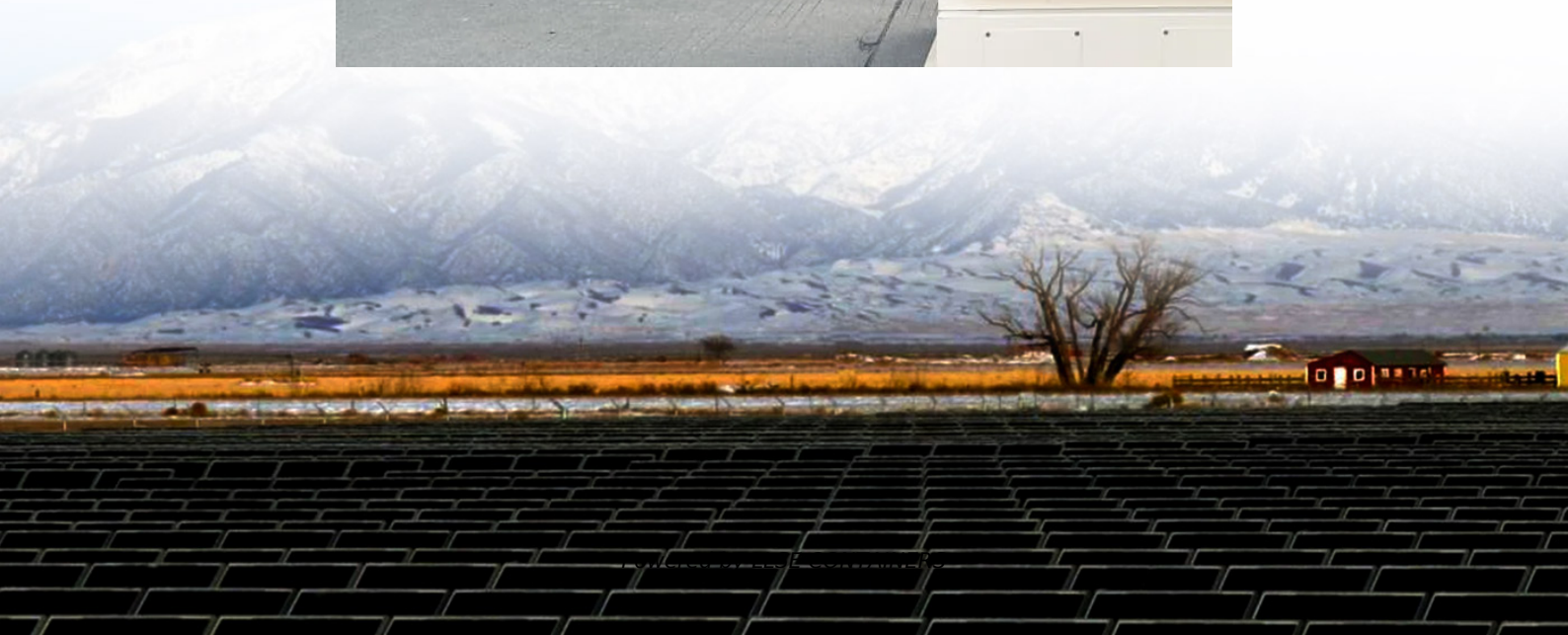


High temperature solar system in Johannesburg South Africa





Overview

Do large-scale solar thermal systems exist in South Africa?

This work analyses large-scale solar thermal (ST) systems in South Africa (SA) to provide insight into the existing market status, case studies, barriers and recommendations. A database of 89 large-scale ST systems (gross collector area > 10 m²) in SA has been generated and analysed with regards to costs, applications and beneficiary industries.

Is Johannesburg a good location for solar PV generation?

Johannesburg, Gauteng, South Africa, situated at a latitude of -26.3811 and longitude of 27.8376, is a favorable location for solar PV generation due to its relatively high average daily solar irradiance throughout the year.

Where can I find information about solar thermal systems in South Africa?

A database has been set up by Stellenbosch University containing information on large-scale solar thermal systems in Southern Africa commissioned since 2007. The data were collected from an existing database of Blackdot Energy, from the Soltrain 1 and 2 projects and data gathered directly from ST companies active in the SA.

How to optimize solar generation in Johannesburg South Africa?

Assuming you can modify the tilt angle of your solar PV panels throughout the year, you can optimize your solar generation in Johannesburg, South Africa as follows: In Summer, set the angle of your panels to 10° facing North. In Autumn, tilt panels to 32° facing North for maximum generation.



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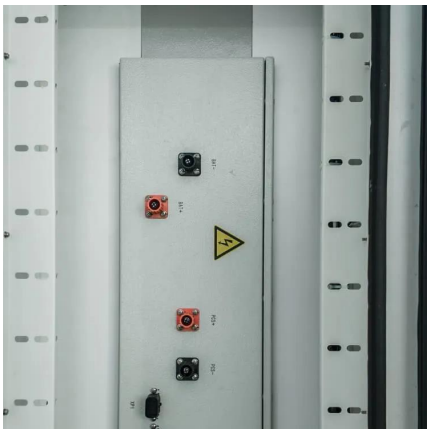


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