

Output Capacity: 152KVA / 549KWh 230V, 50-60Hz

1. Client: X Comprehensive Secondary School, Oyi L.G.A, Anambra State, Nigeria

Contact Person: The Principal X Comprehensive Sec. School | Tel: 000000000 |
Email: xxxxxx@xxxxx.com

2. Proposed By: Suchnetcom Solar, Ikeja, Lagos State, Nigeria.

Contact Person: Engr. Steve Udechukwu | Tel: 0812343365, 08171968872
sudechukwu@suchnetcomsolar.com, suchnetcomsolar@gmail.com

Cover page

Sun King Solar Lantern



Model Pro: N5,800

**Gives light, and does
charge phone**



Model Classic: N3,800

**Gives light, but does not
charge phone**

There's special price
offer for distributors



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 - ✓ **Boys Hostel – 33.5 KVA / 125.4KWh**
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- **Return On Investment** 5.0 KW/25.3 KWh Solar Power System Versus 5.0 KW/20KWh Diesel Gen.
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Costs includes installation charges

- ❖ Solar Borehole SUMP Pumps
- ❖ Solar home electrification
- ❖ Customized Solar power systems (We design and installed to customer specification)

Note: - Cost may vary at time of contract signing

- Site was visited 21 March 2014



Suchnetcom Solar

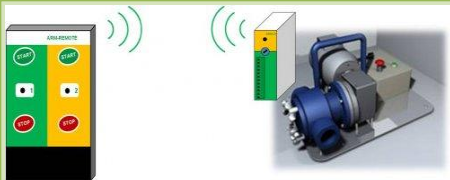
Products & Services:



Solar Design, build, Install, Maintenance,
Repair Services



Provides innovative solutions for data
transmission between machines



Provides custom solutions



Propagates eCommerce to all all
corners of Nigeria



Research & Development

About Suchnetcom

- **A Nigerian owned company**
- **Provides engineering services**
 - *Customized Solar power for Borehole pumps & home electrification*
 - Uninterrupted solar powered wireless data-link solutions
 - Customized solutions
 - Installation
 - Repair/maintenance
 - Research & development
- **Provides eCommerce services**
 - Online retail sales



All in a fully-integrated business model



Load Schedule for X School Facilities

=> Administrative Block - 7.5KVA/25.3KWh

2 Year Limited Warranty

Admin Block: 7.5KVA / 25.3KWh/230Vac Output

Item No	Appliance Name	Qty	Total Power	Run Time per Day (Hr)	Energy Consumption Per Day
A	Administrative Block				
	<u>Principal's Office (Principal's Secretary, Admin Staff, Conference Hall)</u>				
1	Light	46	1,840	6	11,040
2	Fan Ceiling, Wall Fan	27	1,620	5	8,100
3	Fan Standing (Power type)	2	240	4	960
4	TV	2	240	5	1,200
5	TV decoder	1	36	5	180
6	Fridge	2	277	8	2,213
7	Wall Sockets	8	800	4	3,200
8	Laptop	1	60	2	120
9	Internet Modem	2	50	24	1,200
10	Computer - Desktop	2	240	5	1,200
11	Printer	2	120	2	240
13	Projector	0	0	0	0
			7.5VA		25.3KWh

Cost	Panels	Battery	C. Controller	Inverter
NGN xxxx	50	10	1	7.5KVA

Load Schedule - Class Room Blocks - 22.5KVA/84.2KWh

2 Year Limited Warranty offer

Class Room Blocks : 22.5KVA / 84.2KWh/230V Output

Item No	Appliance Name	Qty	Total Power	Run Time per Day (Hr)	Energy Consumption Per Day
B	<u>Class Room Block A, B & C</u>				
	3 floor x 6 rooms				
1	Lights	324	12,960	5	64,800
2	Fan ceiling for class rooms	45	2,700	4	10,800
3	Sockets Wall Class rooms & Offices	117	5,850	3	17,550
			22.5KVA		84.2 KWh

