



RCO

# RCO ENGINEERING

Specialist in Energy Conservation  
and Switchgear Equipments

Company Profile

# Introduction of **RCO ENGINEERING**

Our company "RCO Engineering" has been engaged in the field of power optimization since the year 1999 serving multinationals & individual customers according to their requirements and fulfilling our responsibilities.

Our offices are situated in Karachi, Lahore, Islamabad & Gwadar and readily provide electrical works & energy conservation services to Nationwide.

RCO Engineering is committed to exceed your expectations and our integrity is unmatched throughout the industry. We strive to provide best possible service to our customers till satisfaction.

We at RCO Engineering are committed to serve the highest quality standards that fulfill and exceed the expectation of our clients. Team work and ethical practices are the watchwords of the committed RCO Engineering where personnel integrate together in an endeavor to excel through continuous expectations.

Quality performance, efficiency and aesthetics, these are the hallmarks of RCO Engineering. We wish to be a part of your engineering problems in terms of providing solutions.

## **Mission & Vision**

Our mission is to ensure that problems are properly analyzed and to treat it with the most up-to-date technology, equipment and products available in our industry and to deliver a level of satisfaction unparalleled in the industry.

Our Vision is to become one of the nation's leaders in the service industry. We strongly believe in committing ourselves to excellence by providing best client support in all of our communities through prompt response and exceptional services across Pakistan.





## Our Services

Our major areas of concern are in [Switchgear Equipments](#) like

- Electrical Switchgear: Designing Of LT/D.B Panels and other electrical switchgear work on turnkey basis.
- K-ELECTRIC/WAPDA Services: Providing turnkey services from them.
- Line Conditioner: Solution For Voltage Fluctuation of the complete premises.
- Power Factor Improvement Plant: Eliminates PFI Penalty & Reduces Torque.
- ATS & AMF Systems: Automation Of Generators.
- Variable Frequency Drives For Motor: Protection of heavy electrical motors from burning and energy saving up to 30%.
- Solar System: Residential & Commercial Solar System Solution.
- LED Lights: Suppliers, Distributors and importers of LED Lights.
- CCTV System: Designing a full CCTV Surveillance System to cater your needs.



# Electrical Switchgear

By utilising our extensive knowledge and experience in the design and manufacture of custom built and standard switch panel construction, RCO Engineering can produce designs to suit specific customer requirements.

RCO Engineering offers an extensive range of both wall mounting and floor standing switch boards. These modules are specifically designed to offer ultimate flexibility as they allow for the design and build of distribution systems to suit every application.

The modular building block design produces an effective and compact switchboard system with a space-saving and high stacking density. These units can grow depending on the energy needs of the application as the modular design is easy to extend and modify.

All of RCO Engineering's switchboards are individually designed and tailor made to suit your needs. We take into account the space available, cable entries, access into the switch room and any other special site requirements

## Our Scope Includes:

- Low Voltage Switch boards
- L.T Panels
- Automatic synchronizing panels
- Motor Control centers
- Power Factor Improvement Plants
- Process Control and instrumentation panels
- Control Panels
- Distribution Boards (Flush or Surface)





# K-ELECTRIC/WAPDA Services

We provide turnkey services from K-Electric & WAPDA within a short span of time such as:



New Connection (Industrial/Commercial)



Installation of PMT



Substations



Load Sanction

# Line Conditioner

## A Solution for Voltage Fluctuation of Complete Premises

As we all are aware that there is a major problem of voltage fluctuation in Pakistan due to which the appliances do not function properly. Many organizations such as banks, run their generators due to no proper voltage at many of their branches which puts a burden on them by increasing their expenses i.e. fuel of generator. We provide you with the solution that is by installing LINE CONDITIONER which enables the appliances to function smoothly and hence extending their life.

Voltage fluctuation in power systems can cause a number of harmful technical effects, resulting in disruption to the production processes and substantial costs.

