



Electrical | Energy

Industrial Solutions



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Electrical Solutions for Industry



We have skilled engineers with a proven track record who provide bespoke solutions with a focus on energy and sustainability. Our turnkey offer includes project scoping, design, supply, installation and commissioning.

Our areas of expertise are:

- Mini Substations / Transformers
- MV Switchgear
- LV Switchgear
- Smart Metering
- Power Quality and Load Analysis
- Thermal Imaging
- Power Factor Correction
- Tariff Analysis
- Surge Protection
- Earthing, Lightning Protection & Bonding Assessments
- Electrical Distribution Boards / Motor Control Centres
- Electrical Reticulation
- Back-up Power
- UPS & Generator Solutions
- SCADA & PLC Solutions
- Automation and Motor Control



Turnkey Projects



Energy Sustainability



**Technical advice from
qualified Engineers &
Technicians**

Electrical Services for all Electrical Infrastructure

Electrical Switchgear (MV&LV), Motor Control, & Automation

- Audit and Reports
- Fault Finding and Trouble Shooting
- Servicing and Testing
- Retrofits
- Upgrades
- Testing and Commissioning

Power Management

We conduct load recordings for energy efficiency initiatives, including load curtailment. Load analysis provided for sizing PV solar, generators, factory upgrades and power factor improvements. Our services also include electrical tariff analysis.

Power Quality Assessments

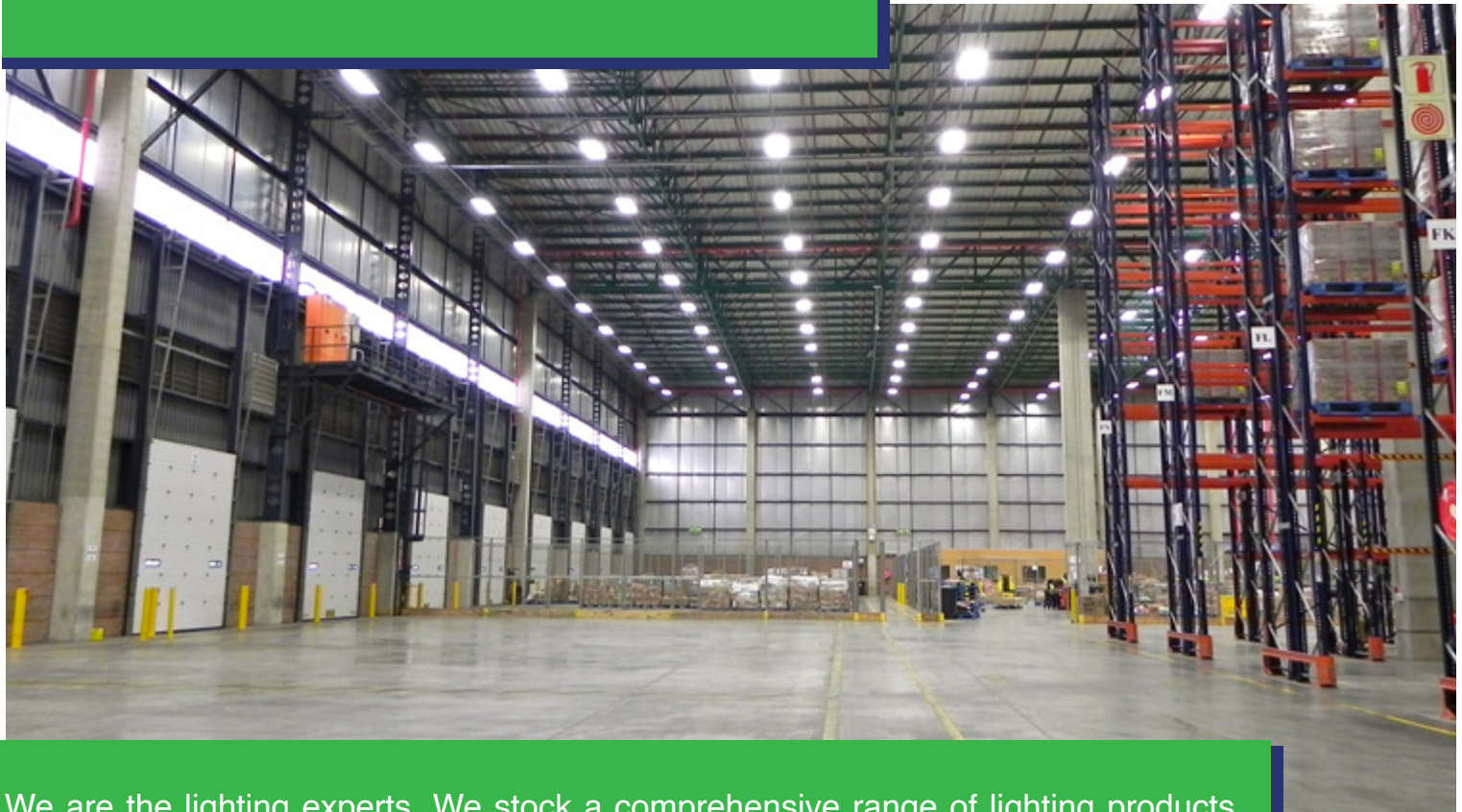
We have a fleet of 15x calibrated PQ meters and a team of qualified technicians and engineers who service our client's needs with assessing site conditions. We review our client local electrical network with specific emphasis on voltage dips, surges, harmonics, unbalanced loads and transients. We provide a detailed report with remedial works required and can offer a turnkey solution thereafter.

