

The aim of this paper is to give an overview of the energy sector and the current status of photovoltaic (PV) systems in Suriname and to investigate which role PV systems can play in this country's future energy transition.

The performance of a grid-connected photovoltaic (PV) system, under the Surinamese weather conditions, is monitored and reported. A measurement and data-logging system provides inputs for the calcu...

In this study, PVSyst 6.3.9 and RETScreen 4.0 software were utilised to model and simulate the performance of the PV system. The financial analysis was carried out using the RETScreen 4.0 software. PVSyst makes it possible to design, size and analyse PV systems.

Suriname receives high levels of solar irradiation (GHI) of 5.4 kWh/m<sup>2</sup>/day and a specific yield 4.3 kWh/kWp/day indicating a high technical feasibility for solar in the country.<sup>8</sup> Suriname's gold mine company site has battery energy storage system (BESS) of capacity 7.8 MW/7.8 MWh.<sup>9</sup>

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Master grid study for the Suriname power system CESI won the international tender to research the best way to expand Suriname's power system and integrate renewable generation in order to reduce reliance on fossil fuels.

presenting the current status of Photovoltaics (PV) systems in Suriname. The final goal of our study was to investigate which role PV systems can play in this country's future energy transition.

This paper evaluates the economic feasibility of the use of photovoltaic (PV) systems in thirty - three villages in the Upper Suriname River region . This region concentrates more than 15 ...

This research work presents guidelines for researchers to evaluate the feasibility of suitable PV technologies for the SME sector thereby helping investors to have a holistic view of potential...

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