

Goldwyn Energy Saving Solutions.

BENEFITS

REDUCTION IN CARBON EMISSIONS BY DEPLOYING GOLDWYN SOLUTIONS

- ▣ QUALIFIED FOR CARBON CREDITS BY ERNST AND YOUNG
- ▣ LED IS BIO DEGRADABLE OPPOSED TO CFL's WHICH ARE POISONOUS WITH NO DISPOSAL SOLUTION
- ▣ SAVING ON LIGHTS UPTO 80%
- ▣ SAVING ON SOLAR GEYSERS 100%
- ▣ SAVING ON MAINTENANCE 75%
- ▣ JOB CREATION AND SKILLS TRANSFER BY LOCAL MANUFACTURING AND RETRO FITTING
- ▣ LED SOLAR SOLUTIONS 60% CHEAPER TO IMPLEMENT OPPOSED TO HPS .
- ▣ SEE ATTACHED LED SOLUTIONS FOR L.E.D

Solar Street Lights at Motor City

12 Watt Solar
Street Light
outperforming 75
Watt HPS.

2 x Goldwyn 12 Watt DC.
2 x 30 Watt Solar Panels.
1 x 105 AH battery.
1 x 6 AH charge
controller.
Results= Off the grid with
better light.

AC 32 Watt Goldwyn
Retro fit to Genlux
150 Watt.
Results=75% saving
with better light
levels. Maintenance
free.



Solar Street Lights at Motor City



Solar 32
Watt
effectively
replacing
150Watt
HPS

Retro Fitment on all Existing Fittings

High Mast from 400watt to 100 watt



Retro fitted Street Lights

AC/DC 36
Watt to
replace 150
Watt HPS.

