

# **Redstone concentrated solar power project**





## Overview

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This is the 100 MW Redstone Concentrated Solar Thermal Power (CSP) Project being built by SEPCOIII Electric Power Construction Corporation, a subsidiary of POWERCHINA. It is not only the first (Tower) CSP project in sub-Saharan Africa, but also one of the largest renewable energy investment projects in South Africa. What is Redstone concentrating solar thermal power (CSP)?

Collectively, these mirrors resemble a colossal sunflower, symbolically blossoming on the soil of the vibrant “Rainbow Nation.” This is the 100 MW Redstone Concentrated Solar Thermal Power (CSP) Project being built by SEPCOIII Electric Power Construction Corporation, a subsidiary of POWERCHINA.

What is Redstone CSP project?

This page provides information on Redstone CSP project, a concentrating solar power (CSP) project, with data organized by background, participants, and power plant configuration.

How does Redstone CSP work?

Redstone, the first Tower CSP plant in South Africa is completed. This image taken August 20, 2024 shows how the solar receiver atop the tower is activated by the reflected sunlight from the solar field of heliostats (mirrors) surrounding the power block seen here below the tower: IMAGE©Xinhua (by Zhang Yudong).

Where is Redstone power plant located?

Located in the Northern Cape Province of South Africa, the Redstone plant will be equipped with a 12-hour thermal storage system that will deliver clean and reliable electricity to nearly 200,000 households round the clock. Commencement of operations is scheduled for Q4 2023.

Where is the Redstone project located?



Located in the Northern Cape Province of South Africa, the Redstone project will be equipped with a 12-hour thermal storage system that will deliver clean and reliable electricity to nearly 200,000 households round the clock. Commencement of operations is scheduled for Q4 2023.

Will Redstone deliver a stable electricity supply in South Africa?

Redstone with 12 hours of full-load energy storage will be able to reliably deliver a stable electricity supply to more than 200,000 South African homes during peak demand periods, even well after the sun has set.



## Redstone concentrated solar power project

### Redstone Concentrated Solar Power Project in South ...



Construction is currently in progress at the Redstone Concentrated Solar Power Project, which is situated in the Humansrus Solar Park, in the Northern Cape, between Tsanstabane and Kgatelopele. 100 ...

### SOUTH AFRICA: CDC invests \$50m in the Redstone solar project ...

CDC Group, the UK government's development finance institution, is investing \$50 million in the Redstone Concentrated Solar Power (CSP) project in South Africa. The plant will feed 100 MW into the grid of the state-owned utility Eskom.

HEAT DISSIPATION

Cold aisle containment, making optimal refrigeration effect:



### ACWA Power secures R11,6 billion for the Redstone CSP project

Saudi renewable energy developer, ACWA Power, has announced a ZAR11.6 billion financial close for the 100 MW Redstone concentrated solar power (CSP) plant in South Africa. The ZAR11.6 billion total investment for the Redstone project makes it the largest renewable energy investment in South Africa to date.



### South Africa's Redstone concentrated solar project achieves ...

Concentrated solar power project show viability of solar power as baseload energy Located 30kms east of Postmasburg, close to Kimberley in the Northern Cape Province the Redstone



project will be equipped with a 12-hour thermal storage system to deliver clean and reliable electricity to nearly 200,000 households round the clock.



### **South Africa's largest solar power plant begins ...**

Construction of South Africa's largest renewable energy project to date - the Redstone concentrated solar power (CSP) plant - has commenced. The R11.6 billion solar farm will be built

### **South Africa's largest renewable energy project Redstone CSP ...**

South African Redstone concentrated solar power (CSP) project has achieved its first debt drawdown on the largest renewable energy investment in South Africa to date. The African Development Bank acted as the Mandated Lead Arranger (MLA) and Coordinating Bank for the ZAR 11.6 bn total investment, with a commitment of ZAR 2.306 billion to the transaction.



