

## European Solar and Energy Storage Solutions

# Guyana solar energy for housing



## Overview

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How many solar home energy systems are distributed in Guyana?

GEA supported the implementation of a massive electrification project to supply, deliver and distribute 30,000 Solar Home Energy Systems to Hinterland and riverine communities in Guyana. A total of 26,398 units were distributed as of December 2023.

How is solar energy used in Guyana?

In Guyana, solar energy is used for several purposes, such as drying agricultural produce and irrigation, ICT, and to improve electricity access in rural areas. Under the Hinterland Electrification Programme, over 19,000 solar PV systems had been installed in nearly 200 communities by 2018.

Is Guyana a good place to install solar PV?

Most locations across Guyana have excellent solar insolation levels and are ideal for solar PV generation. As of 2018, the total installed capacity for Solar PV in Guyana is 4.63 MW, with an estimated annual generation of 7.16 GWh.

How many solar panels will be installed in Guyana in 2019?

In Guyana, 1.184 MW of solar PV systems will be installed at 80 public buildings in all 10 Administrative Regions in 2019.

How many solar PV farms will Guyana have?

Guyana Power and Light Inc. (GPL) is preparing plans for three utility-scale solar PV farms totaling 30 MW for the national grid in the long term, as well as a 0.75 MW Solar PV Farm at Wakenaam and a 4 MW Solar PV Farm at Onverwagt in the near future.

How many mega-scale solar farms are there in Guyana?

Government of Guyana commissioned its second mega-scale solar farm, the

1.5 MW utility-scale solar PV plant at Bartica, Region Seven (Cuyuni-Mazaruni) in March 2023. At twenty-two (22) off-grid locations, GEA installed over 163 kWp of solar PV capacity and 800 kWh of battery energy storage.

## Guyana solar energy for housing

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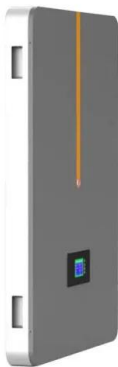


### **GEA distributed over 26,000 solar home energy systems in 2023**

The Government of Guyana commissioned its second mega-scale solar farm, the 1.5MW utility-scale solar PV plant at Bartica, Region Seven (Cuyuni-Mazaruni) in March 2023. At 22 off-grid locations, GEA installed over 163kWp of solar PV capacity and 800kWh of battery energy storage.

### **Guyana making steady progress in transition from conventional energy ...**

Prime Minister Phillips shared Guyana's significant gains in renewable energy capacity, reporting a 224 per cent increase in solar power from 2020 to 2024, through investments in solar photovoltaic (PV) technology, mini-grids, and utility-scale solar farms, which have boosted installed renewable capacity to 17.37 MW.



### **The City of Avalon - Guyana National Housing Trust Society**

As we position ourselves to be one of the best places to live in Guyana, we are tapping into to the housing boom, currently taking place in Guyana today. salons & barbershops, casino, hardware stores etc) For Light Industrial Avalon Energy/Avalon Transportation Terminal, Avalon Water bottling Facility/Avalon Furniture factory/Avalon

## Hinterland solar home installation programme to begin early 2023

Over 136,000 people in hinterland and riverine communities will benefit from government's solar home energy systems in the first quarter of 2023. This includes the installation of 30,000 - 150 watts solar panels, and provision of batteries and lighting kits. Chief Executive Officer of the Guyana Energy Agency, Dr. Mahender Sharma, during his presentation on...



## Guyana continues to pursue sustainable energy future

The GEA supported the implementation of a massive electrification project to supply, deliver, and distribute 30,000 solar home energy systems to hinterland and riverine communities in Guyana. A total of 26,398 ...

## \$472M one megawatt solar farm commissioned at Lethem

Residents of Lethem, Region Nine, are now enjoying first hand reliable and clean energy, with the commissioning of a \$472 million one (1.0) megawatt solar farm in the township on Friday. Already 10,000 liters of diesel or some 63 drums of fuels were saved, since the solar power plant started testing on July 26. The...



## Energy (Gas & Electric) , Utilities in Guyana

Solar electricity has become an increasingly popular option and there are a growing number



of independent providers who install and manage solar panels. Will my devices work? Domestic voltage in Guyana is 110 or 220 depending on the area.

## Rollout of '30,000 solar PV home systems' project for July

The first 1,830 solar photovoltaic (PV) home systems which form part of the '30,000 solar PV home systems' initiative are set to arrive in July. Chief Executive Officer of the Guyana Energy Agency (GEA), Dr. Mahender Sharma, made the announcement at the multistakeholder consultation on the presentation of Guyana's Second Voluntary



## PM Phillips commissions historic grid-forming solar photovoltaic ...

Aligned with the Low Carbon Development Strategy (LCDS) 2030, the Mahdia solar PV farm is part of a broader initiative that has already installed solar PV systems in Lethem and Bartica. Improvements are also slated for Wakenaam and Leguan, among other regions. These efforts aim to increase Guyana's solar energy capacity to over 39 MW by 2025.

