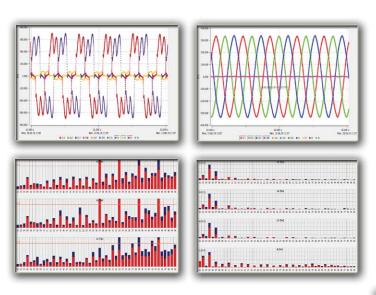


# POWER QUALITY / HARMONIC STUDY, MEASUREMENT, ANALYSIS & SERVICES - SOLUTIONS

## **MEASUREMENT**

- Measurement & Recording of various parameters with PQ events and disturbances according to the International standards.
- Harmonic measurement equipment used is Class A device in compliance to IEC 61000-4-30 Ed. 3 and IEC 62586-1 Ed. 2
- Measurement done at PCC (Point of Common Coupling) Points and at Individual Equipment











## **ANALYSIS**

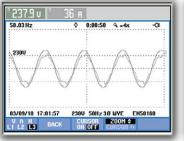
- Trained Engineering team has conducted more than 500 measurement with Analysis and Solutions at different locations in GCC Region.
- Verification of measurements and reports from experts Schaffner AG, Switzerland, world pioneer in the field of power Quality Solutions, over 62

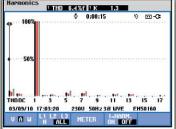
## **SOLUTIONS**

- We provide detailed analysis along with optimum PQ solution from our expert team.
- We are authorized service partner for the Middle East of Schaffner AG, Switzerland, World Leader in Power Quality Solutions.
- We are One Stop Shop for PQ Solutions We have wide range of products to solve all your Power Quality issues





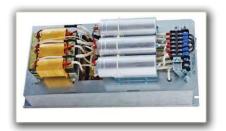




# **OUR SERVICES**

#### **PRE-SALES**

- Our Pre-Sales Engineering Team supports customers with field analysis, engineering & optimization, testing and measurement.
- Our goal is to ensure to achieve the level of harmonics mitigation as per client specification, requirments and complying International Standard IEEE 519, EN50160 & IEC 61000
- Schaffner Power Quality Simulator PQS is a tool which allows the accurate modelling and simulation of low voltage 3-phase network topologies. Simulation of power, current and voltage at all network nodes with support for the proper selection of harmonics mitigation technologies Simple and easy to use reporting features, verifying
- Simple and easy to use reporting features, verifying of compliance with selected power quality standards and suitable for systems with variable speed drives
- Engineering and Optimum Sizing of Active Harmonic Filter and Selection of optimum Power Quality Solutions







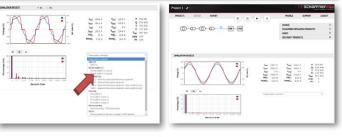
### **OUR ESTEEMED CUSTOMERS**

- Dubai Electricity & Water Authority (DEWA), Dubai, UAE.
- Sharjah Electricity & Water Authority (SEWA), Sharjah, UAE
- Presidential Palace, Abu Dhabi, UAE
- Ministry of Defense (MOD), Muscat, Oman
- Sharjah Municipality, Sharjah UAE.
- ADNOC Ruwais Refinery, Ruwais, UAE.
- ADSSC, Abu Dhabi
- PDO, Oman
- Riyadh Metro, KSA

#### IEEE 519 - 2014 Voltage and Current Limit

Bus voltage V at PCC	Individual harmonic	THD
$V \le 1.0 \text{ kV}$	5.0 %	8.0 %
$1 \text{ kV} < \text{V} \le 69 \text{ kV}$	3.0 %	5.0 %
69 kV < V ≤ 161 kV	1.5 %	2.5 %
161 kV < V	1.0 %	1.5 %

Isc/IL	$3 \le h < 11$	$11 \le h < 17$	TDD		
< 20	4.0	2.0	5.0		
20 < 50	7.0	3.5	8.0		
50 < 100	10.0	4.5	12.0		
100 < 1000	12.0	5.5	15.0		
> 1000	15.0	7.0	20.0		



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# INSTALLATION SUPERVISION TESTING & COMMISSIONING

- Our trained team of engineers provide all supports for Installation, Supervision, Testing & Commissioning of our range of Harmonic Filters followed by post installtion Harmonic Study for Verification.

# AFTER SALE SERVICES & REPAIR CENTER

- We are authorized Service & Repair Center of Schaffner AG Products in Middle East to provide Maintenance Service, Repairs, Spare Parts.

Services and Repair are conducted by Schaffner trained & certified engineers.

#### **CONTACT US**

PO Box 39510, Dubai – UAE

Tel: +971 4 324 5033 Fax: +971 4 224 3814

Email: info@powertechsys.com