



VOLAB ENERGY AND SYSTEMS LIMITED RC1571266

Suite A52, Prima Tek Plaza Egbeda Lagos

Phone: 08080944447, 08076226707

Email : volabenergysystems@gmail.com

Company Profile

ABOUT US

Volab Energy and Systems Limited is a subsidiary of **Rehoboth Systems Limited** which is wholly indigenous company that majors in the supply of IT Power Infrastructure, & Power Management solutions to diverse sectors of the economy.

We have developed competencies and strategic relationships with Original Equipment Manufacturers such as Eaton, Makelsan, Schneider and other OEM. Our key brand product is the **Uninterrupted Power Supply (UPS)** that can handle special building and industrial applications e.g UPS support for regenerative drive lifts.

We are committed to making energy safe, reliable, efficient, productive and green. Regardless of project type or size, our project/operations team would bring to bear a high level of professionalism and deliver projects safely and on-time.

As an organization that prioritizes the interests of its stakeholders, we pride ourselves in the quality of services we provide our clients.

OUR EDGE

- Efficient Power, for Building and Data Centre solutions:
 - ✓ In partnership with the world leader in power solutions - Makelsan, Eaton, Schneider
 - ✓ Wide range of solutions available for clients at every level.
- Best Prices:
 - ✓ As a Value added partner with OEM's, we offer best prices to our clients with no intermediary costs.
- Expediting Services:
 - ✓ We expedite our clients orders with OEM's as top priority, thereby offering on time delivery services.
- Experienced Technical Staff
 - ✓ Our technical staff have over 25 years experience in the industry

OUR EDGE

- In House Logistics team

- ✓ We have an in-house logistics team which facilitates prompt shipping and delivery of needed equipment by our clients. This ensures a shorter down time for clients where equipment change is necessary.

- Technology

- ✓ Through our OEM Partnerships, we offer the latest cutting edge power technology for our IT solutions.

- Dedicated Employees

- ✓ Account Managers
- ✓ Technical Staff
- ✓ Logistics/Shipping staff

OUR EDGE

- SERVICE BACK-UP

- We have access to all necessary spare parts and tools from OEM to support our brand of UPS. Our **maintenance agreement** is tailored to suit the needs of our client's and covers: routine checks, preventive and corrective maintenance as well as close monitoring of the performance of the equipments.
- Our response time to calls meets the industry standards.
- Our Service Portfolio:
 - Conceptual Design (Pre Sale Consulting)
 - FAT acceptance Test (if required)
 - Startup and Commissioning
 - Warranty Support
 - Post Warranty Supports (Remedial and Preventive Support Services)

OUR KEY PRODUCTS

- **We are** authorized to transact all classes of sales and supply all ranges of IT Power and Data Center Products and Solutions offering from EATON, Makelsan, Schneider and other OEM:
 - ✓ Modular and Scalable UPS from 0.5KVA to 6000KVA
 - ✓ Data Centre Products (Power, Cooling, Access Control and Environmental Monitoring System, Raised Floors and Racks)
 - ✓ Containerized Data Centre
 - ✓ Data Centre Monitoring and Management (Netboz, DCIM Software, StruXureware and sensors)
 - ✓ Building Solutions: BMS, UPS, Raised Floors, Technical Cooling, Chillers
 - ✓ SCADA Systems and PLC

OUR KEY PRODUCTS cont'd

- Electric Transformers
- Electrical Panels and distribution panels
- Electric Surge Arrestor
- Energy Management and Monitoring Solutions
- Building Management Systems
- Raised Floors, Chillers and Technical Cooling
- In-row and Perimeter/Room Cooling Solutions
- Power Distribution Panels
- Inverter, Solar and renewable energy solutions
- UPS and Inverter Batteries

SUPPORT CAPABILITIES

Volab Energy and Systems Limited in partnership with OEM, **provides excellent backup services** throughout the products' life span. These include **warranty** in the early life of the equipment and **after-sales maintenance services** based on a comprehensive maintenance agreement with the client.

We have **capable engineers** carrying out support services on our various products. We can install and maintain the equipment to your optimum satisfaction and ensure that desired standards are met. We have a standard and well-equipped workshop.

MAINTENANCE & SUPPORT SERVICES

We operate a **comprehensive after-warranty maintenance service**. Under this scheme, at the payment of an agreed premium, we provide preventive and corrective maintenance to ensure normal and smooth operation of your system.

