria, Mont Fleuri:
 - Rent: Rs 12,000 per month
 - Size: 63 sqm
 - Features: 4-meter height, electrical roller shutter, large parking area, close to main road, 5 minutes from the airport
- SFA Warehouse, Providence:
 - Rent-Free for 6 months: 954 sqm facility provided by Seychelles Fishing Authority (SFA) to Seychelles Trading Company (STC)
 - Duration: July to December 2022, with a two-year contract.

A summary of the energy infrastructure

Electricity Generation:

- Renewable energy in Seychelles is a relatively recent initiative aimed at diversifying the country's power supply.
- Currently, electricity is primarily generated by diesel-powered generators, which rely on imported fuel (with 69 MW capacity on Mahé and 12 MW on Praslin).
- The national energy policy targets generating 15% of electricity from renewable sources by 2030.

Transmission & Distribution:

- The 33 kV underground transmission network originates at the Roche Caiman Power Station and runs through Providence along the East Coast of Mahé, extending to Turtle Bay.
- From Turtle Bay, it branches out in two directions: one route heads to Anse Boileau via Mont Posée, and the other reaches Anse Boileau via Anse Royale and Quatre Bornes.

Some of the government regulations surrounding solar panel production

In Seychelles, solar panel installation and production are governed by clear regulations aimed at promoting renewable energy while ensuring safety and efficiency. The Seychelles Energy Commission (SEC) oversees the application and approval process for grid-connected photovoltaic (PV) systems, which must also be coordinated with the Public Utilities Corporation (PUC).

- Energy Act, 2012:

- The Energy Act, 2012 governs the overall energy sector in Seychelles, including the production and consumption of renewable energy.

- This act establishes the Seychelles Energy Commission (SEC), which is responsible for regulating energy efficiency, renewable energy sources, and energy security.

Government initiatives in solar panel production (includes investments and subsidies)

Seychelles has implemented several initiatives and subsidies to encourage the use of solar energy and reduce dependency on imported fossil fuels.

- Solar PV Rebate Scheme:

- Objective: Encourage residential and commercial users to install grid-connected PV systems.

- Rebate for Domestic Users: 25% of the cost with a system size cap of 3 kWp.

- Rebate for Commercial Users: 15% of the cost with a system size cap of 15 kWp.

Notable solar projects in the country (installed and projected)

Current Solar Projects:

1. Providence Lagoon Floating Solar Power Plant:

- Capacity: 5.8 megawatts
- Details: This is set to be the world's largest salt-water floating solar power plant, located in Providence Lagoon near Mahé.

2. Ile de Romainville Solar PV Project:

- Capacity: 5 megawatts
- Details: Developed by Masdar and the Public Utilities Corporation (PUC).

3. Grand Anse Mahé Water Management Initiative:

- Capacity: Not directly specified; involves the installation of solar-powered water pumps and low-volume irrigation systems.

Some of the notable solar companies (plus brief details on what they do)

Company Name: Energy Solutions Seychelles

- Website: <https://energysolutionsseychelles.sc/>
- Location: Room 201, Highway Complex, Providence, Mahe, Seychelles
- Products and Services:
 - Solar Energy PV Systems
 - Solar Energy Off-Grid Systems
 - Solar Thermal Hot Water Systems
 - Energy Optimisation

Company Name: Sun Tech Seychelles

- Website: <http://sts.sc/pv-in-seychelles.html>
- Location: Riverside Mont Fleuri, Seychelles

- Products and Services:
 - PV Grid-Tied Technology
 - Site Assessments and Surveys
 - Energy Consultancy and Planning



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All market data, analysis, and conclusions follow JvG's internal consulting standards and international PV market research practices.

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About J.v.G. Technology GmbH

J.v.G. Technology GmbH is a European engineering and advisory specialist for solar production lines and manufacturing equipment, supporting investors and operators with market, location and production-focused decision frameworks.

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