### Features & benefits of line conditioner

- Prolongs the life of appliances
- Provides steady & appropriate voltage correction
- Provides consistent voltage output irrespective of variations in the load current
- In built surge protection
- Heavy Duty Servo Motor based
- LED Indication for input and output ON
- One year warranty





# Power Factor Improvement Plant

We are the one of the pioneer in manufacturing in Pakistan of power factor based on German Technology which reduces your electricity bills and waive off your P.F. penalties by reducing the ampere load of your appliances.

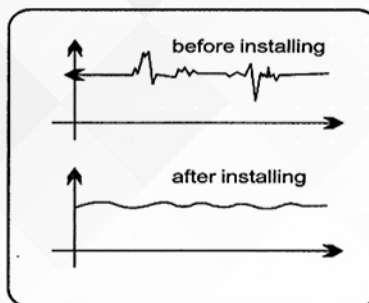
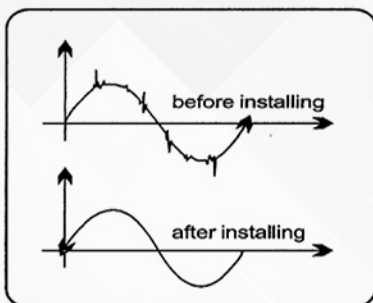
- Hassle free cable installation
- No worry about offences
- Increase your power efficiency
- Stabilize your current
- Prolong the lifetime of your electricity appliances
- Reboost the line loss electrons
- Reduce your electricity bills by controlling torque load



## How Does It Work

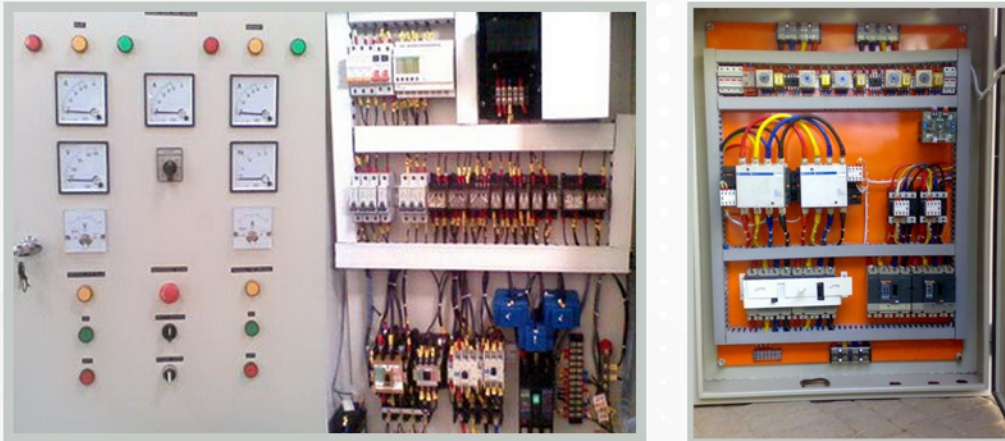
Power Factor optimizes the voltage and current demands thus reducing the active power/K-Wh demands as well as optimizing wave form. Increases power factor whilst at the same time decreasing amp load, hence resulting in decreased energy consumption.

### SCHEMATIC DIAGRAM



# Automation of Generators

Financial Institutions have a more demanding power supply. The power for banks allows absolutely no interruption and must be provided in a super silent way. To meet the demanding requirements, the power generators must have excellent performance; also AMF and ATS systems are required.



## Benefits

1. Whole set product and turn key solution helps customer use the machine and maintain it easily without much technical knowledge.
2. The control system has AMF function, which can auto start or stop the machine. In an emergency condition the machine will alarm and stop.
3. No manpower required to switch the generator on/off.



# Variable Frequency Drives For Motor

## What are Variable Frequency Drives?

Variable Frequency Drives (VFD) is advanced microprocessor controlled programmable devices that convert the AC three-phase system with its constant voltage and frequency into a new three phase system with variable voltage and frequency.

The Variable Frequency Drive is suitable for any general-purpose application that involves a AC motor, has full of operation functions. Built-in variable digital/analog input functions to meet a wide variety of needs. RCO's variable frequency inverter is easy to install and convenient to humanity operating features.