Cost	Panels	Battery	C. Controller	Inverter
NGN xxx	165	33	3	20KVA + 2.5KVA



Load Schedule: Boys Hostel – 33.5 KVA / 125.4KWh

2 Year Limited Warranty offer

Load Schedule – Boys Hostels: 33.5KVA / 125.4KWh/230Vac Output

Item №	Appliance Name	Qty	Total Power (W)	Run Time per Day (Hr)	Energy Consumption Per Day (Wh)
C	<u>BOYS HOSTEL (12 Dormitories) - Block B1/1, B1/2, B1/3, B1/4; B1, B2, B3, B4</u>				
1	Lights	112	4,480	5	22,400
2	Lights (Boys hostel lavatory)	20	800	5	4,000
3	Fan wall	144	8,640	7	60,480
4	Sockets wall	72	14,400	3	43,200
5	TV	4	480	3	1,440
6	TV decoder	4	144	3	432
			33.5 KVA		125.4 KWh

Cost	Panels	Battery	C. Controller	Inverter
NGN xxx	245	49	4	33.5KVA

Load Schedule: Girls Hostels – 33.5 KVA / 125.4KWh

2 Year Limited Warranty

Load Schedule – Girls Hostel Blocks: 33.5KVA / 125.4KWh/230Vac Output

Item No	Appliance Name	Qty	Total Power (W)	Run Time per Day (Hr)	Energy Consumption Per Day (Wh)
D	<u>Girls HOSTEL (12 Dormitories) - Block G1/1, G1/2, G1/3, G1/4; G1, G2, G3, G4</u>				
1	Lights	112	4,480	5	22,400
2	Lights (Boys hostel lavatory)	20	800	5	4,000
3	Fan wall	144	8,640	7	60,480
4	Sockets wall	72	14,400	3	43,200
5	TV	4	480	3	1,440
6	TV decoder	4	144	3	432
			33.5 KVA		125.4 KWh

Cost	Panels	Battery	C. Controller	Inverter
NGN xxx	245	49	4	33.5KVA

Load Schedule – Women Staff Quarter – 13.5 KVA / 52.2KWh

2 Year Limited Warranty

Women Staff Quarter: 13.5KVA / 52.2KWh/230Vac Output

Item No	Appliance Name	Qty	Total Power (W)	Run Time per Day (Hr)	Energy Consumption Per Day (Wh)
E	<u>Staff Quarters - Women</u>				
	9 Rooms in a Block				
1	lights	22	880	7	6,160
2	fans	18	1,080	8	8,640
3	TV	18	2,160	3	6,480
4	TV decoder	18	648	3	1,944
5	Fridges	18	2,583	8	20,919
6	Sockets wall	18	3,600	4	14,400
			13.5KVA		52.2KWh

Cost	Panels	Battery	C. Controller	Inverter
NGN xxx	95	19	2	13.5KVA

Load Schedule – Men Staff Quarter – 12.5 KVA / 52.2KWh

2 Year Limited Warranty

Men Staff Quarter: 13.5KVA / 52.2KWh/230Vac Output

Item No	Appliance Name	Qty	Total Power	Run Time per Day (Hr)	Energy Consumption Per Day
E	<u>Staff Quarters - Men</u>				
	9 Rooms per Block of Building				
1	lights	22	880	7	6,160
2	fans	18	1,080	8	8,640
3	TV	18	2,160	3	6,480
4	TV decoder	18	648	3	1,944
5	Fridges	18	2,583	8	20,919
6	Sockets wall	18	3,600	4	14,400
			13.5KVA		52.2KWh

Cost	Panels	Battery	C.Contrl	Inveter
NGN xxx	95	19	2	13.5KVA



Load Schedule: Kitchen – 2.5 KVA / 11.0 KWh

2 Year Limited Warranty

Kitchen: 2.5 KVA / 11.0 KWh/230Vac Output

Item No	Appliance Name	Qty	Total Power	Run Time per Day (Hr)	Energy Consumption Per Day
G	<u>Kitchen</u>				
1	Lights	26	1,040	9	9,360
2	Fans	6	360	9	3,240
			2.5KVA		11 KWh