## GEA recorded major progress in 2023, advances renewable energy ...

In 2023, the solar PV installed capacity increased by 6.661 megawatts to 14.62 megawatts with the additions that include the 1.5 megawatts Bartica solar PV farm, completion of 21 solar mini-grids, 22 solar PV systems at public buildings, and distribution of 26,398 solar home energy systems.



## Guyana-India joint statement following Indian Prime Minister

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His Excellency Dr Mohamed Irfaan Ali, President of the Co-operative Republic of Guyana, was pleased to host the Honourable Shri Narendra Modi, Prime Minister of the Republic of India, for a State Visit to Guyana from November 19-21, 2024. o President Ali and Prime Minister Modi held extensive discussions on bilateral, regional and multilateral issues [...]

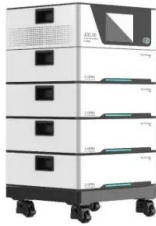
## Guyana set to roll out solar PV systems for hinterland homes this ...

Guyana government moving to close energy gap between coast and hinterland. The undertaking, formally known as the '30,000 solar home systems' project, was designed to balance the energy gap between urban and rural areas, simultaneously propelling the nation towards sustainable, eco-friendly power sources. Under this project, a total of



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**Efficient Higher Revenue**
  - Max. Efficiency 97.5%
  - Max. PV Input Voltage 600V
  - 100% Peak Output Power
  - 3 MPPT Trackers, 150% DC Input Overvoltage
  - Max. PV Input Current 10A, Compatible with High-Power Modules
- 
**Intelligent Simple O&M**
  - IP66 Protection Degree: support outdoor installation
  - Smart I-V Curve Diagnosis Function: locate PV array faults accurately and automatically detect faults
  - DC & AC Type II SPD: prevent lightning damage
  - Battery Reverse Connection Protection
- 
**Flexible Abundant Configuration**
  - PFC & PFC, EPS Switching Under 20ms
  - Compatible with Lead acid and Lithium Batteries
  - Max. 6 Units Inverter Parallel
  - MPPT Function (Optional): when an acc. fault is detected the inverter immediately stops operation

## Govt to roll out "30,000 solar PV home systems



The 30,000 solar home systems project will see some 30,000 homes in hinterland communities receiving 150-watt solar PV systems to bridge the energy divide that exists between the urban and rural areas of the country.

## Guyana continues to pursue sustainable energy future

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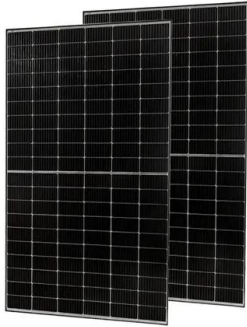
## Solar energy

SOLAR energy forms an integral part of any country's plan in addressing alternative energy. Where Guyana is pursuing a Green Economy, as a matter of its primary developmental thrust, whenever a business or individual switches to this form of energy, such act takes the country closer to the goal.

## Solar - Guyana Energy Agency

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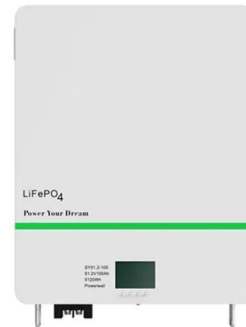


## Sod turned for 5MW solar farm in Region Two - DPI Guyana

Prime Minister, Brigadier (Ret'd) Mark Phillips on Thursday turned the sod for a state-of-the-art solar farm facility in Onderneeming, Region Two. The prospective power station forms part of the government's aim to move away from the complete reliance on heavy fossil fuel, in keeping with its policy of providing an energy mix. Prime Minister Brigadier...

## Solar farms to be constructed at Charity, Onderneeming

AS part of regional developments across the country and to ensure that every resident benefits from a more comfortable and enhanced lifestyle, the Regional Chairman of Region Two, Vilma De silva, along with other regional officials and representatives from the Guyana Utility Scale Solar Photovoltaic Programme (GUYSOL), recently met and discussed ...



## More from this author

By combining housing with sustainable agriculture and renewable energy, the government aims to create a model of self-sufficiency that could improve community development across Guyana. The President emphasised that initiatives like the Homestead Programme are born out of a deep commitment to the welfare of all Guyanese citizens.

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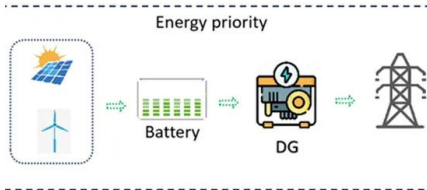
-26,398 solar home systems distributed; 21 solar mini-grids installed THE Guyana Energy Agency (GEA) reported significant progress in its renewable energy projects throughout 2023, marking a substantial step towards the country's goal of decoupling economic growth from fossil fuels and harnessing its low-carbon resources. These advancements



## **Guyana's Energy Future is Renewable - Guyana Energy Agency**

The 1.5-megawatt solar farm at Bartica, Region Seven (Cayuni-Mazaruni) that provides renewable energy. Through the LCDS 2030, Guyana has moved to implement an Energy

Supply Matrix, which will provide an energy mix of low-carbon resources solar, hydro, wind and natural, to build a more sustainable future.



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