### Benefits

- Energy Saving up to 30%.
- Stabilize voltage
- Motor Speed Control
- Increased motor lifespan
- Generator Rating Advantage
- Low fuel consumption of Generator
- Motor Protection
- Motor Torque control
- 50/60Hz Operation
- Any direction of Rotation



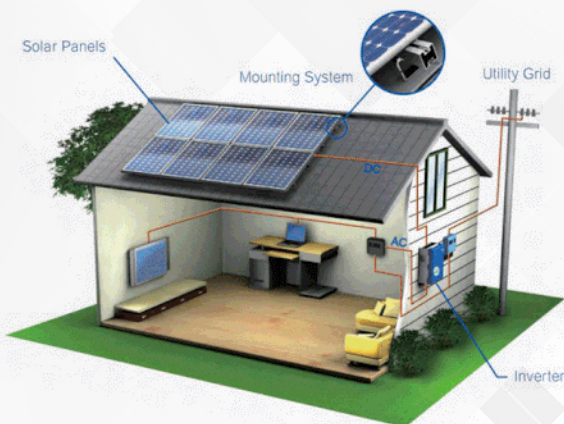
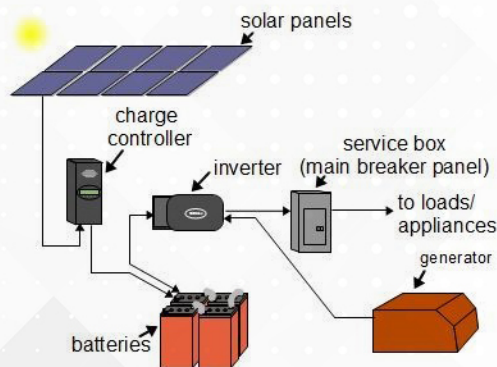
## Solar System

RCO Engineering provides custom solar power systems designed to reduce electricity costs for homes and business owners. Focused exclusively on serving customers in all cities of Pakistan. In addition to this we have in-house design teams and solar power experts providing custom, affordable solar systems for homeowners and businesses in Pakistan. From an initial consultation to turning on a new solar power system, we do solar right.

**RCO Engineering will show you how you can maximize the benefits of solar power in Pakistan**

### Solar Power System Benefits

- Lowering or eliminating your electricity bill
- Protecting you from increases in electricity rates
- Increase Your Property Value
- Better For The Environment





## LED Lights

### Suppliers, Distributors, and Importers of LED Lights

With good industry experience and knowledge, we have been able to provide our clients high quality LED Lights.

RCO Engineering provides LED Lights for

1. Home & Offices
2. Industrial Areas
3. Outdoor Areas



LED FLOOD LIGHT  
Range: 50W – 400W



Surface Type Light  
Type: Round/Square



Concealed Type Light  
Type: Round/ Square



LED Panel Light  
Type: 2ft x 2ft



LED HI BAY Light  
Range: 30W–300W



LED Tube Lights  
Range: 9W(2FT) & 16W(4FT)



COB Light  
Range: All ranges available



LED Bulbs  
Range: 5W–18W



Track Light  
Range: All ranges available

## CCTV System

CCTV Surveillance Systems are one of the most powerful security tools that a business can own and with the technology available today, this essential tool can protect people, property and information in any type of location large or small, from a single office to an entire city.

### Features

1. Easy to manage and extremely configurable whilst remaining low in maintenance
2. Simultaneous viewing, playback, recording and archiving
3. Remote connectivity via ADSL, ISDN, LAN or WAN
5. Remotely monitored systems installed and monitored.