In the case of an extended fault, replacement machines can be provided pending the resolution of a faulty unit, if the unit was supplied and installed by Volab.

WARRANTY & SUPPORT SERVICES

Applicable services during & after product warranty include:

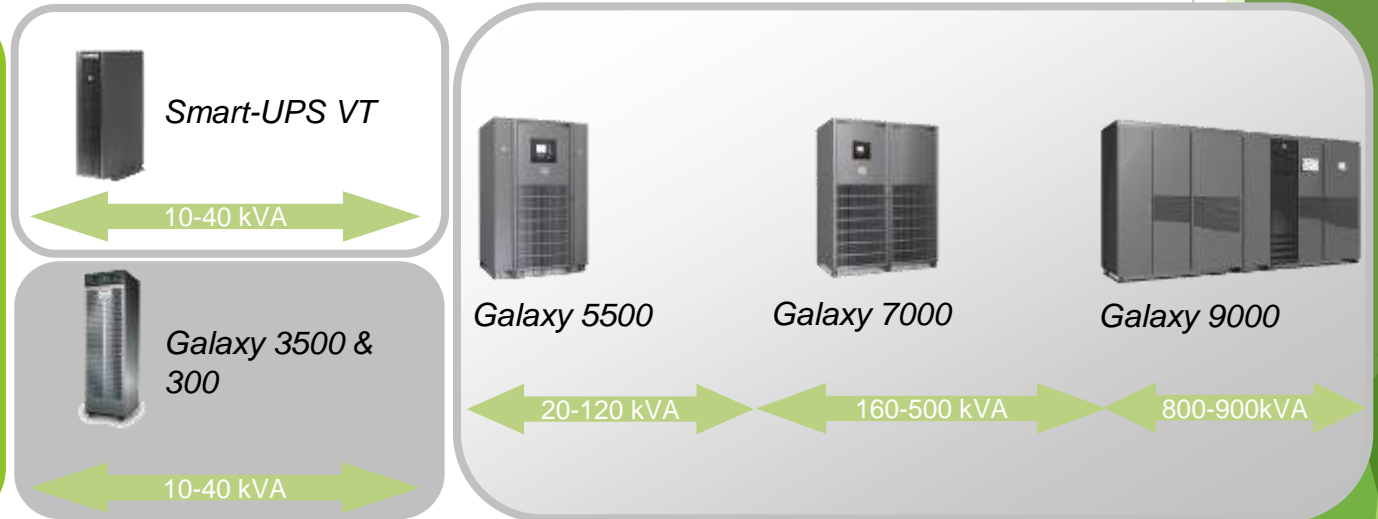
- Quarterly preventive maintenance at pre-advised dates and times.
- Response to fault calls irrespective of quarterly maintenance schedules.
- All warranty services arising from normal course of usage are free of charge.
- At the expiration of the warranty, a comprehensive maintenance contract is proposed and executed.

3-Phase UPS Product Families (EMEA)