Cost	Panels	Battery	C. Controller	Inverter
NGN xxx	15	3	1	2.5KVA

2 Year Limited Warranty

Senior Staff Residence: 12.5KVA / 47.6KWh/230Vac Output

Item No	Appliance Name	Qty	Total Power	Run Time per Day (Hr)	Energy Consumption Per Day
H	Senior Staff Home - 12 Studio Rooms, Chapel, Lounge, Refectory, Corridor, bathrooms				
1	Lights	27	1,080	7	7,560
2	Fan ceiling/standing	32	1,920	7	13,440
3	Fan power	2	240	7	1,680
4	Fridge	13	1,768	8	14,144
5	Freezer	1	130	8	1,040
6	TV	2	240	6	1,440
7	Tv decoder	1	36	6	216
8	Internet modem	1	25	24	600
9	Water dispenser	1	522	3	1,565
10	Heater bathroom	4	1,200	6	7,200
11	Sockets	15	3,000	4	12,000
			12.5KVA		47.6KWh

Cost	Panels	Batts	C.Controller	Inveter
NGN xxx	90	18	2	12.5KWh

Load Schedule: Bakery – 5.0 KVA / 16.5 KWh

2 Year Limited Warranty

**Bakery:
5.0 KVA / 16.5KWh/230Vac Output**

Item No	Appliance Name	Qty	Total Power (W)	Run Time per Day (Hr)	Energy Consumption Per Day (Wh)
	<u>Bakery</u>				
1	Mixer motor	1	2,433	5	12,163
2	Freezer	5	860	8	6,882
			5.0 KVA		16.5 KWh

Cost	Panels	Battery	C. Controller	Inverter
NGN xxx	40	8	1	5KVA



Load Schedule – Borehole Sump Pump – 7.5 KVA / 25.3 KWh

2 Year Limited Warranty

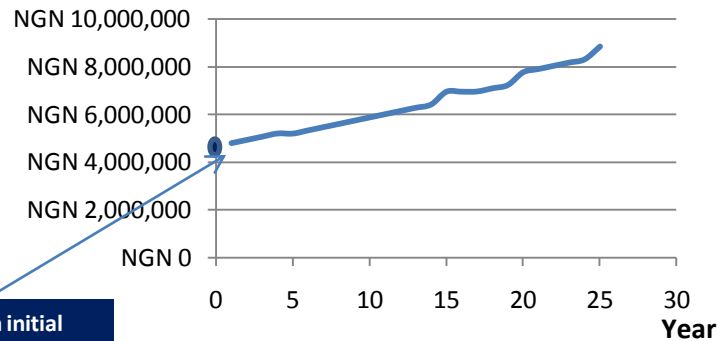
Borehole Pump: 7.5 KVA / 25.3 KWh / 230Vac Output

Item No	Appliance Name	Qty	Total Power	Run Time per Day (Hr)	Energy Consumption Per Day
	<u>Borehole Submersible Pump</u>				
1	Submersible pump	3	7.5KVA	3	25.3KWh

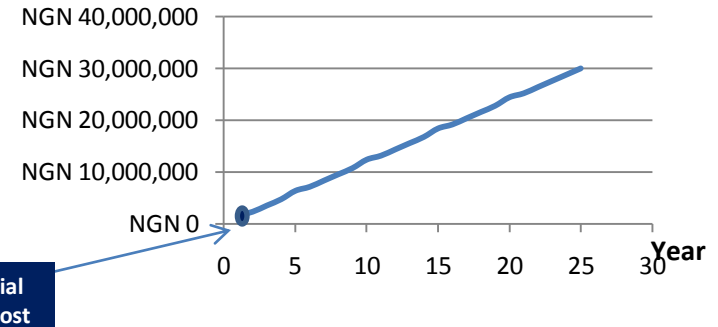
Cost	Panels	Battery	C. Controller	Inverter
NGN xxx	50	10	1	7.5KVA