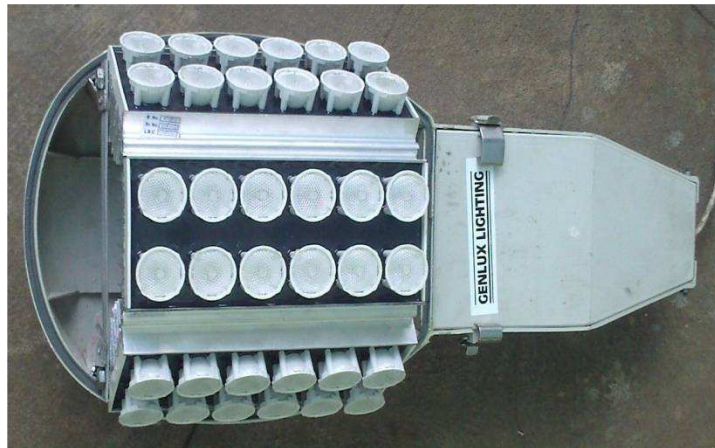


Philips 125
Watt HPS to
25Watt LED



Genlux 150 Watt
HPS to 32 Watt
AC/DC LED

Genlux 150 Watt HPS
to 32 Watt AC/DC
LED

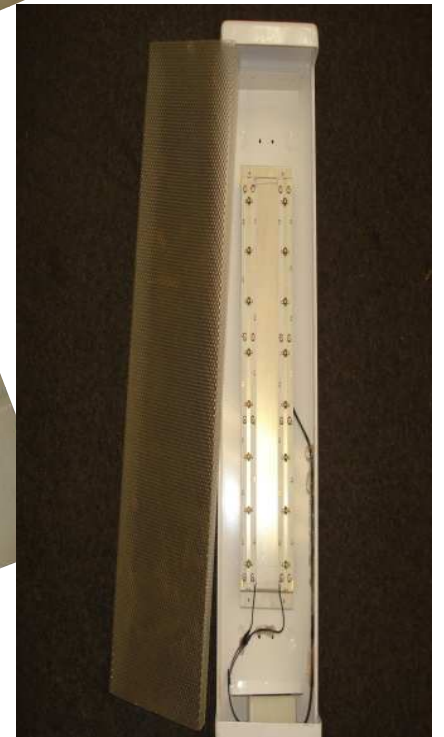


Retro Fitted Office Lights

CFL's
replaced
with LED



3 x 36Watt reduced
to 2 x 20 Watt LED



Solar Garden Lights

**Post Top 75
Watt CFL
reduced to 16
Watt LED**



Goldwyn RDP House



RDP Solar Solution at Motor City

RESULT= Better lighting than most urban houses.
Autonomy 3 days



RDP Solar Geyser at Motor city

Solar geyser
supplying RDP
house at 100
degrees.3 day
autonomy.



Safety Features

- SAFE LIGHT FOR YOUR FAMILY – NO FIRE HAZARD
- LIGHT FOR CHILDREN'S HOMEWORK
- GIVES YOUR FAMILY SECURITY AT NIGHT
- CHARGES YOUR CELLPHONE
- RUNS SMALL 12V APPLIANCES (Black & White TV or Radio)
- EASY INSTALLATION
- RUGGED DESIGN

FEATURES:

- LONG TIME BATTERY LIFE – INTELLIGENT BATTERY CHARGING
- BATTERY MONITOR DISPLAY
 - a. First LED, blue: Battery charging
 - b. Second LED, green: Battery full
 - c. Third LED, green: Battery half full
 - d. Fourth LED, red: Battery empty
(automatic shut down to increase battery life)
- OVERLOAD PROTECTION ON ALL OUTPUTS
- SECURITY BUZZER IF SOLAR PANEL IS DISCONNECTED
- INDIVIDUAL SWITCHES FOR ALL CIRCUITS
- LONG LIFE BATTERY POWER ON LIGHTING
- AUTOMATIC RESET IF BATTERY IS EMPTY
- HIGH EFFICIENCY POWER MANAGEMENT
- TO RUN COMPUTER AND 51cm TV or HIFI/RADIO
- HIGH SAFETY STANDARDS
- GERMAN TECHNOLOGY
- PROUDLY MANUFACTURED IN SOUTH AFRICA

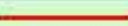




CALCULATION RDP HOUSE

Date: 9-Aug-09
 Customer:
 Company:
 Address:
 System Description: Solar Power Solution - RDP House

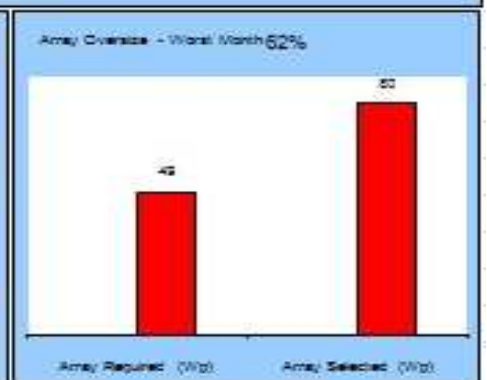
Prepared by: Carlos Rebelo
 Goldwyn SA
 South Africa
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 Fax: 2711 86 636 2288
 E-Mail: goldwynled@mweb.co

SYSTEM LOCATION DATA	
Country	South Africa
Location	Krugersdorp
Latitude (-ve = South)	-26
Longitude (+ve = East)	27
Elevation (Meters)	1,780
PSH (Max) Hours	6.99
PSH (Min) Hours	5.47
PSH Selected	5.45
Array Tilt Angle	10

Annual PSH - Tilted	2,363	Tilted PSH	
Horizontal	2,103	Horizontal PSH	
		Selected PSH	

