

## PV Renting Pilot Project – Atlantic Gold Guesthouse

54 Theresa Avenue, Camps Bay, Cape Town, Republic of South Africa

### maxx | solar energy PTY Ltd.

The maxx | solar energy group with headquarters in Thuringia, Germany provides its customers with all services related to photovoltaics. With maxx | solar energy PTY Ltd., the maxx group extended its presence into South Africa in 2011. The service range of maxx | solar energy PTY Ltd. includes training, wholesale and consulting. As the South African Premium Partner of the German PV system integrator IBC SOLAR, we stand for the highest quality standards in wholesale of photovoltaic technology. Our maxx-solar academy is Africa's Premier Training Institute on Solar Power. It was established in 2011 by the German Solar Energy Society DGS and the maxx group. Since 2011 hundreds of engineers, architects and craftsmen have been taking part in our trainings and many of them now work as certified maxx | team installers.

### ATLANTIC GOLD Guesthouse

Right up on the slopes of the famous Twelve Apostles Mountains, Atlantic Gold is a gem of a guesthouse with breathtaking sea views from most luxurious self catering rooms and suites. The owners of the guesthouse Alice and Gerald Zidek are dedicated to offer their guests not only a luxury but also an ecofriendly service. The first step towards green tourism was the installation of solar thermal collectors and two heat pumps for solar water heating. The use of solar power as main electricity source was planned as a second step. With the maxx | solar energy PTY Ltd. they found a reliable partner which could offer them quality PV design and products made in Germany. Furthermore, maxx introduced them the PV renting approach as one option to benefit from solar power without high investments or complicated financing programmes.

### German dena RES Project South Africa at the ATLANTIC GOLD Guesthouse

The lack of financing options is one of the main obstacles to the implementation of small-scale photovoltaic systems in South Africa. The German company maxx | solar & energie GmbH & Co. KG has experience with PV Renting projects in Germany. Thanks to the dena Renewable Energy Solutions Programme the maxx group was able to transfer the PV Renting approach to South Africa. With Centrafin maxx identified a company specialised in equipment renting and even offers with its "Financing Green Solutions" programme a tool to finance PV systems.

PV renting means, one entity invests in a PV system (system owner) and rents the system to a second entity (system operator). The system operator uses the electricity and pays a monthly rent to the system owner. Furthermore, the system owner gets the option to buy the system after 3–10 years (similar to car leasing).

The maxx group, Centrafin and the maxx | team installer RED Engineering jointly developed a package (PV system and financing) for the Atlantic Gold Guesthouse and thus allowed the installation of a 14 kWp pilot project in April 2016. The PV system will substitute expensive grid electricity, which costs the guesthouse 1.87 ZAR/kWh excl. VAT. The guesthouse will substitute approximately 23,400 kWh/year with solar power.



### Contact

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You need a maxx | team installer in your area?  
Please contact [info@maxx-energy.co.za](mailto:info@maxx-energy.co.za) and we will bring you in touch  
with one of our certified maxx | team installers.

# maxx | solar energy PTY Ltd.

## PV Renting Pilot Project – ATLANTIC GOLD, 14 kWp



### PV System

system type	Embedded Generation (SSEG) registered at City of Cape Town
PV generator capacity	14 kWp
spec. annual yield	1,520 kWh / kWp
performance ratio (PR)	93.5 %

### Power

total electricity consumption	35,000 kWh / year
Solar PV electricity generation	23,400 kWh / year
Solar PV electricity generation	1,000-2,900 kWh / month
CO <sub>2</sub> emissions avoided	up to 28 t / year

### Stakeholders

system owner	Centrafin PTY Ltd.
system operator	Atlantic Gold
material supplier	maxx solar energy PTY Ltd.
system installer	RED Engineering PTY Ltd. HH ROOFING PTY Ltd.
marketing campaign	German Energy Agency (dena)

### Finance by Centrafin



Centrafin offers a plan for investments into Solar Photovoltaic installations to qualifying applicants utilizing Operating Expenditure Budgets. The Centrafin Green Solutions Finance is especially appropriate for:

- Businesses which own their own properties with large roof space, tenants or predictable electricity requirements especially qualify:
- Hotels and large offices whose energy demand profile that aligns with the solar power generation profile

### PV Renting Approach

- Only certified installers
- 3-10 years of financing
- Annual escalation depends on total costs and renting period, no capex

The procedure:

- Clients register with Centrafin for credit assessment
- Rental agreement between Centrafin and client
- Centrafin pays the installer and rents the system to the client
- Rental rate and yearly escalation varies after costs and renting

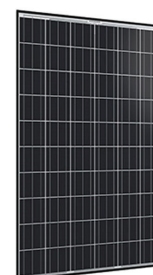
### Mounting System

IBC Aerofix flat roof  
mounting incl.:  
Base rails, rail connectors,  
support tops and bottoms  
wind plates, middle and end  
clamps and assembly jig



### Modules

66 Modules,  
Q.Cells G3 210W  
(2 PV arrays, North and  
West orientation, total PV  
generator surface 89 m<sup>2</sup>)



### Inverter

SolarEdge SE15K,  
with 33 P600 optimizers



Centrafin certified maxx I team installers:



More maxx I team installers are  
in the certification process.  
Contact us for the complete list.



The dena RES Project South Africa is part of the worldwide dena Renewable Energy Solutions Programme coordinated by Deutsche Energie-Agentur (dena) - the German Energy Agency - and co-financed by the German Federal Ministry for Economic Affairs and Energy (BMWi) within the German Energy Solutions Initiative.



Supported by:



Project lead:



on the basis of a decision  
by the German Bundestag