

ALTSA leads with LED

Cutting-edge LED lighting and electrical solutions for Africa.

- ALTSA is a leading industrial LED Lighting Solutions provider in Africa, as well as the largest lighting replacement company in Africa.
- ALTSA is registered in eight countries on the African continent: South Africa (Head office), Nigeria, Tanzania, Democratic Republic of Congo, Uganda, Kenya and Mozambique, Botswana, Ghana (agency).
- Across oceans ALTSA is registered in Chile, Australia, and Saudi to follow.
- Since 2011, ALTSA has grown significantly throughout Africa within its own network as well as through agency networks.
- ALTSA currently employs 150+ people internationally.
- ALTSA distributes its own premium range of LED lamps and luminaires, assembled in South Africa, to regional offices both nationally and internationally. ALTSA also distributes leading lighting brands internationally.

We transform the way energy is consumed by providing sustainable, environmentally friendly lighting solutions to benefit people, improve communities and impact positively on society as a whole.

We strive to be the leading supplier of groundbreaking LED lighting solutions, cutting-edge technology.

CUSTOMER ORIENTATED

ALTSA staff are dedicated to go the extra mile in building long-term relationships while helping customers feel good in their environments, with compliant lighting solutions and a profitable return on investment (ROI).

We partner with our customers on their journey to sustainable energy.



OUR VALUES

INTEGRITY:

We are honest, fair and demonstrate respect to our customers and colleagues.

ACCOUNTABILITY:

We follow through with what we say and hold ourselves to the highest standards.

HARD WORK:

We deliver outstanding results through our culture of exceptional service.

TEAM WORK:

We support one another to deliver results for our customers and our company.

INNOVATION:

We seek creative and innovative ways to solve our customers' challenges.







BBBEE Rating

We are a proudly South African, certified Level 1 Broad Base Black Economic Empowerment Contributor.

ALTSA does major upliftment throughout Africa.

CERTIFIED LEVEL 1

COMMUNITY DEVELOPMENT

EMPOWERING PEOPLE



ALTSA 5-Year Guarantee

We take immense pride in our ISO9001 national and internationally certified product range. We offer our customer a 5-year guarantee with an option to extend to 10 years.

Compliance

ALTSA ensures compliant lux levels over the full warranty period.

Product Range

ALTSA offers Indoor, outdoor and speciality lighting solutions that are ideally suitable for mining and industrial sites - especially areas that require robust, hard-wearing and explosion-proof luminaires.

ALTSA takes pride in distributing a locally assembled range of 190+ lamps and luminaries:

- Long life -up to 100,000 hrs.
- High efficiency up to 200lm/W.
- Compact, High-quality Profile Designs.
- Wide Operating Temperature Range -50° C to +55° C and up to 80° C on thermal resilient models.
- Easy Installation and low maintenance.
- Manufactured to withstand high, consistent volumes of dust and moist offering IP ratings of up to IP68.
- High electrical and mechanical specifications.
- All products carry a range of SANS and IEC certifications.
- Our EX range (Zone 0, 1, 2 and Zone 21, 22) carries IECEx certification.
- All products have battery backup and sensor options.