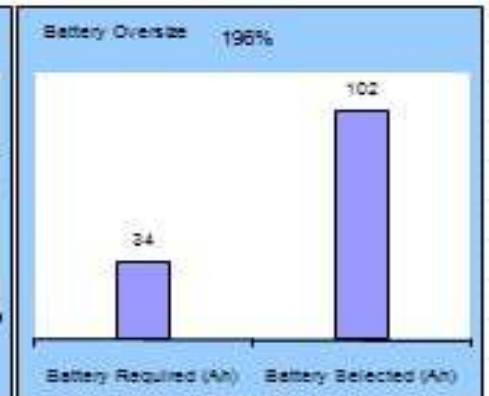
NOMINAL VOLTAGE	12			
DC-LOAD item	Quantity	Watts	Hours	Wh/Day
Lights	6	4	8	192
Lights	-	18	2	-
Arca -10graus	-	80	5.6	-
TV LCD 22" a 32"	-	25	3	-
Decoder TPA	-	22	3	-
-	-	-	-	-
		System Losses		40%
		DC Watt Hours / Day		269

AC-LOAD item	Quantity	Watts	Hours	Wh/Day
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SOLAR SYSTEM PERFORMANCE FOR RDP HOUSE AT MOTOR CITY

AC-LOAD item	Quantity	Watts	Hours	Wh/Day
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
System Losses				15%
AC Watt Hours / Day				0
Total Daily Watt Hours used by the system				269



SYSTEM SPECIFICATIONS			
Days Used per Week	7		
BATTERY		SOLAR	
Capacity (Amp Hours)	102	Array Peak Watts	80
Depth of Discharge	65%	Solar Module Peak (W)	80
Autonomy (Calculated)	3.0	Modules in Series	1
Block or Cell Voltage	12	Modules in Parallel	1
Batteries in Series	1		
Batteries in Parallel	1		
Number of Cells or Blocks	1	Number of Solar Modules	1

INVERTER		REGULATOR	
AC Load (Watts)	0	Solar Array (Amps)	4
		DC Load (Amps)	2

SYSTEM BUDGET COST INDICATION			
	Type	Unit Cost	Total ZAR
Solar Modules			
Structure per Module			
Battery			
Regulator			
Inverter			
Wiring -			
Installation -			
Delivery -			
Other -			
Other -			
Other -			
			ZAR

Solar Geyser commissioned by Free State Premier in Operation Hlasela.





First of 100
Street lights
commissioned
by Free State in
Parys



First of 5 High masts
in Free State.
8000 watt mast
reduced to 1600 watt
LED with more
coverage.



66 Watt Street lights in Heilbron



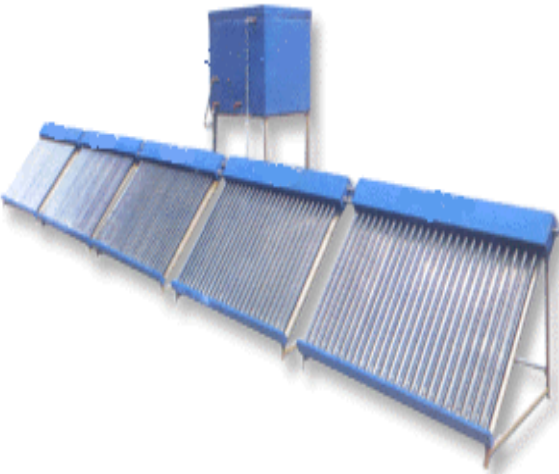
66Watt LED Street Light tested after 8 meter drop



