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(a) Aerial map of NUST. (b) Solar PV power potential. (Source: Google Maps, 2024. Used under principles of fair use for educational and non-commercial purposes. Available from: https://).

The term "Final Yield" (YF) refers to the total alternating current (AC) energy produced by the PV system over a specified time period. It represents the number of hours the PV array would have to run at maximum capacity to generate the same quantity of electricity. This parameter is crucial in determining the efficiency and performance of a solar PV system (5)72,

The capacity factor is an important parameter in assessing the overall performance and productivity of a power generation system, showing its ability to produce energy consistently through time. The inverter efficiency, also known as conversion efficiency, is determined by the ratio of AC power generated by the inverter to DC power produced by the PV array system, and the system efficiency is calculated as PV module efficiency multiplied by inverter efficiency, (6)-(9)72,

Natural energy losses occur in different components of a grid-connected Solar Photovoltaic (SPV) power plant operating under real-world conditions. The monitored data generated from the system"s performance is used to analyze these inherent losses. Energy losses in solar photovoltaic (SPV) power plants are unavoidable due to a variety of variables. Understanding and correcting these inefficiencies is critical for improving plant efficiency and energy generation. Monitoring effectively delivers vital insights for improved performance (10)72,

These losses are attributed to cell temperatures surpassing 25 ?C, leading to thermal inefficiencies. The thermal capture loss (LCT) is quantified as the difference between the reference field and the corrected reference field (11), (12)72,

Losses generated by energy conduction within the photovoltaic modules contribute to miscellaneous capture

loss (LCM). Addressing these diverse factors plays a crucial role in minimizing losses and optimizing the SPV power plant"s overall performance.

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Web: https://www.hollanddutchtours.nl/contact-us/
Email: energystorage2000@gmail.com
WhatsApp: 8613816583346