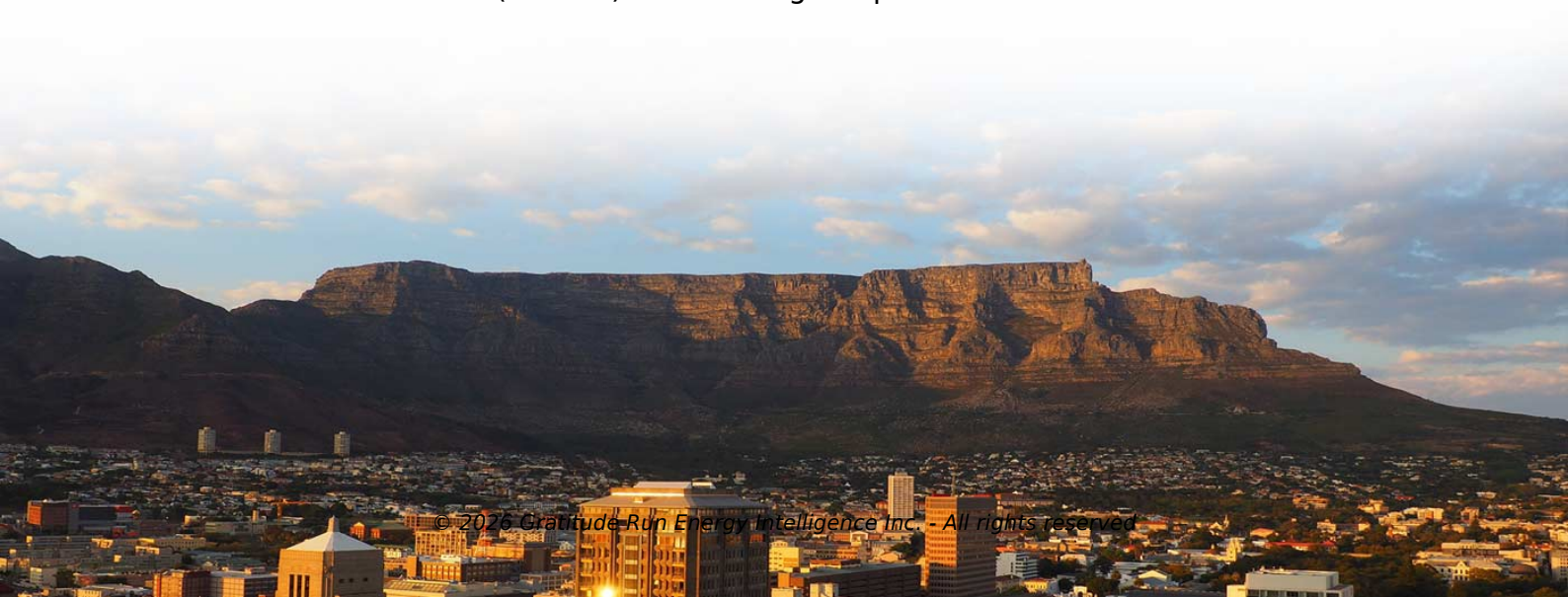


Redstone Solar Power Plant



Overview

The first of its kind in Africa, the Redstone Solar Thermal Power Project features molten salt energy storage technology in a tower configuration with the capability to support South Africa's demand for energy when it's needed most – day and night. SolarReserve's unique solar + storage technology does not require any natural gas backup. Storage allows the facility to produce more than twice as much net annual output (gigawatt hours) than an equivalent sized photovoltaic (PV) solar project. Storage will enable the plant to operate just like a. Redstone Solar Thermal Power (RSTP) is a solar power tower with molten salt energy storage, located in Postmasburg, near Kimberley, in the Northern Cape Region of South Africa. Redstone will have a capacity of 100 megawatts (MW) to deliver power to 200,000 people and was awarded in bid window 3. Located in Postmasburg, Northern Cape Province, South Africa, it is one of the most massive renewable energy investment projects in the country and attained its first partial grid. The Redstone Concentrating Solar Power Plant (CSP) Project is designed to design, build, operate and maintain a 100 MW capacity concentrated solar power plant. 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.