Compliance - Thermal Imaging

We provide auditing of electrical infrastructure for health & safety compliance. Through thermal imaging inspection, we develop a comprehensive report and recommendations for remedial works.



Lighting Products and Solutions



We are the lighting experts. We stock a comprehensive range of lighting products to suit your requirements. We have trained engineers who specialise in turnkey installations with a strong focus on compliance, energy efficiency and sustainability.

Let us supply you with all your lighting needs:

Indoor Lighting:

- Highbays
- Dustproof
- Bulkheads
- Retail Linear Lighting
- Explosion Protected
- Emergency Lighting
- Panels
- Downlights

Outdoor Lighting:

- Floodlights
- Outdoor Bulkheads
- Street and Amenity
- Water & Dustproof
- Solar Lighting

MARS
LED LIGHTING SYSTEMS

 **Cassara**
LIGHTING

 **EMERSON** | **APPLETON**
Distributor

PHILIPS

GENSTAR
LIGHTING

 **MESMERIZE**
LIGHTING

 **PIOLED LIGHTING**
Pioneering LED Lighting

TEC-MAR

Engineered Solutions for all Lighting Infrastructure



Value packed lighting solutions and designs

Let our team of experienced lighting engineers give you a solution to cater for your specific needs.

Audit

To assess OHSACT compliance, energy efficiency & emergency lighting requirements

Design

Using latest simulation software ie: Relux and Dialux

Greenfield sites

Brownfield sites

Full Turnkey Solution

Design, supply, installation and commission

Alternate Funding Models

Shared savings

Magnet Capital finance solutions



**Guaranteed product
life expectancy**



**Guaranteed Energy
saving Calculations**



**Return of Investment
Calculations**

Solar and Back-up Power Solutions



We are the solar and back-up power experts. Our team of engineers design bespoke, reliable solutions with guaranteed system performance.

Our specialised solar offer includes:

- Full Turnkey - System design, supply, install and commission
- Load profiling
- SLA on PV systems
- Genset integration
- Battery energy storage systems (BESS)
- Wind turbines

Grid Tied System:

Reduce your grid usage and reduce your electricity consumption

Grid Tied with Genset:

Save diesel by integrating solar with a genset

Hybrid System:

Guaranteed power availability with solar, generator and battery back-up system

Off Grid System:

Independent power supply with no municipal grid connection



Engineered Energy Solutions

Back-Up Power

Equip your facility with a back-up power system and receive uninterrupted power supply during load shedding and power outages.

- Inverters
- Batteries
- Battery energy storage systems (BESS)
- Generators
- Uninterrupted Power Supply (UPS)

We offer turnkey solutions bespoke to your facilities needs:

Audit

To assess clients specific requirements

Design

Using latest simulation software ie: Helioscope, Cad
Greenfield sites
Brownfield sites

Full Turnkey Solution

Design, supply, installation and commission

Alternate Funding Models

PPA
Rent-to-own



Turnkey Projects



Energy Sustainability



Technical advice from
qualified Engineers &
Technicians

Genset



UPS



BESS



Head Office: Durban

Unit 5 Edstan Business Park,
2 Ibhubesi Rd, Riverhorse Valley, KZN
+27 31 274 1050

PMB | +27 33 355 5700

Rbay | +27 35 901 1100

JHB | +27 11 397 7936



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www.magnet.co.za