

NKOSITHANDILEB SOLAR

Latest solar container communication station energy management system design



Overview

What are the requirements of communication systems in a PV plant?

The requirements of the communication systems were defined based on the applications that control the PV plant, and on the industry-standard IEC-61724-1 norm for PV data. After being developed, the communication systems were installed in a PV plant, and the interaction between the data obtained from these two systems is discussed and presented.

Which communication system is used to capture ASC photos?

Two communication systems were developed, one dedicated to PV and BESS equipment that uses Modbus protocol and the other to capture ASC photographs. Although both communication systems serve as data acquisition tools, the first also has the ability to write data on the equipment.

What type of data does a PV/Bess plant use?

Type and source of data: all real-time data from the PV/BESS plant. Modbus is an asynchronous communication protocol in which data are sent by the server only when requested by the client . Despite its age, the protocol is still widely used mainly due to its open license.

Can ASC photographs be used to study cloud effects on PV plants?

Additionally to the parameters measured in PV plants as suggested in , ASC photographs were added to the data collected at the experimental plant described in this work. They are highly useful in experimental plants researching cloud effects on PV plants.

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