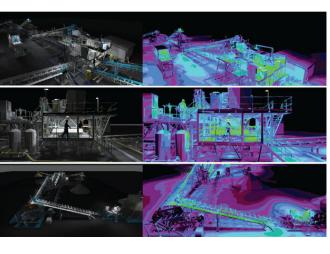
Lighting Proposal Summary

ALTSA Services

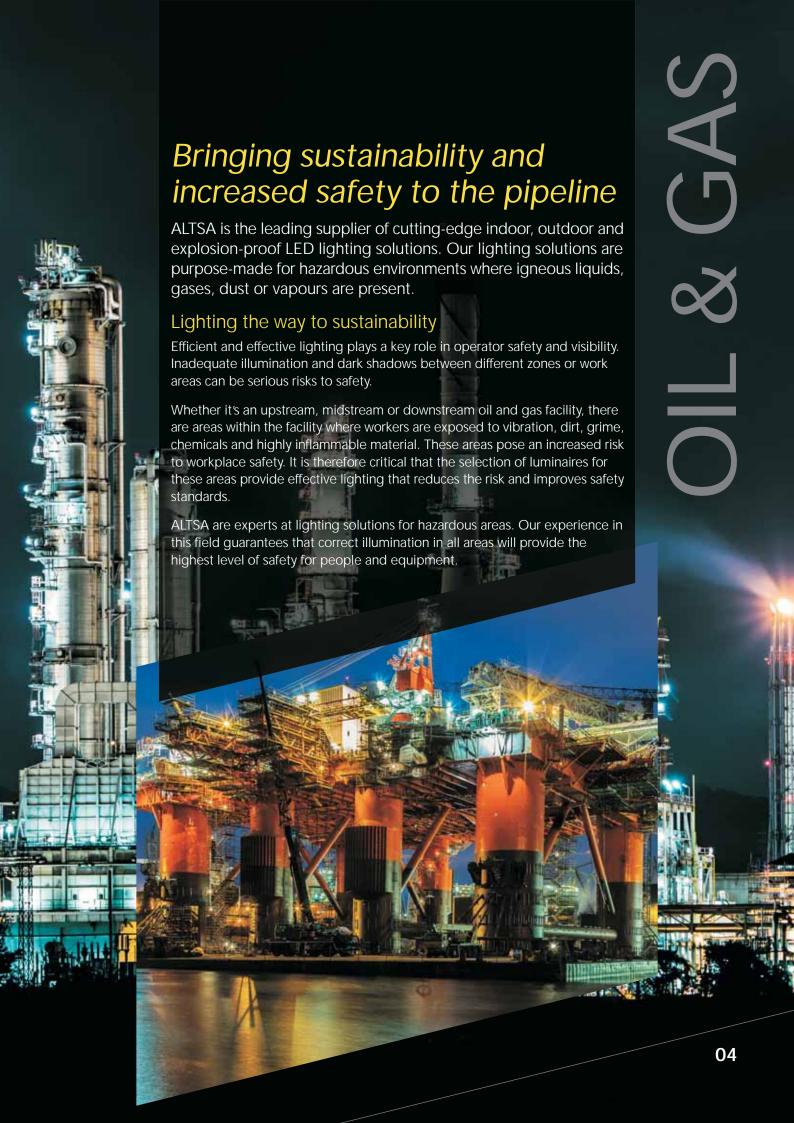
- On mine consultation.
- Lighting assessments and audits.
- Lighting proposals / ROI .
- Lighting designs.
- Replacement projects.
- Energy efficiency and optimization calculation.
- Eskom demand side management.

Maintenance Saving				
Maintenance Rate (Annual % of Initial Cost)	20%			
Annual Saving on Maintenance	R 1,902,600			
Financial				
Total Supply Cost	R 11,901,705			
Total Installation Cost	R 1,124,230			
Total Installed Cost	R 13,169,935			
Cost per kW	R 28.76			
Prelimanary & General Cost	R 658,497			
Contingency	R 395,098			
Crushing & Disposal	R 127,078			
High Lift Equipment	R 163,500			
Total Project Cost	R 14,350,608			
Potential Eskom DSM Subsidy	R 1,347,898			
Potential Eskom 12L Subsidy	R 469,292			
Total Project Cost Less DSM Subsidy	R 12,533,417			
Monthly Electricity Saving	R 659,347			
Monthly Financial + Maintenance Saving	R817,897			
Payback Period (Months)	15.3			
Net Monthly Cashflow Position for 5 yr rental deal	R 864,293			
Environmental Impacts				
Annual Savings of SO ₂ (Tons)	33.5			
Annual Savings of NOx (Tons)	17.7			
Annual Savings of CO₂ (Tons)	4,186			

Lighting Design Simulation







Applications

- 1 HAZARDOUS AREAS
- 2 EXTERIOR FUNCTIONAL
- 3 INTERIOR FUNCTIONAL
- 4 PLANT AND EQUIPMENT
 - Winder house.
 - Processing plants.
 - Storage facilities.
- 5 TOWERS
- 6 PARKING AND PATHWAYS
- 7 SECURITY
- 8 ROADWAY
- 9 VEHICLE LIGHTING
- 10 WAREHOUSES
- 11 CONVEYOR

