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## **COMPANY PROFILE**

### **History**

Thorn Power started as an electrical product sales company in 1991. Thorn Power has evolved to be a complete electrical engineering company with its offices in Industrial area, Nairobi, Kenya.

Thorn Power deals in a broad range of electrical products for domestic, commercial and industrial applications.

Thorn Power has also over the years become a major solution provider for industries, commercial and domestic setups by helping them identify various ways of cutting costs through the saving of energy. Through conducting comprehensive Power Quality Analysis (PQA) and Energy Audits we are able to advice our customers on the various ways to reduce their power quality problems and the various energy saving opportunities available to them therefore helping them improve their overall efficiency.

Since inception Thorn Power has built a strong engineering team that has well established knowledge in the electrical engineering field and is able to apply its knowledge to the actual situation.

Thorn Power has a well established market throughout Kenya for 20 years since its inception.

### **Vision**

To be a leading company in providing electrical energy efficiency solutions by the year 2030.

### **Mission**

To spread out our market throughout Africa, both in market share and reputation, while providing maximum return on investment.

Our Focus is providing general electrical solutions for domestic, commercial and industrial consumers and also utility providers.

Thorn Power will achieve its goals by carefully understanding and meeting the needs of our overall market and offering the benefits of proven advance technologies that suits the market. We will transform our customers' efficiency and productivity to sustainable world-class standards.

### **Products**

Thorn Power deals in various products within the electrical scope that helps companies maximize their output production. This ranges from Solutions to products. Some of our products are as below:

#### **1. Power Quality**

Due to increase in more electronic and other sensitive equipments in our industries there is need to have to have clean supply of electrical power to ensure there is minimum production downtimes due to machine breakdowns as a result of poor Quality of Power.

Thorn Power helps domestic and industrial setups know their power quality status and help them to improve where required. This done by the help of Power Quality Analyzer which collects analyses and stores various electrical data which is then used by the electrical engineers to provide improvement solutions. Some of the areas monitored are:

- Transients
- Surges
- Harmonics
- Dips and Swells
- Interruptions
- Flicker
- Unbalance
- Under / Over Voltages

## **2. Energy Saving Solutions**

Electrical Power is becoming a major cost of production for all domestic and manufacturing industries. This has necessitated the efforts to reduce the amount of energy required to provide products and services.

Thorn Power assists companies identify the various areas through which they can save energy. This is done through an energy audit of the entire electrical setup of the premises and then various solutions identified. The areas covered are mainly;

- Maximum Load demand
- Lighting systems
- Motor loads
- Power factor Correction banks

## **3. Electrical Energy Monitoring Systems**

Thorn Power provides energy monitoring systems that help companies regulate their daily energy consumptions. Communication enabled digital meters installed at various production locations can be used to provide actual consumption data to a monitoring centre from which loading decisions can be made as per the production requirements.

## **4. Facility Electrical Protection**

Thorn Power provides solution for complete and reliable protection of structures, industrial and commercial operations and personnel. This is done through the installation of;

- Lighting Protection Systems
- Grounding Systems
- Equipotential bonding
- Surge protection systems

## 5. Motor Condition Monitoring

Through the help of Motor Condition Monitor, 3-Phase electric motors and other motor based machinery and equipments used in industrial processes, especially where motor failure can cause critical damage to the process can be monitored and alarm raised for immediate action before the motor faults occur. This is a software based device, operating on unique model-based monitoring technology that has the ability to detect impending mechanical and electrical failures such as an balance, misalignment, bearing and rotor faults, static and dynamic eccentricity, core damage, leakages, valve and vane misadjustments, stator isolation problem on the motor or motor driven process. The Monitor is available for both Low and Medium Voltage applications.



**Motor Condition  
Monitor**

## 6. Electrical Cabinets

Thorn Power designs and manufactures Medium and Low voltage electrical cabinets based on Iskra Technology for both domestic and industrial setups. This includes

- Switchboards
- Distribution panels
- Control Panels
- Power Factor Correction Banks
- Points of Common Coupling interface

## 7. Other Products

- i. Soft Starters for all Medium and Low Voltage applications based on Solcon Technology
- ii. Variable Speed Drives based on Vacon Technology.
- iii. Low voltage Switchgears based on Iskra Technology including: MCCBs, MCBs, Contactors (Industrial and Domestic), Display meters, Surge arrestor systems, Motor overloads, Motor Protecting Circuit Breakers, Power factor Correction products.



