

**Power Technology**

Market Data December 27, 2021

# Droogfontein Solar Park, South Africa

Carmen



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**D**roogfontein Solar Park is a 50MW solar PV power project. It is located in Northern Cape, South Africa. The project is currently active. It has been developed in single phase. The project construction commenced in 2012 and subsequently entered into commercial operation in April 2014.

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Project Type	Total Capacity (MW)	Active Capacity (MW)	Pipeline Capacity (MW)	Project Status	Project Location	Project Developer
Solar PV	50	50	-	Active	Northern Cape, South Africa	<a href="#">Genesis Eco-Energy</a> ; <a href="#">Globeleq Africa Management Services</a> ; <a href="#">Mainstream Renewable Power</a> ; <a href="#">Siemens</a>

### Description

Project was developed by [Genesis Eco-Energy](#), [Globeleq Africa Management Services](#), [Mainstream Renewable](#)

**Solar Photovoltaic (PV) in South Africa, Market Outlook to 2030, Update**

Power and Siemens. [Enzani Technologies](#), Globeleq South Africa Management Services, [Thebe Investment](#) and Usizo Engineering are currently owning the project.

Droogfontein Solar Park is a ground-mounted solar project which is spread over an area of 90 hectares.

The project generates 85,458MWh electricity and supplies enough clean energy to power 30,000 households, offsetting 79,368t of carbon dioxide emissions (CO<sub>2</sub>) a year. The project cost is \$144.3m.

### Development Status

The project construction commenced in 2012 and subsequently entered into commercial operation in April 2014.

### Power Purchase Agreement

The power generated from the project is sold to [Eskom Holdings SOC](#) under a power purchase agreement for a period of 20 years from 2014. The contracted capacity is 50MW.

### Contractors Involved

Siemens was selected to render EPC services for the solar PV power project.

Wuxi Suntech Power was selected as the supplier of the PV modules for the project. The company provided 168,720 modules each with 290W of nameplate capacity.

Siemens supplied its SINVERT PVS 2400 inverters to the project site.

Globeleq South Africa Management Services and Siemens were contracted to render operations & maintenance services for the project.

### About Genesis Eco-Energy

Genesis Eco-Energy (Genesis) is a renewable energy company that offers project development, and operation and

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management services. The company's services include bulk renewable energy project design, management and implementation, design, enterprise development and engineering services. It provides services in the areas of energy strategy, policy formulation, energy trading, financial services, land, and agriculture and rural development. Genesis works with land owners to identify projects based on information available from the wind resource mapping. It offers wind, solar PV, hydro, CSP, bioenergy and marine technologies. The company develops wind energy projects in Coastal provinces of South Africa. It partners with local communities, land owners, farming community and investors to source and develop new projects. Genesis is headquartered in Cape Town, South Africa.

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**Mainstream  
Renewable  
Power Ltd**

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**Globeleq South  
Africa  
Management  
Services Pty Ltd**

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**Genesis, Ltd.**

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**EDF Group**

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**Siemens AG**

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### **About Mainstream Renewable Power**

Mainstream Renewable Power Ltd (Mainstream) is the renewable energy developer. The company carries out the development, finance, construction, and operation of large-scale renewable energy plants. It also develops and builds onshore, and offshore wind and solar power plants.

Mainstream sold its projects to global utilities such as [EDF Group](#) and [Orsted](#); and infrastructure funds, pension funds, and global brands. It has partnership with governments, developers, communities and financiers. The company operates through its offices across Ireland, Vietnam, the Philippines, Canada, Egypt, Ghana, Senegal, the US, Chile and South Africa, among others. Mainstream is headquartered in Sandyford, Dublin, Ireland.

### **About Siemens**

Siemens AG (Siemens) is a technology company. Its operations span electrification, automation and digitalization fields. The company designs, develop and manufactures products, and installs complex systems and projects. It also provides a wide range of customized solutions for individual requirements. Siemens focuses on power generation and distribution, and intelligent infrastructure for buildings and distributed energy systems. It provides smart mobility solutions for rail and road transport, medical technology, and healthcare services. Siemens has research and development facilities, production plants, warehouses, and

sales offices across the world. It serves customers in various industries such as energy, healthcare, infrastructure, process and manufacturing, and others. Siemens is headquartered in Munich, Bavaria, Germany.

### Methodology

All power projects included in this report are drawn from GlobalData’s Power Intelligence Center. The information regarding the project parameters is sourced through secondary information sources such as electric utilities, equipment manufacturers, developers, project proponent’s – news, deals and financial reporting, regulatory body, associations, government planning reports and publications. Wherever needed the information is further validated through primary from various stakeholders across the power value chain and professionals from leading players within the power sector.

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