Ideal Products

Highbays

Floodlights and Highmasts

Bulkheads

Streetlights

EX Linear

EX Floodlights & Vapour Proof

Bulkheads & Vapour Proof

EX Streetlights

Conveyor Lighting

Solar Streetlights

Solar Floodlights



Hard-working and hard-wearing lighting

Reliability

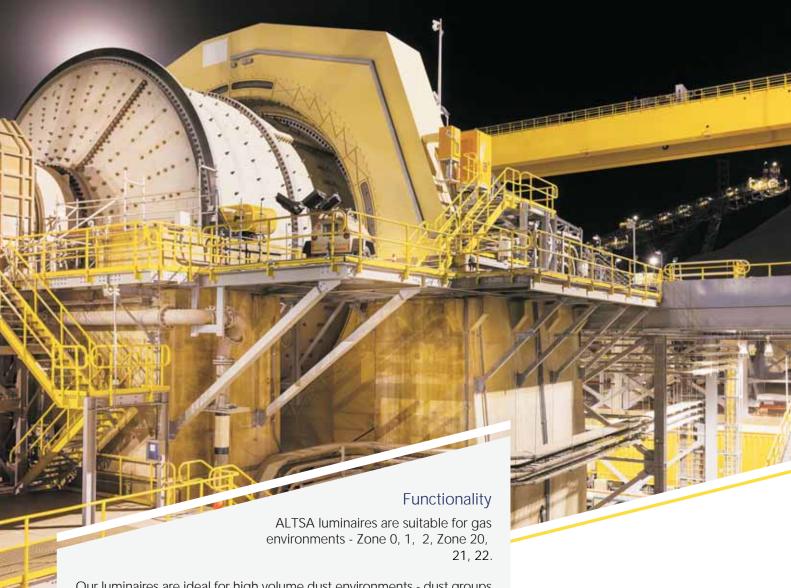
ALTSA's luminaires have optimal thermal management that allows for a longer lifespan than the metal-halide/fluorescents traditionally used in the oil and gas sector. Our indoor and outdoor LEDs have a lifespan of up to 100,000 hours and are backed up by our 5 year guarantee. Given the low failure rate of our electrical components, ALTSA's LEDs are built to last.

The LED chipsets and drivers cater for high energy efficiency. This means that ALTSA luminaires require little or no maintenance and will continue to provide excellent quality of light for the duration of their lifespan.

Durability

ALTSA luminaires are engineered from high quality materials. This guarantees their suitability for each application in zone-rated areas. The robust design and high impact resistant tolerance (ranging from IK08 to IK10) means that our luminaires can handle any knock that comes with hazardous environments. Each luminaire is coated with an epoxy powder, making them exceptionally resistant to corrosion and abrasion.





Our luminaires are ideal for high volume dust environments - dust groups include IIIC, IIIB and IIIA zones.

ALTSA's range of luminaires can withstand a wide temperature differential (-50°C to +70°C) including hot surface temperatures. Temperature classification zones range from T1 to T6 zones.

Gas	Dust	Characteristics
Zone 0	Zone 20	Highly likely to be present for long periods of time (>1000hrs per year) or even continuously
Zone 1	Zone 21	Possible but unlikely to be present for long periods of time (>10<1000hrs per year)
Zone 2	Zone 22	Not likely to be present in normal operation or infrequently and for short periods of time (<10 hours per year)

IECEx and ATEX Certified Lighting Solutions

IP65 or higher rating

Robust and durable design to withstand high temperatures

Corrosion resistant

80+ Colour Rendering Index













ignition

[Ex d] Flameproof - enclosure that can withstand an explosion and prevent transmission

[Ex m] Encapsulation encapsulated within a compound or resin so as to prevent contact with explosive atmosphere and limits the surface temperature

[Ex e] Increased Safety - increases security against excessive temperatures and sparks

[Ex p] Pressurized - internal pressure prevents ingress of flammable gas, vapour, dust or fibre and prevent ignition

[Ex o] Oil Immersion - immersed in a protective liquid or oil to prevent ignition

[Ex q] Powder - filled with quartz or glass powder to prevent ignition

ALTSA's LED Lighting Solutions are optimised for upstream, midstream and downstream facilities, and we can prove it:

- Improved lighting quality reduces the amount of lighting needed, lowers power consumption and improves energy efficiency.
- Input voltages ranging from AC100-300V.
- Low voltage operations DC12V,24V,36V and 48V.
- Improved environmental performance including no UV emissions.
- Enhanced quality and lighting distribution of the LED optics include a variety of symmetrical and asymmetrical beam angles.
- All our products come with a standard 5-year guarantee.