Performance Range



Adaptable Range



10kVA

40kVA

200kVA

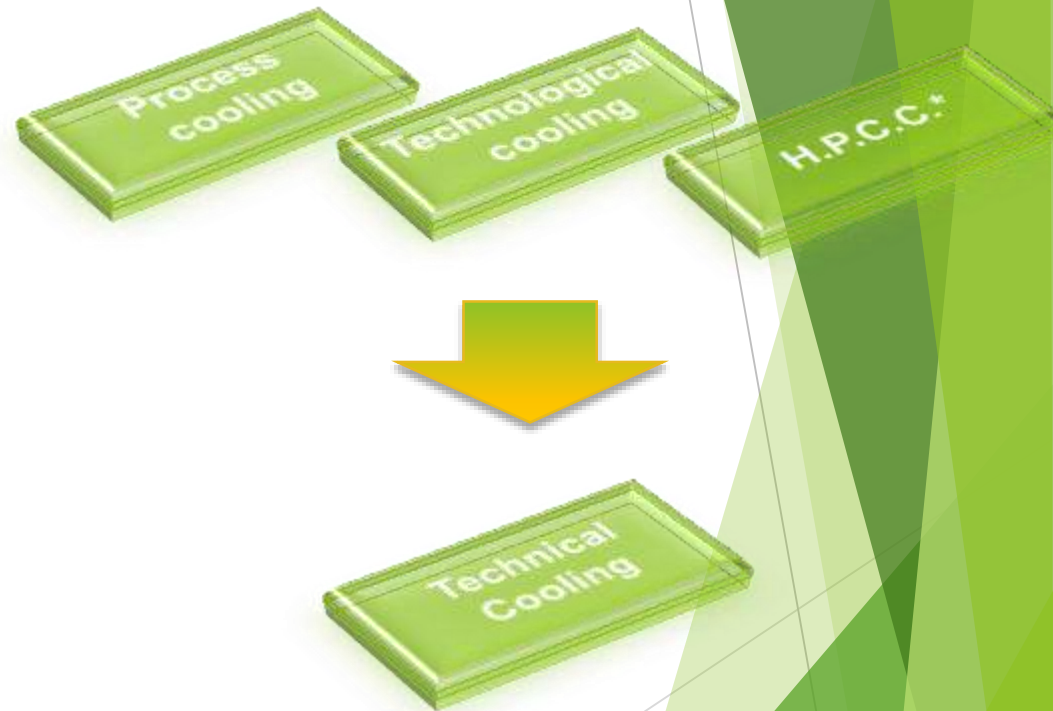
800+kVA

Technical cooling

Uniflair chiller solution

Top technical level chillers for technical applications

- Energy efficiency
- Absolute reliability
- Flexible solutions
- Complete Integration
- High precision water temperature control