Article Content

South Africa: 100MW Redstone Concentrated Solar

ACWA Power, a lead shareholder in the Redstone concentrated solar power (CSP) plant, announced the commencement of construction on the

Redstone Solar Thermal Power

Redstone Solar Thermal Power (RSTP) is a solar power tower with molten salt energy storage, located in Postmasburg, near Kimberley, in the Northern Cape Region of South Africa. Redstone will have a capacity of 100 megawatts (MW) to deliver power to 200,000 people and was awarded in bid window 3.5 of the REIPPP at a strike price of 122.3 ZAR/KWh including time of day pricing in 2015. The project was initially based on the technology of now bankrupt Solar Reserve, but was delayed for several years because th

South Africa gets R11.6-billion solar plant with biggest

More than a decade in the making, the Redstone concentrated solar plant is the first of its kind in South Africa to support 12 hours of backup power

How a Bank Resurrected SolarReserve's Redstone

SolarPACES interviewed Bernard Geldenhuys, the Senior Transactor in the Power and Infrastructure team at Investec Bank, a lender with 8,300

Acwa | Redstone CSP IPP

Redstone CSP IPP The 100MW Redstone Concentrated Solar Power (CSP) plant forms part of the South African Renewable Energy Independent Power Producer (REIPP) Procurement Program and

Acwa | Redstone CSP IPP

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

Redstone Tower CSP project in South Africa begins

Redstone, the first Tower CSP plant in South Africa is completed and ready for final testing. This image taken August 20, 2024 shows how the solar

Redstone | Concentrating Solar Power Projects | NLR

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

REDSTONE CSP solar plant

REDSTONE CSP solar plant is an operating solar thermal farm in Tsantsabane Local Municipality, ZF Mgcawu District Municipality, Northern Cape, South Africa. The map below shows the exact location

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100MW Redstone CSP reaches full commercial

Mr Nandu Bhula, country manager for ACWA Power, reports that Redstone Solar Thermal CSP Power Plant (Redstone CSP) is now officially in

Redstone Concentrated Solar Power Plant | DBSA

The Redstone Concentrated Solar Power (CSP) plant is the largest renewable energy investment in South Africa to date and is on course to be completed in the fourth quarter of 2023. This project,

Redstone: SSA's first Concentrated Solar Thermal

Located in Postmasburg, Northern Cape Province, South Africa, it is one of the most massive renewable energy investment projects in the country

South Africa: Acwa Power's Redstone concentrated

Saudi Arabia's Acwa Power has commissioned the 100MW Redstone concentrated solar power plant in South Africa's Northern Cape. It

Redstone Solar Plant Powers a Greener South Africa

South Africa has made a groundbreaking leap in the realm of renewable energy with the official commissioning of the 100-megawatt Redstone

Redstone Tower CSP project in South Africa begins

The 100 MW Redstone Concentrated Solar Thermal Power (CSP) Project is not only the first CSP project in sub-Saharan Africa, but also one of the

Redstone Solar Plant Powers a Greener South Africa

The Redstone project represents a key advancement in South Africa's broader strategy to diversify its energy mix and reduce reliance on coal-fired

100MW Redstone Concentrated Solar Plant has been

At ZAR 11.6 billion total investment, the Redstone project is the largest renewable energy investment in South Africa to date. Located in the

South Africa

The purpose of the project is to add 100 MW of new, reliable, dispatchable, solar energy generation capacity, thus closing the energy supply gap, reducing dependence on coal, saving

Redstone concentrated solar power plant, South Africa

The Redstone project has achieved its first debt drawdown on the biggest renewable-energy investment in South Africa to date.

South Africa's Redstone solar plant connects to grid

South Africa's first solar thermal power plant using molten salt technology has been connected to the national grid. Located in the Northern Cape, the Redstone project is expected to boost ...

ACWA Power Starts South Africa's Largest Renewable

ACWA Power, a leading Saudi developer, investor and operator of power generation and water desalination plants in 13 countries and the lead

Redstone: SSA's first Concentrated Solar Thermal

The 100MW Redstone Concentrated Solar Thermal Power (CSP) plant is the first tower CSP project in sub-Saharan Africa. Located in

Redstone, the First Tower Concentrated Solar Power

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

100MW Redstone Concentrated Solar Plant has been

Nandu Bhula, country manager for ACWA Power, reports that the 100MW Redstone Concentrated Solar Plant has been synchronised to the

Contact Us

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