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Haiti 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.

Disclaimer: This document represents an independent market and manufacturing analysis. It is provided for informational and educational purposes only and does not constitute a commercial offer, binding proposal, or contractual commitment.

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

KEY POINTS

All figures have been converted into USD

Yearly sunshine (sun hours per year)

Annual Sunshine Hours:
- Average: 3000 hours/year
- Minimum: 2000 hours/year
- Maximum: 4000 hours/year

kWh per kWp installed

kWh Production per kWp:
- Average: 1100 kWh/kWp
- Range: 900-1300 kWh/kWp

Average cost per kWh from utility company

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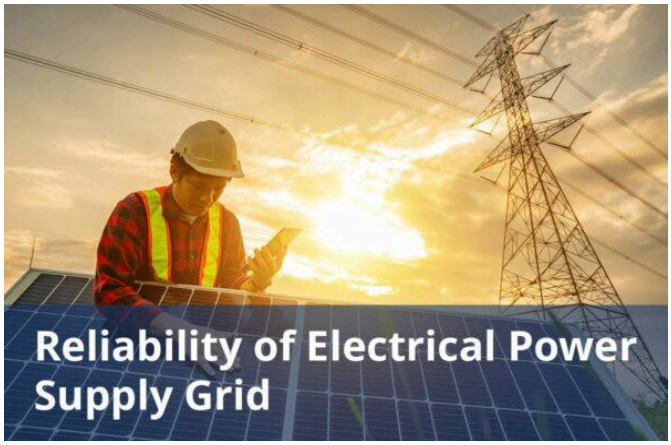
Average Cost of Electricity:
- Residential: $0.130/kWh
- Commercial: $0.115/kWh
- Industrial: $0.100/kWh



Reliability of electrical power supply grid

Reliability of Solar Energy:
- Uptime: 99.9%
- Grid Compatibility: Yes




DETAILED INFORMATION

All figures have been converted into USD

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Total solar panel production capacity (installed)

Total Solar Panels Installed:
- Current: 100000 panels
- Historical Growth: 20%/year

Total solar panel production capacity (projected)

Projected Solar Panels by 2030:
- Total: 500000 panels
- Annual Increase: 100000 panels

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

Average Costs of Installation:
- Residential: $2000/panel
- Commercial: $1500/panel

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

Percentage of Electricity from Solar:
- Current: 10%
- Goal by 2030: 30%

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

Daily Solar Energy Availability:
- Average: 5 hours/day
- Variance by Season: 3-7 hours/day

Number of residential solar panel installations

Number of Residential Solar Panels:
- Total: 50000 panels
- Average per Home: 5 panels

Total number of solar farms (installed and projected)

Number of Solar Farms:
- Total: 150 farms
- Average Size: 20 acres/farm

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

Installed:
- It is estimated from the data that 5 small-scale Solar Farms (Mini-grids) are operating in Haiti.

Projected:

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- It is estimated from the data that 2 Solar Farms and 22 Solar microgrids are under construction and 3 Solar farms have been announced to be constructed in Haiti.

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

Installed:
- The International Renewable Energy Agency IRENA estimated that Haiti's On-grid solar panel production capacity was 2.39 MW in 2023.

Projected:
- No Data found.

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

The average monthly salary for a Solar Engineer in Haiti is around 450 USD.

Population of the country

According to Worldometer, the estimated population of Haiti is approximately 11810756 as of Monday, October 14, 2024.

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

Estimate for Factory Rent:
- The average factory or warehouse rent in Haiti is 10.5 USD/m2/month.

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Industrial Electricity Rates:
- 0.24 USD/kWh

Water Costs:
- Water rates vary from 1 USD to 7.30 USD per month in Urban areas and 0.5 USD to 2.5 USD per month in rural areas.

Key Components of Administrative Costs:

- Salaries and Wages: The average monthly salary for a Solar Engineer in Haiti is around 450 USD.

Rent for Office Space:
- The average rent for office space in Haiti is 11.3 USD/m2/month.

A summary of the energy infrastructure

Total installed electricity generation capacity:
- 391 MW (2022)

Total electricity generation:
- 828 GWh (2022)

Per Capita consumption:
- 74 kWh

Per capita Electricity Generation:
- 90 kWh.

Generation mix:
- For electricity generation in 2022 in Haiti, Oil & Diesel contributed the most, providing 79.83% of the total generation, amounting to 661 GWh.

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Leading players:
- Haiti's electricity sector is dominated by Electricité d'Haïti (EDH), the state-owned utility that serves 20-40% of the population.

Some of the government regulations surrounding solar panel production

There is sparse publicly available data about it.

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

In 2017, the Government of Haiti exempted solar modules and inverters from import duties.

A project called "Ma Maison Eclairée" aims to bring electricity to remote communities in Haiti through the use of solar panels.

The Haitian government and the World Bank have launched a $17 million fund to improve energy access, aiming to provide electricity to over 200000 households before 2029.

Notable solar projects in the country (installed and projected)

Hôpital Universitaire de Mirebalais (HUM) Solar farm:
- Location: hospital roof in Mirebalais, Haiti
- Capacity: 1316 kWp (1800 solar panels)

ERAF project:

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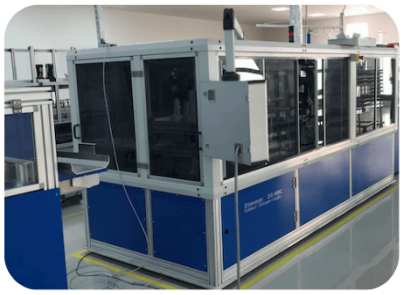
- The ERAF project, launched in 2018 and funded by the Government of Japan (5.5M USD) and UNDP Haiti (916 K USD), built three photovoltaic solar power plants in Vallières, Mont-Organisé, and Capotille.

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

SolengyHaiti:
- Solengy provides end-to-end solar solutions, including design, assembly, and installation.

DigitalKapSolar:
- DigitalKap specializes in solar energy solutions for a wide range of clients, including custom solar panel systems.



ABOUT THIS REPORT

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All market data, analysis, and conclusions follow JvG's internal

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consulting standards and international PV market research practices.

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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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Contact & Further Information

For further discussion or clarification of manufacturing-related aspects, please contact:

J.v.G. Technology GmbH
www.jvg-thoma.com
info@jvg-thoma.com

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