*High precision comfort cooling

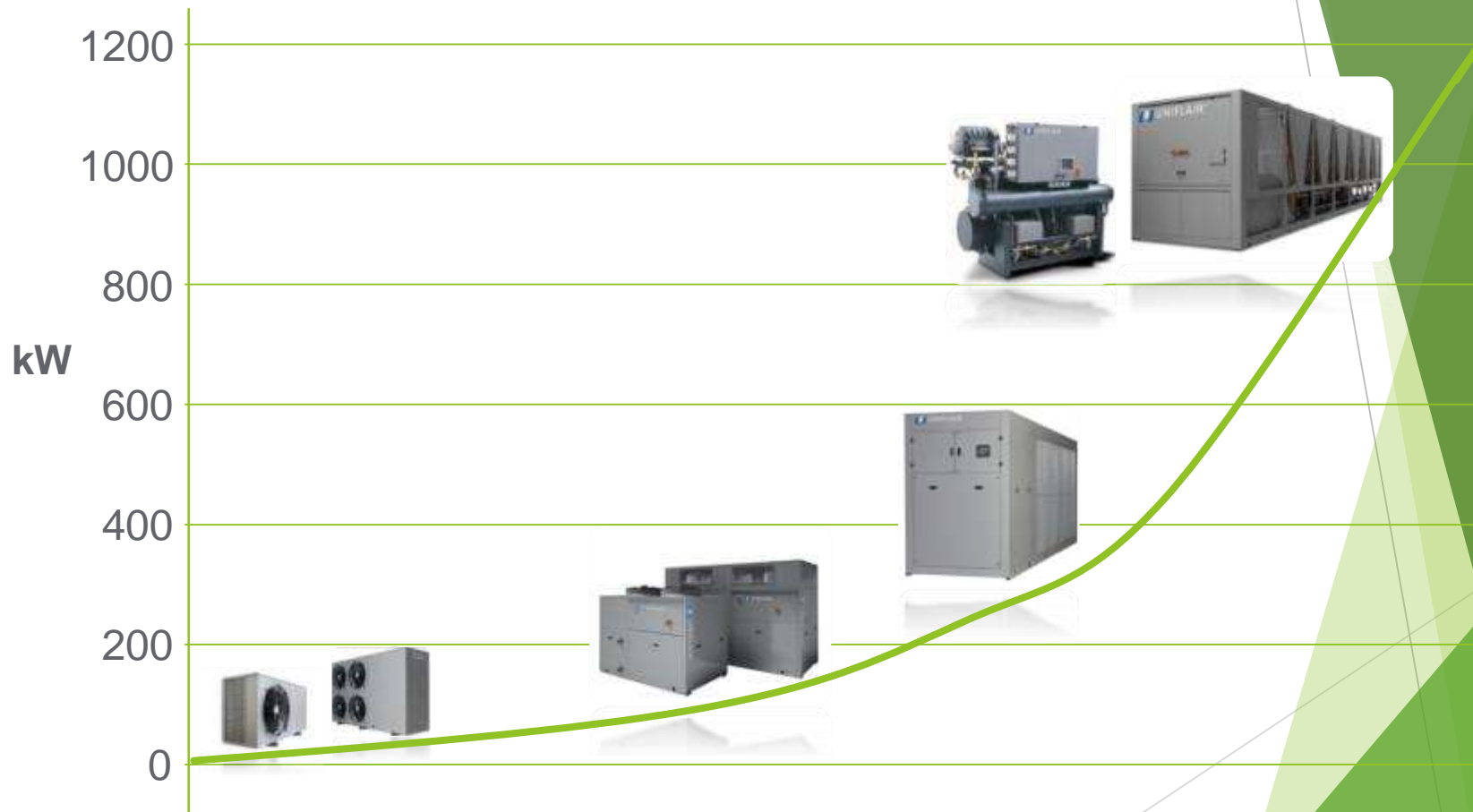
Uniflair Cooling Solutions

- Perimeter Cooling Units -

- Precision air conditioning for Data Center and IT rooms
- Precision air conditioning for telecommunications
- Technical rooms & Laboratories
- High density cooling solutions



Product Range



Cooling Solutions

1. Close Control perimetral Cooling

Amico, Leonardo and Leonardo Max

Air cooled, water cooled, chilled water, twin coil and energy saving

2. Technical Cooling

Water chillers – Air cooled, water cooled and condenserless

Free Cooling Operation

3. Complete Cooling Offer and Energy Efficient Solution

Room, Row, Rack Cooling, Chillers and Heat Rejection

Intelligent Control and Supervision

MODULAR ACCESS FLOOR

Aesthetic joins functionality!

- Panel (factory assembly)

- finishing
- support core
- backing
- perimetral edge

- Structure (site installation)

- pedestal
- head gasket
- stringer



The right solutions for our target segments

- ▶ **Data Centre**
- ▶ **Technical spaces**
 - ▶ *Control Room*
 - ▶ *Switchboard room*
- ▶ **Offices**
- ▶ **Civil constructions**
 - ▶ Retail
 - ▶ Hotel
 - ▶ Healthcare
- ▶ **Marine**



Office Offer

- Canalis KDP: 20 A flexible busbar trunking -

- Used for distribution

- of lighting when light fittings are supported by the building structure,
- of power sockets

- Installed in suspended ceilings and elevated floors

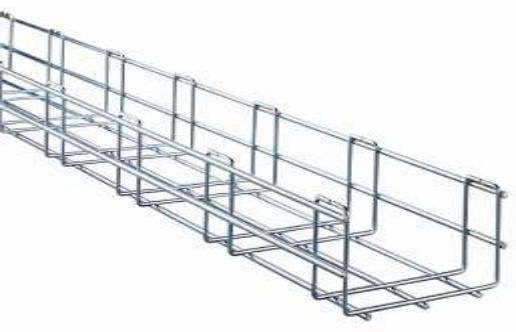
- Tap-off centre-distances correspond to building construction standards

- Prefabricated cords to supply a number of light fittings from a single connector

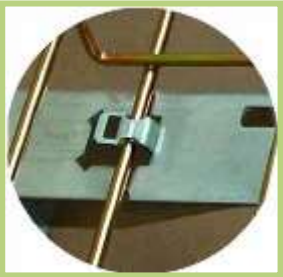
- Degree of protection: IP55



Office Offer- Performa: cable trays for indoor -



- Used for distribution:
 - Of power cables
 - Of it cables
- Installed in suspended ceilings and elevated floors
- Galvanized or dichromate steel



Office Offer- Optiline: wiring devices -



Civil Construction Offer

- The aesthetic joins the functionalities-

- ▶ Technology and cabling with **no aesthetic compromise**
- ▶ All the **best finishing** surfaces
- ▶ **Tailored products** for **unique** artistic buildings
- ▶ **Feasibility** studies and **Test** reports for all materials



LOW VOLTAGE PRODUCT

MCCB, MCB and RCCB





Circuit breakers and switch-disconnectors

> page A



- Ratings:
 - Masterpact NT 630 to 1600 A
 - Masterpact NW 800 to 6300 A.
- Circuit breakers type N1, H1, H2, H3, L1.
- Switch-disconnectors type NA, HA, HF, HH.
- 3 or 4 poles.
- Fixed or drawout versions.
- Option with neutral on the right.
- Protection derating.

