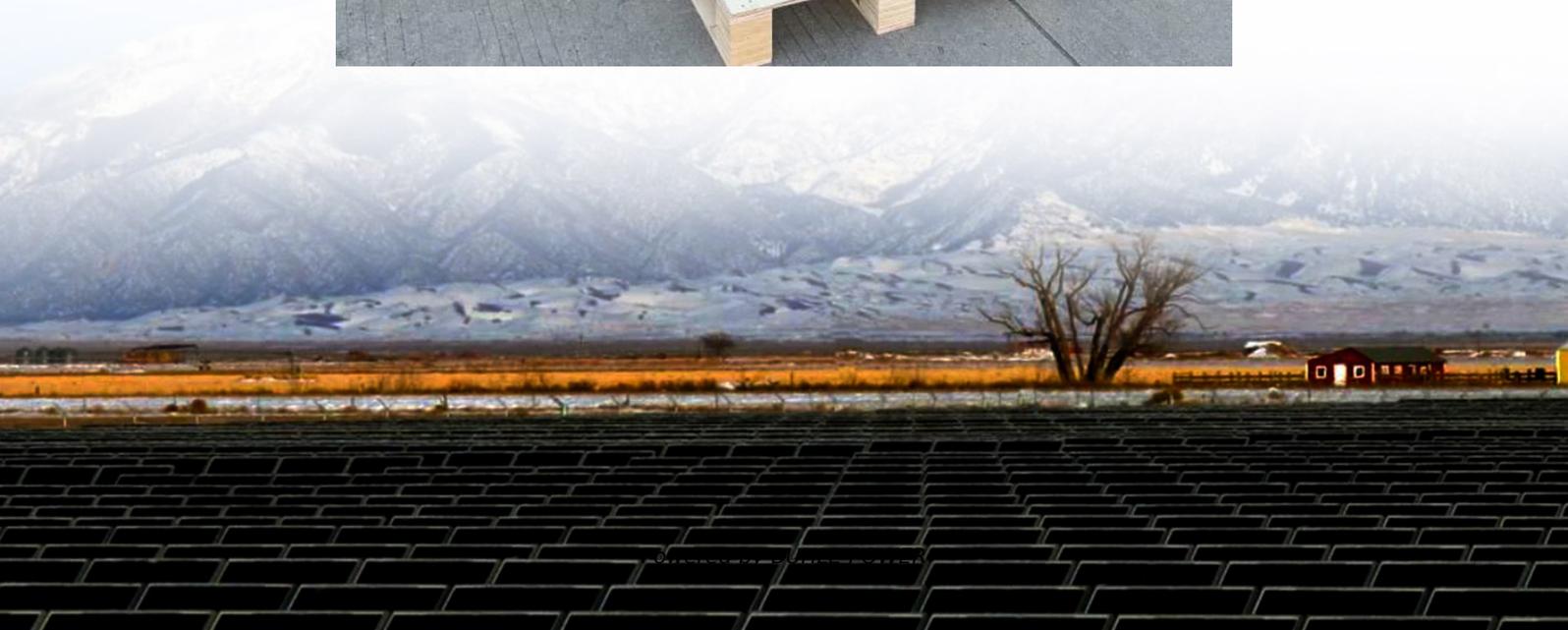


# South Africa High Temperature Solar System





## Overview

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South Africa's industrial sector relies primarily on coal and gas to meet process heat requirements (700–750 petajoules per annum). Much of this energy is used to fire steam boilers operated at less than 200 °C.

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 m<sup>2</sup>) in SA has been generated and analysed with regards to costs, applications and beneficiary industries.

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.

Can solar power be used in South Africa?

They found that SPV systems can be deployed in South Africa and supply approximately 5 GW over a decade. Their findings also indicated that solar power in South Africa could become competitive with coal-fired power, providing clean and secured energy for the country's growing demand .

Is solar PV the solution to South Africa's energy crisis?

Sustainable energy supply has been an immense challenge in South Africa due to ageing power plants and growing demand. Renewable energy sources have been identified to mitigate the country's energy woes with solar PV at the forefront.



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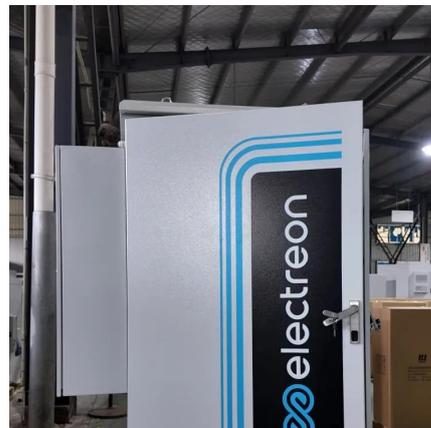
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