### Benefits

1. Helps to create a safer environment for employees, visitors, premises and property
2. Acts as a stern deterrent to would be criminals
3. Greatly improves building control and management processes
5. Can assist with emergency and accident management
6. Can be integrated with new or existing building systems and processes





## Our Clients

### FINANCIAL INSTITUTIONS



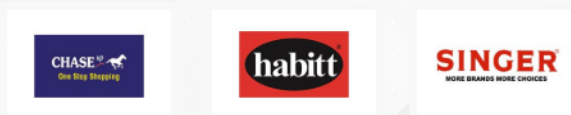
### MEDICAL INSTITUTIONS



### RESTAURANTS



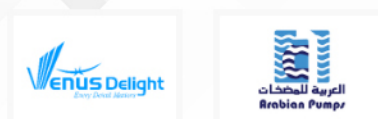
### CHAIN OUTLETS



### INDUSTRIES



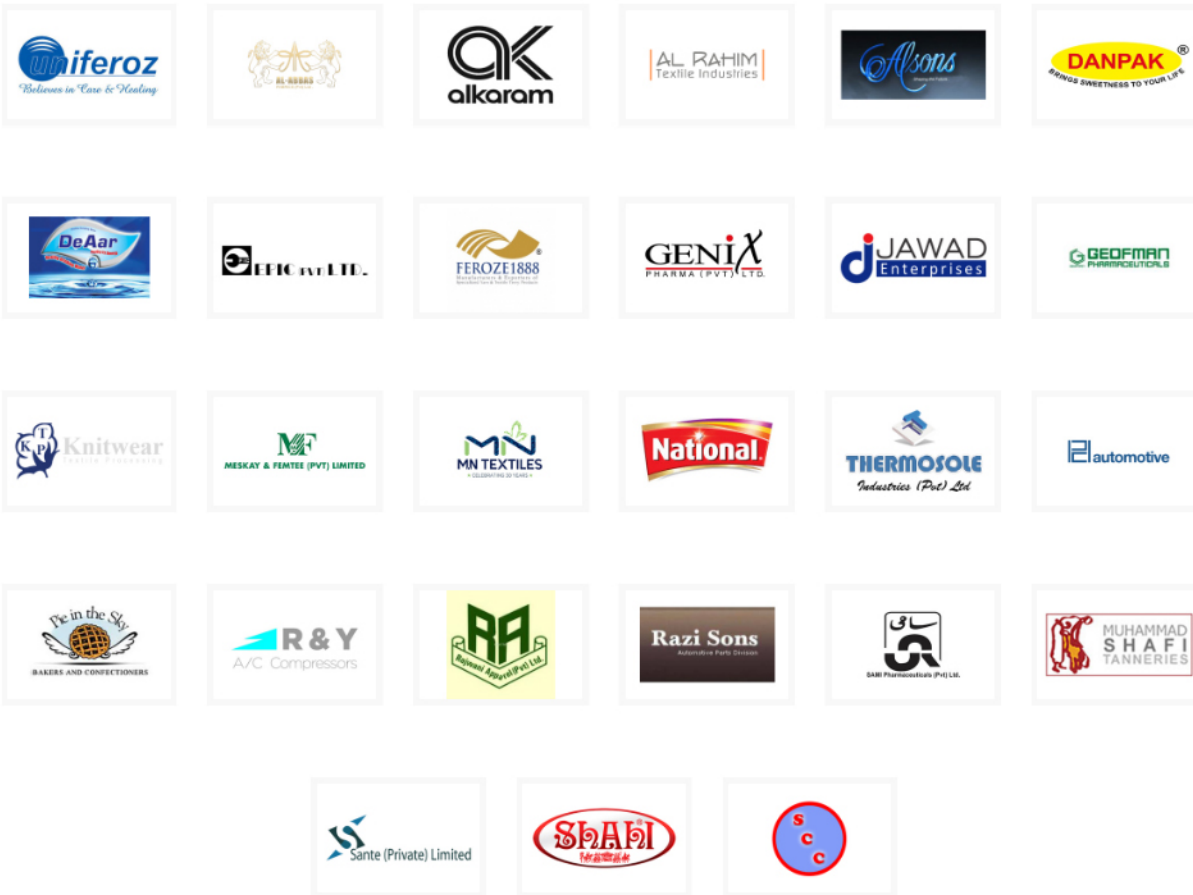
### CHAIN OUTLETS



RCO ENGINEERING

## Our Clients

### INDUSTRIES



### OUR PROJECTS

Omni Motorsport  
Pvt, Ltd

RCO ENGINEERING