Smart Panels

Enerlin'X



Ethernet-ready Smart Panels

Ethernet-ready Smart Panels enable electrical distribution control and expertise. 'Protect' - 'Measure' - 'Connect' are the 3 pillars of their technology.



4- Act

3- Connect

Give a voice to the panel

Safe Ethernet network data transmission is now part of the intrinsic design of protection and metering devices

2- Measure

Keeping a close eye on energy flows

The switchboard plays a key role in capturing building-related data, by gathering the critical protection and metering components.

1- Protect

Electrical protection is at the core of Smart Panel

Reliable and high-performance technology is present in every breaker and every residual current device.



INTELLIGENT LIGHTING SOLUTIONS

SUPER SOLAR
ALL IN ONE STREET LIGHT

PATENTED PRODUCT



Why do we need 'Intelligent lighting system'?

and 6% of energy used

• minimize
• remotely
• appliances.
• comfort and

• maximizing natural
lighting.

• right amount of

Methods of intelligent lighting

- **Daylight Dimming**

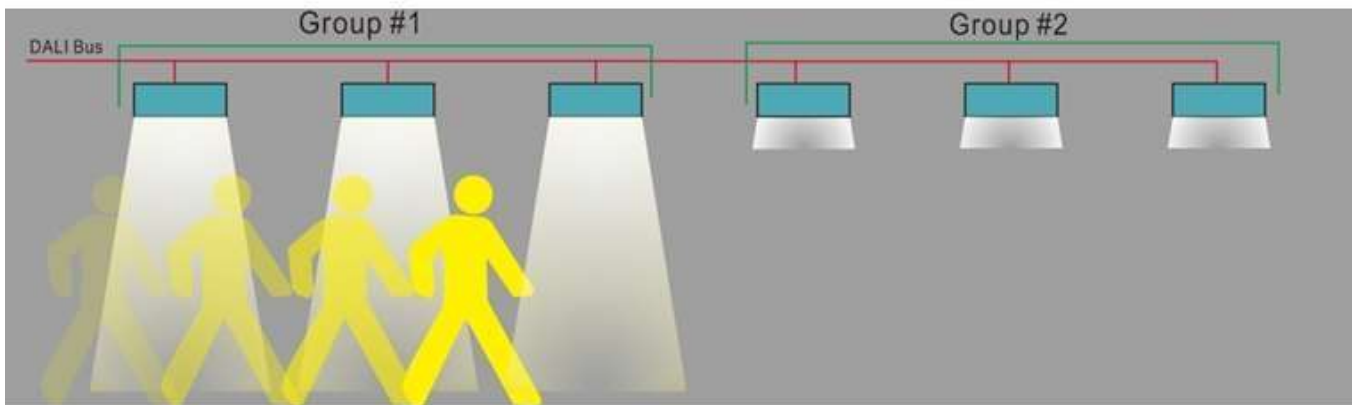
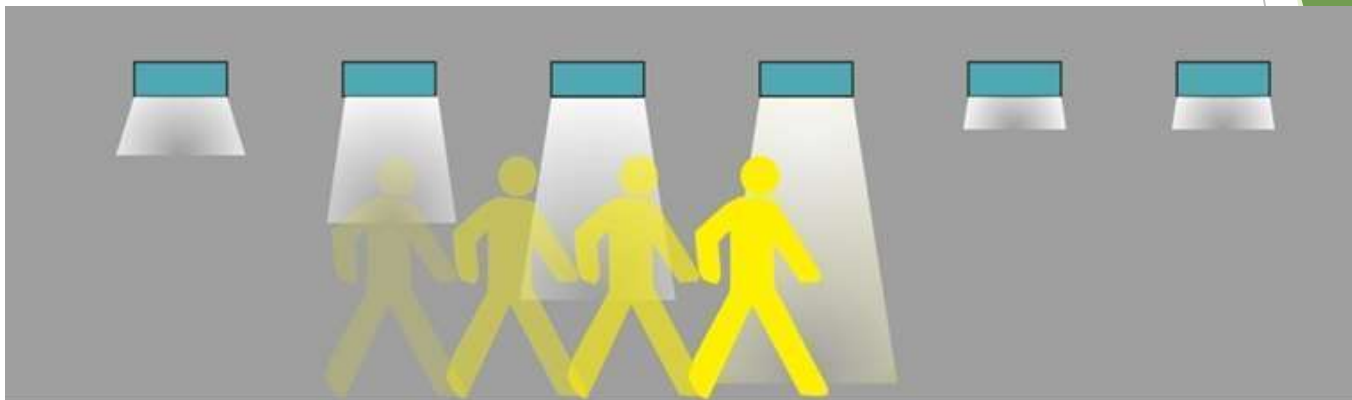