5.0 KW/25.3 KWh Solar Power System Versus 5.0 KW/20KWh Diesel Gen.

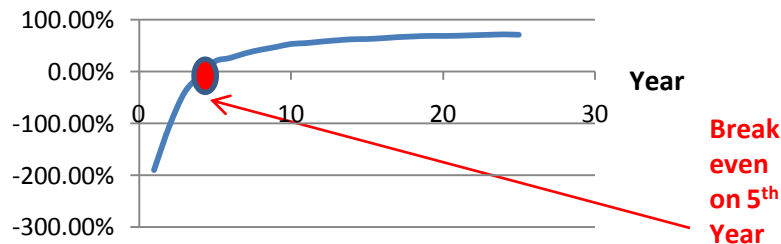
Solar System - 25 Yrs Equipment/Running Cost



Dies. Gen - 25 Yrs Equipment/Running Cost

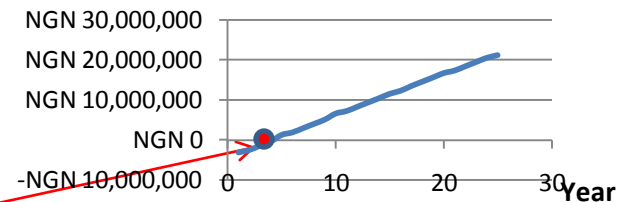


ROI (%) - Diesel Gen. versus Solar



Break even occurs 5 years of active running of the solar power system - With initial profit of **19.06%** and final profit of **70.49%** as against equivalent diesel generator .

ROI (Naira) - Diesel Gen. versus Solar



- ✓ Depreciation at **18%** rate per annum
- ✓ Battery is replaced every **5 years**
- ✓ Solar Panel cleaning cost of **NGN120,000** per annum
- ✓ Diesel Gen. for replacement every 5 years
- ✓ Daily running rate of diesel generator is **8 hrs per day**
- ✓ Quantity of petrol consumed per annum **9,225 liters**
- ✓ Running cost of diesel generator per annum **NGN1,199,286**
- ✓ Cost of quality **5KW** Diesel generator **NGN230,000**



Load Table - Solar Power Equivalence of 5.0 KW Diesel Generator

5KW / 25.3KWh/230Vac Output

Item No	Appliance Name	Qty	Total Power (VA)	Run Time per Day (Hr)	Energy Consumption Per Day (Wh)
A	Administrative Block				
	<u>Principal's Office (Principal's Secretary, Admin Staff, Conference Hall)</u>				
1	Light	46	1,840	6	11,040
2	Fan Ceiling, Wall Fan	27	1,620	5	8,100
3	Fan Standing (Power type)	2	240	4	960
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7	Wall Sockets	8	800	4	3,200
8	Laptop	1	60	2	120
9	Internet Modem	2	50	24	1,200
10	Computer - Desktop	2	240	5	1,200
11	Printer	2	120	2	240
13	Projector	0	0	0	0
			5.0KW		25.3KWh

Cost	System Actual Power Output
NGN 5,421,493	5.0 KW



Suchnetcom Solar

Our Contacts

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Facebook: suchnetcom solar

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Suchnetcom Catalogue of Images



Steve as Assistant Manager Solar
Department, **Simba Group Lagos** Nigeria.
Current position: Manager at Suchnetcom
Solar, Lagos

RAM
ENGINEERING &
TECHNOLOGY

RAM Technology Distribution Nig. Ltd

**Presents to you Biometric Finger Print Time & Attendance (BFPTA)
System ↓**



Presenter/Consultant : Engr. Steve Udechukwu (BEng-Hons Digital Electronics, Computing & Communications – Brighton Uni, U.K.) / for Ram Tech. Dist. Ltd, Nigeria. Tel: 08033100976.

Steve as a Technical Supports Engineer at **RF Solutions Ltd, UK** a Leading Radio Remote Control & Modem Producer



Steve as PC Engineer at **C-Virtual Ltd, UK**



Steve in the Test Laboratory of **KIRCHNER SOLAR GROUP, GERMANY**

Working on a 2.4KVA Integrated Solar Power Pack