**Moulded Case  
Circuit Breaker**



**Motor  
Contactors**



**Installation  
Contactors**



**Miniature Circuit  
Breaker**



**Residual Current  
Circuit Breakers**



**Circuit Breaker  
Motor Protection**



**Contactor  
Assemblies**



**Distribution  
Boards**



**Load Break  
Switches**



**Thermal Overload  
Relays**



**Measuring Centre**



**Measuring Transducer**



**Portable Meters**



**Current Transformers**



**Analog Panel Meters**



**Variable Speed Drives**



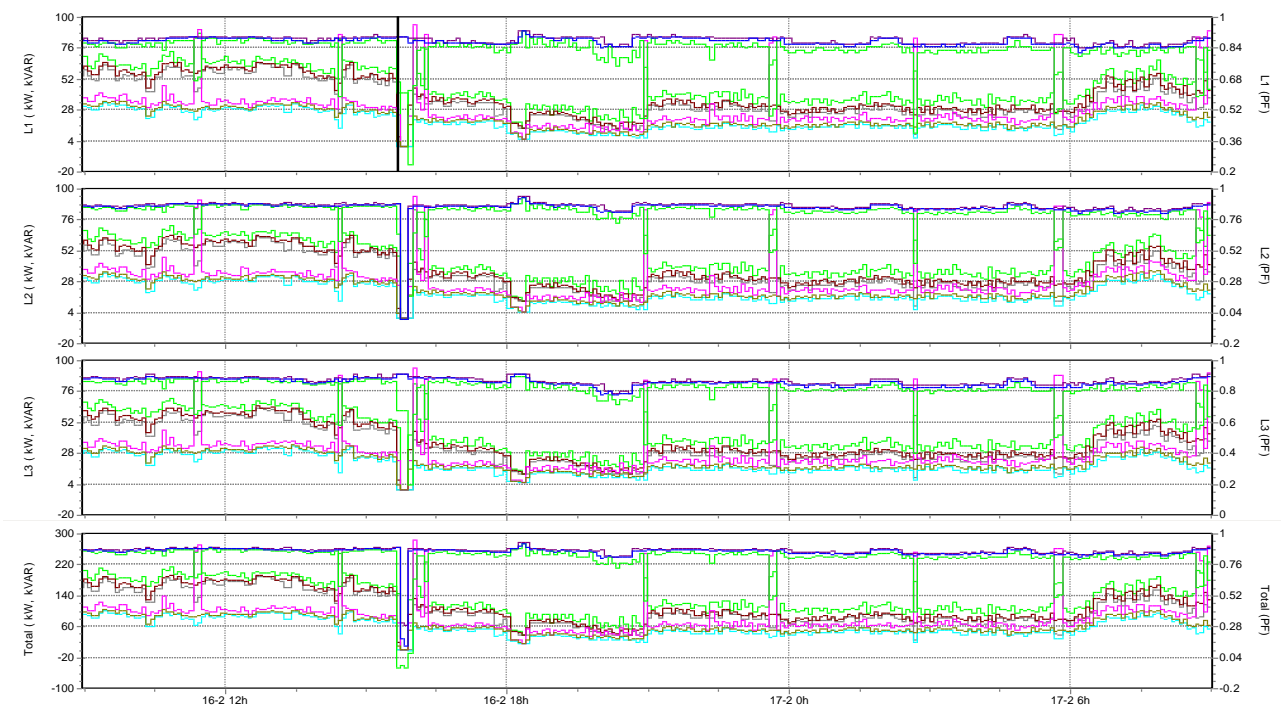
**Power Factor Controller**



**Capacitors**


**MCC Panel with VSD**

**PCC Panel**

**Automation Panel**

**Power Quality Analysis**

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**List of some of our valued Customers**

1. Brookside Dairy Limited
2. Unga Limited (Commercial Street)
3. Unga Limited (Eldoret)
4. Unga Limited (Nakuru)
5. Bigot Flowers (K) Ltd , Naivasha
6. Unga Farmcare (E.A.) Ltd, Nairobi
7. Panesar's Kenya Limited, Nairobi
8. Kinangop Dairy Limited, Kinangop
9. Allpack Industries Limited, Nairobi
10. Sameer Agriculture and Livestock Ltd, Nairobi
11. Kiptagich Tea Company Ltd, Olunguruone, Bomet
12. Bizone Printers Ltd, Nairobi
13. Khetshi Dharamshi & Co. Ltd, Nairobi
14. Spin Knit Ltd, Nakuru
15. Panda Flowers Ltd, Isinya
16. Odd-Mac Engineering Ltd, Nairobi
17. Metal Equipments Ltd, Nairobi
18. Sanyo Armco Ltd, Nairobi
19. Monarch Properties Ltd, Nairobi
20. Dakota Holdings Ltd, Nairobi
21. Pressmasters Limited, Nairobi
22. International Paper Board Supplies Limited, Nairobi

And Many more.