Methods of intelligent lighting

- **Occupancy sensors**

Applications

be



Applications



Applications

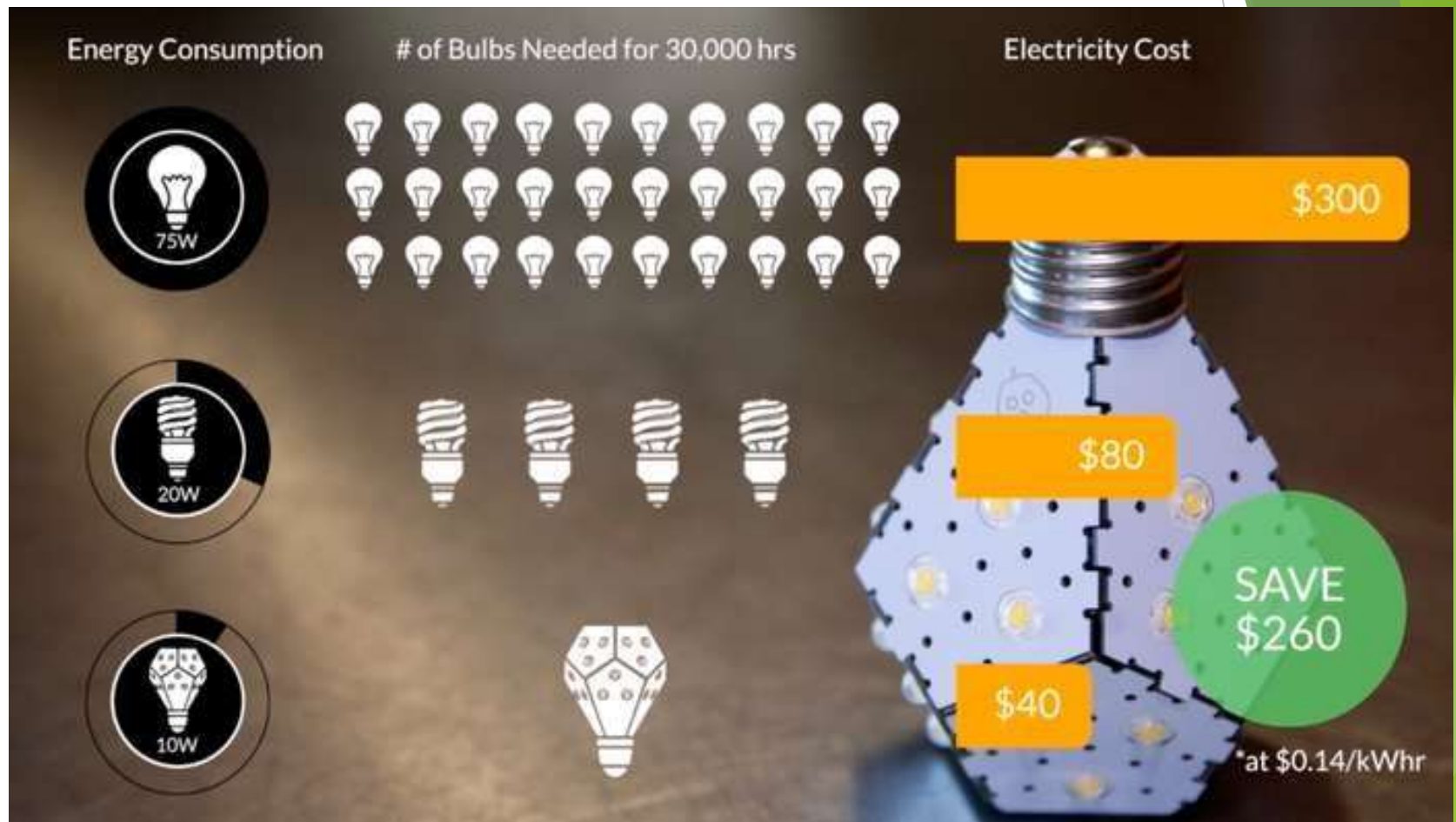




Applications

For every
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en you

World's most energy efficient light bulb.