Portable Lighting Solutions

ALTSA LED Lighting offers portable lighting systems as a solution for areas where fixed lighting is not feasible or subject to theft. Our range includes Ex marked products designed for harsh and hazardous environments, whether they are in port or off-shore.

The portable luminaire range features lithium batteries with over 1000 switching cycles, ensuring high-quality performance. They provide between 2 and 10 hours of working light, offering flexibility and reliability - where you need it most.

Communication Systems

ALTSA Bluetooth Mesh (BTM) offers a smart lighting-based control system for monitoring and intervention in mining environments. Our luminaires feature integrated IoT networks for below ground control systems. With ALTSA Smart Lighting Systems, you can expect high standards of safety and reliability. Our smart illumination and user-friendly controls ensure visual navigation and easy communication above and below ground.

Benefits

- Improves general lighting levels to optimise efficiency.
- Reinforces safety procedures through visual alerts.
- Initiates alerts and emergency evacuations.
- Manages any human risks.
- Bluetooth mesh network topology allows devices to communicate with neighbouring devices and creates a robust, scalable network.
- The mesh network ensures reliable communication even in environments with obstacles or signal interference.
- Users can manage and adjust lighting settings, schedules and other perimeters via a control point (Mobile App, Control System).
- Bluetooth mesh incorporates security features to protect against unauthorized access and tampering.

ALTSA BTM Sensors

Oxygen levels

Temperature and humidity

Electrical sensors

Water level sensors

Toxic gas levels (CO, CO², CH⁴, SOx, NOx, etc)

Loco and people monitoring

Seismic activity (accelerometers/vibration)

