

How will gold fields' solar plant benefit South deep?

The R715 million (\$38 million) solar plant will enhance the sustainability of South Deep and contribute to Gold Fields' long-term commitment to Net Zero. Gold Fields is aiming for 30% of renewable energy by 2030 and to be carbon neutral by 2050.

What is Khanyisa solar PV?

Construction of the 50 MW Khanyisa solar PV plant at Gold Fields' South Deep Mine in South Africa has just been completed. Khanyisa means Light Up in Setswana. The name was chosen by the people of South Deep. South Deep is in the process of finalizing the commissioning and optimizing of the plant.

How will a solar plant benefit South deep?

The R715m solar plant will enhance the sustainability of South Deep and contribute to Gold Fields' long-term commitment to Net Zero. South Deep currently consumes around 494GWH of electricity per year which represents 10% of the mine's annual costs and 93% of its carbon emissions. The solar plant can generate 50MW or 103GWh/year.

What is a solar energy solution for a mining project?

What will be the largest combination solar, thermal/heavy fuel oil (HFO) and battery storage energy generation solution for a mining project once complete, will secure significantly lower costs and reduced carbon emissions and offer a longer-term sustainable power source for local communities. The agreement

Is solar power a first mover advantage for gold mining?

"Developing one of the most advanced mining automation systems in the world, and delivering the largest solar hybrid power plant solution for a gold mining project in the world is demonstrating our first mover advantage, but the benefits will be worth the effort - for the business, and all other stakeholders," he emphasises.

When will Khanyisa solar plant be completed?

Construction of the 50MW Khanyisa solar plant has been completed and came online in August 2022. The R715m solar plant will enhance the sustainability of South Deep and contribute to Gold Fields' long-term commitment to Net Zero.

It includes a 30-megawatt (MW) solar plant plus 15.4 megawatt-hours (MWh) battery storage and the existing 64 MW thermal plant. Currently, the Fekola Gold Mine installation is the world's largest off-grid mining hybrid ...

Nord Gold has signed an exclusive agreement with the consortium of Total Eren and Africa Energy

Management Platform to build a 13-megawatt solar photovoltaic power plant at the ...

Comprised of 26,640 solar modules over 20.1 hectares, the Elikhulu solar plant provides an estimated 30% of the gold mine's electricity requirements. Built by JUWI Renewable Energy at a cost of R150 million, the ...

Recently the solar inclinometer ZCT1360J-LBS-BUS-77 has been used in an open-type Agricultural Light Complementary Photovoltaic Power Generation Program based in Ningxia ...

With a view to reducing its carbon footprint as well as addressing the uncertainty of the supply and cost of electricity, surface gold mining company DRDGold has taken a ...

The plant situated at Evander Gold Mines will provide an estimated 30% of Elikhulu's power requirement and reduce electricity costs. ... Pan African Resources ...

Elko, Nevada - Nevada Gold Mines (NGM) is investing in a 200-megawatt (MW) solar power plant designed to accelerate its decarbonization program in line with the Barrick ...

Harmony Gold Mining Co Ltd (Harmony) is a gold exploration and mining company. It carries out underground and surface gold mining, exploration, processing and ...

The new 50 MW plant will generate 103 GWh per year. The Khanyisa plant will help lower energy costs dramatically, saving around R123 million (\$6.7 million), or 24% of electricity costs per year.

Harmony Gold Mining Company Limited ("Harmony") has concluded a power purchase agreement ("PPA") facilitating the construction of three solar photovoltaic plants totalling 30MW in the Free State as Phase 1 of ...

Power Factors" Local E MS (Energy Management System) has been successfully deployed to manage a complex hybrid off-grid power system at a gold mine, enabling the integration of renewable energy sources into its operations.

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