Solar Installations in Mozambique by Goldwyn



Solar Geysers installed in Mozambique



18 Watt CFL replaced with 12 Watt LED in Angola



Goldwyn in Angola

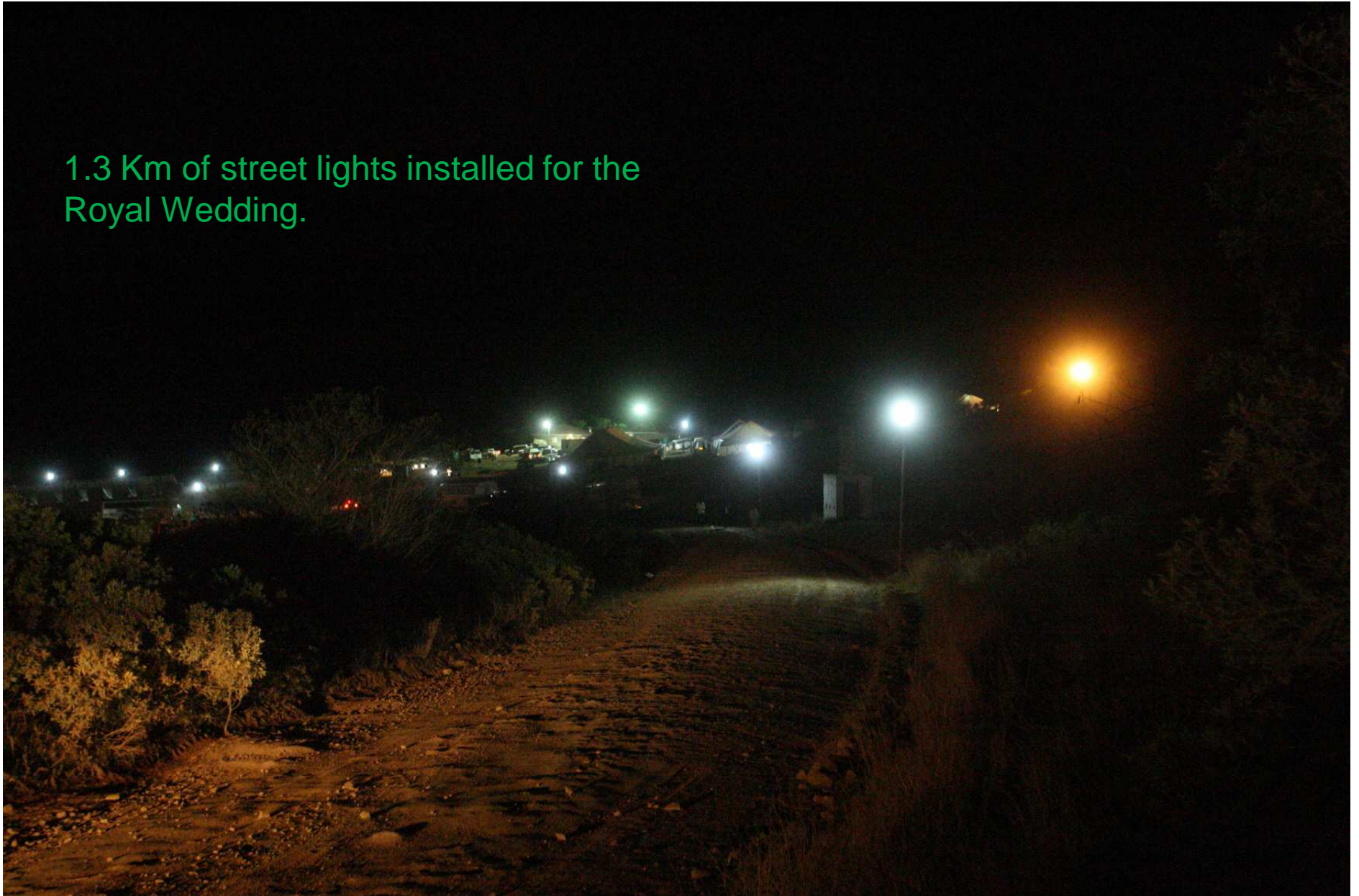


Goldwyn LED installed in Garden City JHB



Jozini Ngwavuma

1.3 Km of street lights installed for the Royal Wedding.



Jozini Ngwavuma

66 Watt Street Light giving a spread of 50 X 30 Meters



Jozini Ngwavuma



1500 Seat Stadium lit by 6 x 66
Watt Street lights run on a 5 Kva
Inverter .

Jozini Ngwavuma

Wedding Venue lit by
66 Watt Mid Bays.



GOLDWYN SOUTH AFRICA

26 MAIN REEF ROAD

LANGLAAGTE

JOHANNESBURG

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