### **(FOCAC) Feature: Chinese-built solar plant helps bring**

This is the 100 MW Redstone Concentrated Solar Thermal Power (CSP) Project being built by SEPCOIII Electric Power Construction Corporation, a subsidiary of ...



114KWh ESS



### South Africa's largest renewable energy project Redstone concentrated

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### Redstone Concentrated Solar Thermal Power Project in South Africa

An aerial drone photo taken on Aug. 20, 2024 shows a view of the Redstone Concentrated Solar Thermal Power Project near Postmasburg in Northern Cape Province of South Africa. The project is one of

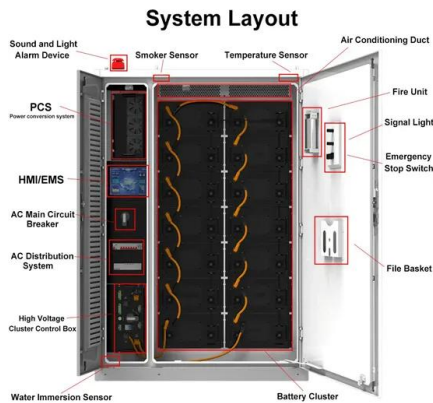


### Redstone Concentrated Solar Power Project On Track In South ...

The Redstone Solar Plant is in the Humansrus Solar Park between Tsanstabane and Kgatelopele in the Northern Cape, with construction underway. On completion, which is expected around 2023, 100 megawatts (MW) of power will be added to the national grid. The plant will be operational by early 2024. The South Africa



Department of Energy (DOE) awarded



### SA's largest renewable energy project Redstone CSP achieves financial

ACWA Power, the Saudi developer, investor and operator of power generation and water desalination plants has announced the commencement of construction on the 100MW Redstone project following achievement of financial close. At ZAR 11.6 billion (\$162.457

### Redstone, the First Tower Concentrated Solar Power Plant in ...

This is the 100 MW Redstone Concentrated Solar Thermal Power (CSP) Project being built by SEPCOIII Electric Power Construction Corporation, a subsidiary of ...



### Redstone , Concentrating Solar Power Projects , NREL

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**In pics: Redstone Concentrated Solar Thermal Power Project in ...**

The project is one of the country's biggest renewable energy power plants. (Xinhua/Zhang Yudong) Staff members work at the Redstone Concentrated Solar Thermal Power Project near Postmasburg in Northern Cape Province of South Africa, Aug. 20, 2024.



**100MW solar power project to start construction this year**

100MW solar power project to start construction this year, supplying power to 210,000 South African homes even during evening peak demand periods once operational. In the presence of the President of South Africa, H.E. Cyril Ramaphosa, on the occasion of his

**In pics: Redstone Concentrated Solar Thermal Power Project in ...**

An aerial drone photo taken on Aug. 20, 2024 shows reflector arrays of the Redstone Concentrated Solar Thermal Power Project near Postmasburg in Northern Cape Province of South Africa. The project is one of the countrys ...



**Redstone Concentrated Solar Power Project in South Africa to ...**

Other huge investors in the project include the Public Investment Commission with 13.5%, Community with 12.5%, Old Mutual Life Assurance South Africa with 10%, and Pele Green with 4%. WorleyParsons carried out the Redstone Solar Thermal Power Plant's



### PROJECT: REDSTONE 100MW CONCENTRATED SOLAR POWER (CSP) PROJECT ...

The Project Company will construct and operate a 100 MWnet Concentrated Solar Power (CSP) Plant, known as the ACWA Power SolarReserve Redstone Solar Thermal Power Plant. The Project will be situated on the Remaining Extent of the Farm No. 469



#### INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,  
FLEXIBLE DEPLOYMENT

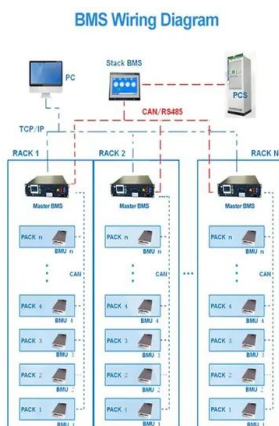
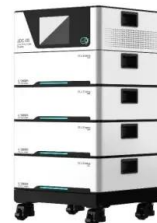


#### South Africa

This Construction Environmental and Social Management Plan (CESMP) and Operational Environmental and Social Management Plan (OESMP) has been compiled for the ACWA Power SolarReserve Redstone Solar Thermal Power Plant as per the Environmental Authorisation. The Project, situated on the Remaining Extent of the Farm No 469, involves the construction and ...