Smoke detection



GASOLINE 2,300 KL

EXPLOSION PROOF



EXPLO TUBES VIEW DATASHEET



SS MAX VIEW DATASHEET



ALTSA ALTBAY VIEW DATASHEET



SWORDFISH VIEW DATASHEET



TRITON HIGHBAY VIEW DATASHEET



POLAR BEAR VIEW DATASHEET



FOREST FROG VIEW DATASHEET



SEA LION VIEW DATASHEET



SHAFT VIEW DATASHEET



GYD FLOODLIGHT
VIEW DATASHEET



PORTABLE FROG VIEW DATASHEET

FLOODLIGHTS



SK FLOOD VIEW DATASHEET



RHINO FLOOD VIEW DATASHEET



MID FLOOD VIEW DATASHEET



MINI FLOOD VIEW DATASHEET



COOL FLOOD VIEW DATASHEET

STREETLIGHTS



MAX II A&C VIEW DATASHEET



H SERIES
VIEW DATASHEET



ST STREETLIGHT VIEW DATASHEET



MAX SB VIEW DATASHEET



S7 STREETLIGHT VIEW DATASHEET



S8 STREETLIGHT VIEW DATASHEET



GALAXY SOLAR VIEW DATASHEET



MINI SOLAR VIEW DATASHEET



AQUILA SOLAR VIEW DATASHEET



EPSILON SOLAR VIEW DATASHEET



SPLIT SOLAR
VIEW DATASHEET



FX SOLAR VIEW DATASHEET



LK SOLAR VIEW DATASHEET



FX SOLAR VIEW DATASHEET



INTEGRATED SOLAR HIGHMAST VIEW DATASHEET

HIGH MASTS



MAX HIGH MAST VIEW DATASHEET



MAX STADIUM II VIEW DATASHEET



MAX STADIUM III VIEW DATASHEET



MEGA STADIUM VIEW DATASHEET



VISTA
VIEW DATASHEET

HIGH BAYS



FLAT HIGH BAY VIEW DATASHEET



SATURN HIGH BAY VIEW DATASHEET



LINEAR HIGH BAY SERIES VIEW DATASHEET



GALAXY LINEAR HIGH BAY VIEW DATASHEET



LINEAR SERIES HIGH BAY VIEW DATASHEET



MAX LINEAR HIGH BAY VIEW DATASHEET



MX LINEAR HIGH BAY VIEW DATASHEET



HONEYCOMB LINEAR HIGH BAY VIEW DATASHEET



LINEAR SERIES HIGH BAY VIEW DATASHEET

BULKHEADS



MAX BULKHEAD VIEW DATASHEET



UP & DOWN VIEW DATASHEET



ADJUSTABLE WALLPACK VIEW DATASHEET



SKEO WALL LIGHT VIEW DATASHEET



CANOPY BULKHEAD VIEW DATASHEET





MID BULKHEAD VIEW DATASHEET



BULKHEAD SERIES



WALL PACK VIEW DATASHEET



HAULAGE LIGHTS
VIEW DATASHEET

HELUKABEL CABLE VIEW DATASHEET

LINEAR



IP65 VAPOUR PROOF



INTEGRATED VAPOUR PROOF VIEW DATASHEET



ITB TRI-PROOF VIEW DATASHEET



H BATTEN
VIEW DATASHEET



OMEGA BATTEN LINKABLE VIEW DATASHEET



SLIM BATTEN
VIEW DATASHEET



BETA BATTEN
VIEW DATASHEET



GAMMA BATTEN
VIEW DATASHEET



LIGHT BAR LINEAR VIEW DATASHEET



ALTSA BATTEN VIEW DATASHEET



OFFICE LINEAR SERIES VIEW DATASHEET



LINEAR TRUNKING SYSTEM VIEW DATASHEET



VANDAL GUARD LINEAR VIEW DATASHEET



ALTSA CYRUS LINEAR VIEW DATASHEET



WRAP AROUND BATTEN VIEW DATASHEET



TP TRI-PROOF BATTEN VIEW DATASHEET



T-SERIES TUNNEL LIGHT VIEW DATASHEET



OWM STRIP LIGHT VIEW DATASHEET

MINING STRIP LIGHTS



MINING STRIP LIGHT
