



GermanSolarZA

Distribution of energy management systems at solar container communication stations in Pretoria





Overview

Are communication and control systems needed for distributed solar PV systems?

The existing communication technologies, protocols and current practice for solar PV integration are also introduced in the report. The survey results show that deployment of communication and control systems for distributed PV systems is increasing.

Can distributed solar PV be integrated into the future smart grid?

In the report, the communication and control system architecture models to enable distributed solar PV to be integrated into the future smart grid environment were reviewed. The existing communication technologies, protocols and current practice for solar PV integration are also introduced in the report.

Do distributed PV systems need a grid-scale coordinated control network?

The increasing penetration of distributed PV systems also request for a grid-scale coordinated control network. The control paradigm of current electrical power system is slow, open-looped, centralized, human-in-the-loop, deterministic and, in worst-case, preventive.

What is the centre of new energy systems?

The mission of the Centre of New Energy Systems is to be a world-class centre of excellence that addresses the research, education, development, and industrial applications of energy optimization and management. The thematic focus on energy management includes both the management of supply side and demand side.



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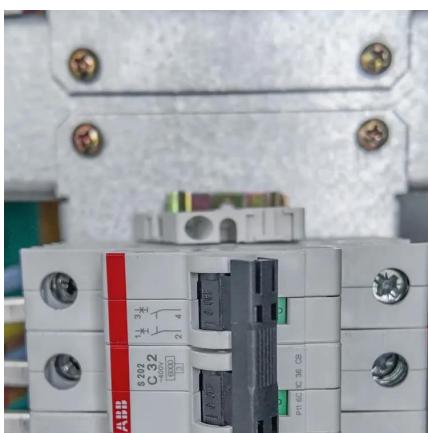
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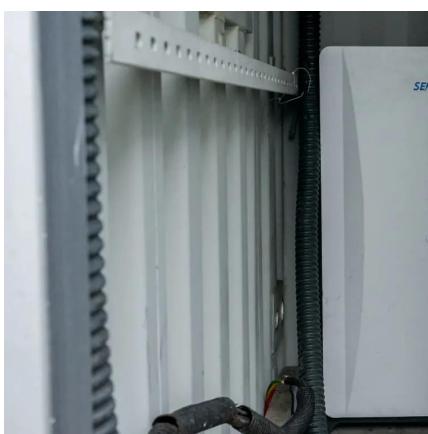
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