#### South Africa's Largest Renewable Energy Project Redstone , DBSA

At ZAR 11.6 bn total investment, the largest renewable energy investment in South Africa to date, the Redstone concentrated solar power (CSP) project has achieved its first debt drawdown. ...



#### Redstone concentrated solar power plant, South Africa - update

Name of the Project Redstone concentrated solar power (CSP) plant. Location Postmasburg, near Kimberley, in the Northern Cape, South Africa. Project Owner/s The project will be owned by Acwa Power



### South Africa's Largest Renewable Energy Project Redstone , DBSA

o The ZAR 11.6 billion Redstone concentrated solar power (CSP) project to power 200,000 households upon completion o Commercial operation scheduled to start in Q4 2023 o The Development Bank of Southern Africa (DBSA) has provided total commitments of R1.91billion to the transaction.



### Concentrated solar power plant on track for 2023 commissioning ...

Redstone Concentrated Solar Power Project Set to produce 480,000 MW of clean energy per year while offsetting approximately 440,000 tons of CO2 emissions, the 100 MW Redstone Solar Thermal Power Project will supply up to 210,000 South African households with clean, reliable electricity following its commencement of operations at the end of 2023.



### South Africa's largest renewable energy project Redstone concentrated

ABIDJAN, Ivory Coast, February 11, 2022/APO Group/ -- Commercial operation scheduled to start in Q4 2023; The African Development Bank ( ) acted as the Mandated Lead Arranger and Coordinating Bank, committing ZAR 2.306 billion to the transaction; The ZAR 11.6 billion Redstone concentrated solar power (CSP) project will provide power to ...



### [Redstone Concentrated Solar Project](#)

Redstone Concentrated Solar Project is a solar thermal farm under construction in Tsantsabane Local Municipality, ZF Mgcawu District Municipality, Northern Cape, South Africa. Project Details Table 1: Phase-level project details for Redstone Concentrated Solar Project



**(FOCAC) Feature: Chinese-built solar plant helps bring**

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**100MW Redstone Concentrated Solar Power with 12 Hours Daily ...**

ACWA Power has led South Africa's largest renewable energy project Redstone CSP to financial close. The ZAR 11.6 billion Redstone concentrated solar power plant will power 200,000 households upon completion. Redstone CSP Closes Financing May 2021



**Redstone Concentrated Solar Power Project On Track In South ...**

Eskom entered a 20-year power purchase agreement with the construction consortium for the off-take of power generated at the Redstone Solar Thermal Power plant. The project will be connected to the national grid by a new 132 kV switching station and a 34-km long 132-kV transmission line.





### Redstone Solar Thermal Power Project achieves first grid ...

An aerial view of the Redstone Solar Thermal Power Plant. A photo of staff involved in the project. The Redstone 100-megawatt Solar Thermal Power Plant Project in South Africa, built by POWERCHINA, achieved its first grid connection on Sept 14, marking a significant milestone in the project's progress.



### South Africa: Redstone Solar Power Park Set for 2023 ...

South Africa's Redstone concentrated solar power (CSP) project is currently on track for commissioning by 2023. The project, which was launched under Bid Window 3.5 of the country's Renewable Energy Independent Power ...



### ESS



### TEM: Redstone Concentrated Solar Power Project, South Africa's

The Redstone Concentrated Solar Power Project in South Africa is the first of its kind to be developed in Africa and is expected to bring additional power to

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