VIEW DATASHEET

MYNA FLOODLIGHT



MYNA FLOODLIGHT
VIEW DATASHEET

CONVEYOR/SHAFT



CONVEYOR MASTER VIEW DATASHEET

STOPE LIGHTING



ASTRA
VIEW DATASHEET



ELECTRA
VIEW DATASHEET

TUBES & LAMPS



LED BULBS VIEW DATASHEET



GU10 BULB VIEW DATASHEET



IP65 PAR38 & GL VIEW DATASHEET



LED TUBES
VIEW DATASHEET



HIGH POWER LAMPS VIEW DATASHEET



IP65 LAMPS
VIEW DATASHEET



TUBERON VIEW DATASHEET



2G11 TUBE VIEW DATASHEET

POST TOPS | SPOTLIGHTS | BOLLARDS



BOTANIC VIEW DATASHEET



ATHOS VIEW DATASHEET



CYRAH
VIEW DATASHEET



POST TOP SERIES VIEW DATASHEET



SOLAR DIAMOND VIEW DATASHEET



APOLLO VIEW DATASHEET



ATLAS
VIEW DATASHEET



CYCLOPS
VIEW DATASHEET



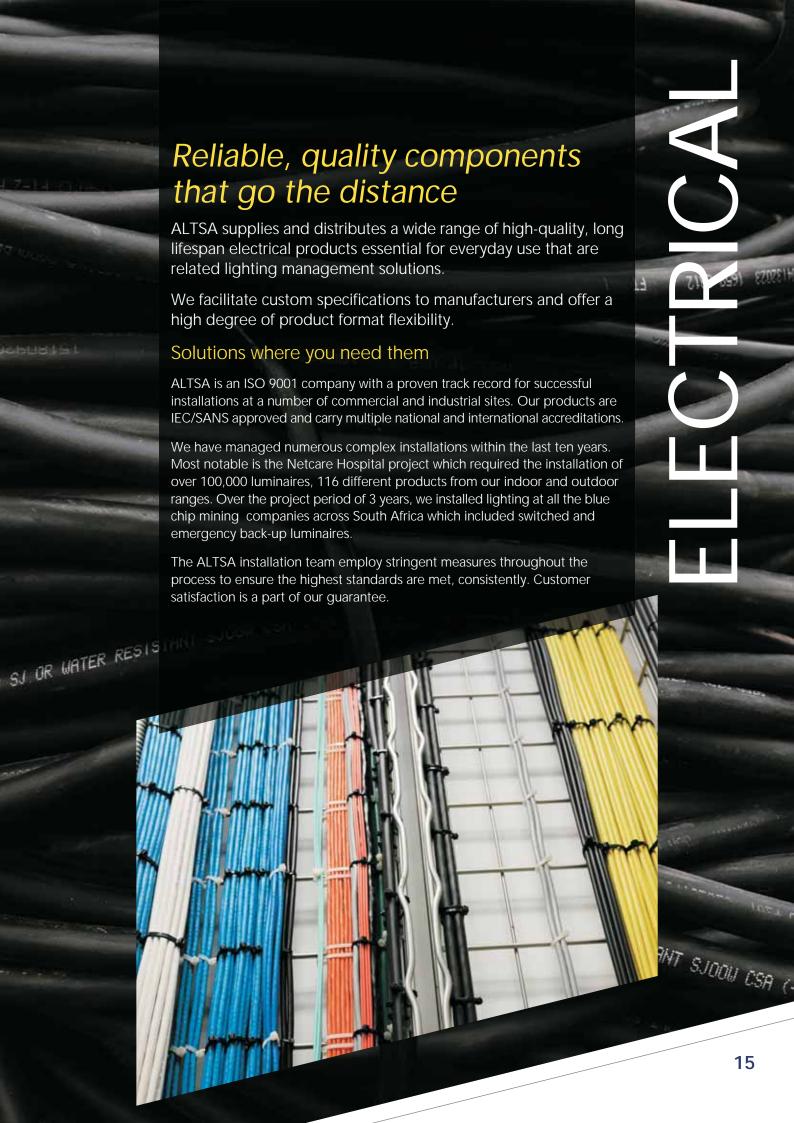
RIO VIEW DATASHEET

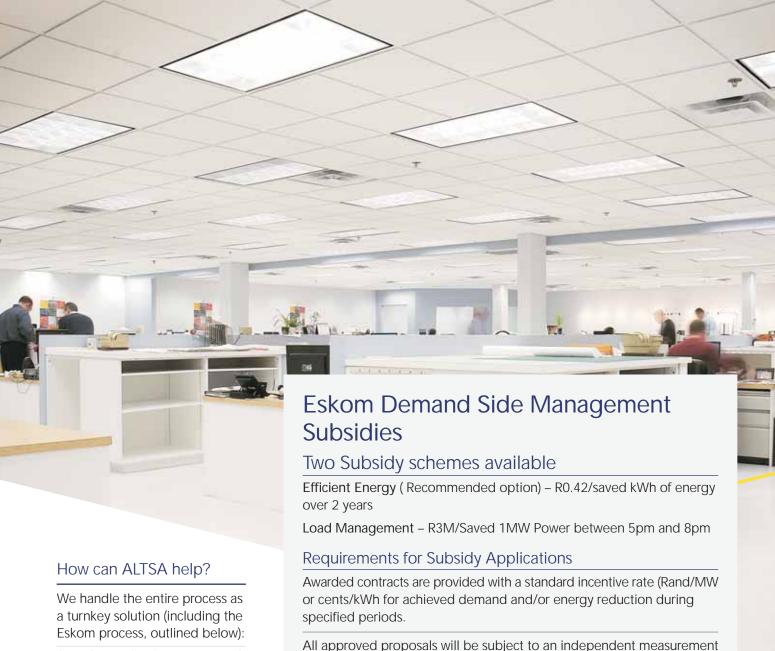


LINA VIEW DATASHEET



VILA VIEW DATASHEET





Start the application process with Eskom (require a letter of intent)

Perform lighting audits on all facilities

Provide efficient lighting proposal

Complete registration process with Eskom

Manage Measurement and Verification

Completes installation project

Manage Subsidy returns

In partnership with LTM Energy, we handle all subsidies on all disciplines

All approved proposals will be subject to an independent measurement and verification of the proposed baseline.

Incentives are paid in 8 equal parts over 2 years

On completion, projects will be independently measured and verified quarterly against the contracted demand and energy savings.

Customer eletricity bill must be up to date.

Projects must be completed within in 6 months.

Only 6 sites are allowed per application.

No duplicate applications/claiming with other incentive programmes will be permitted.

ALTSA Turnkey Solution Provider

Lighting Product Provider

- Luminaire and lamp design
- Lighting product Assembly
- Product Logistics
- Product Warehousing and Distribution
- All lighting peripherals including sensors, battery backups, poles, etc.

Lighting Design and Simulation

- Energy Calculation and Monitoring
- Lighting Audits
- Lighting Energy Proposals
- M & V Management
- Metering installation and Monitoring
- 12L Management

Installations

- Lighting Installations
- Electrical Installations
- Upgrades where needed and not SANS10142 compliant
- Intelligent lighting control systems and integration to building managemet systems
- Complete Maintenance of lighting.

Finance

- Rent to Own
- Provide Share Savings to Own





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