The background of the slide features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

Advantages of intelligent lighting

Disadvantage of intelligent lighting





High Efficient Monocrystalline Solar Panel

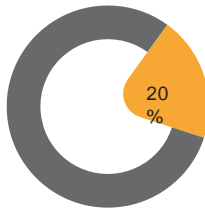
High efficient monocrystalline solar panel is adopted as SBMSolarTech A series solar lights power source. Its 20% efficiency is much higher than normal monocrystalline (17-18%) or polycrystalline silicon solar panel.



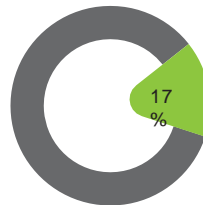
Monocrystalline silicon solar cell



Polycrystalline silicon solar cell



SBM-mono-crystalline transfer efficiency



Standard mono-crystalline transfer efficiency

25 years lifespan.





Ultra-strong Aluminum Frame Structure

Our integrated solar street light uses aluminum frame, which is light, strong and corrosion resistant. It reaches IP65 protection grade and IK08 wind resistance rating, effectively isolating humidity, dust, heat invasion and strong load of wind, combining with stainless steel bolt and iron bracket, making it easy to overcome the challenges of harsh outdoor environments.

Frame Details



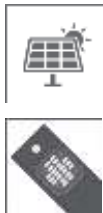
Brackets

The support method is variable with the model of the lights.



Stainless Steel Bolts





SSL-A 1

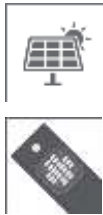
BM NewTech Co., Ltd.



Specification	Power	Solar Panel	LifePO4 Battery	Product Size
SSL-A1-30W	30W	50W	27AH	820*385*180mm
SSL-A1-40W	40W	65W	28AH	960*385*180mm
SSL-A1-50W	50W	80W	36AH	1190*385*180mm
SSL-A1-60W	60W	80W	42AH	1190*385*180mm
SSL-A1-80W	80W	100W	57AH	1630*385*55mm
SSL-A1-100W	100W	140W	63AH	1950*385*55mm
SSL-A1-120W	120W	140W	72AH	1950*385*55mm

SSL-A 2

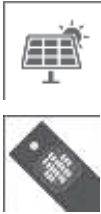
SBM NewTech Co., Ltd.



Specification	Power	Solar Panel	Lithium Battery	Product Size
SSL-A2-20W	20W	12W	6AH	530*235*150mm
SSL-A2-40W	40W	25W	12AH	840*235*150mm
SSL-A2-50W	50W	35W	21AH	1100*235*150mm
SSL-A2-80W	80W	60W	30AH	1630*435*150mm
SSL-A2-100W	100W	80W	40AH	2000*435*150mm

SSL-A 3

SBM NewTech Co., Ltd.



Specification	Power	Solar Panel	LifePO4 Battery	Product Size
SSL-A3-20W(project design)	20W	30W	12AH	630*325*45mm
SSL-A3-30W	30W	45W	21AH	880*330*140mm
SSL-A3-40W	40W	60W	27AH	1130*330*140mm
SSL-A3-50W	50W	60W	30AH	1130*330*140mm
SSL-A3-60W	60W	80W	36AH	1130*458*140mm
SSL-A3-80W	80W	100W	42AH	1130*458*140mm
SSL-A3-100W	100W	120W	55AH	1130*590*140mm
SSL-A3-120W	120W	140W	63AH	1830*388*45mm

First Access: the



Communal Solar lighting with Pay As You Go basics electricity services



Basics electricity kit



Mobile Solar Led Lights



Street Lighting GSM and private lighting plus services Light up the communities and provide sustainable and affordable basics electricity services :

- Lights
- Entertainment /information
- Mobile and small appliances charging.

Ease the payment: 1 unique fee per day of use, with Pay As You Go, mobile service.

UP TO 8 HOUSEHOLD
CAN BE CONNECTED



Premium access: SMEs Solution kits



Cooling kit



Water Pump System



Water Purification System



School Projector kit



Entertainment kit



Oil press kit



Flour kit

CONTACT

E-mail: Babafemi Emmanuel
lovevineworld@gmail.com

Mobile: +234 80 809 44447

**Contact Address : Suite A52 Primatek Shopping Complex
Egbeda - Alimosho
Lagos - Nigeria**

The background features abstract geometric shapes in various shades of green and blue. A prominent green rectangle is centered horizontally, containing the text "Thank you !". The overall design is modern and clean.

Thank you !