

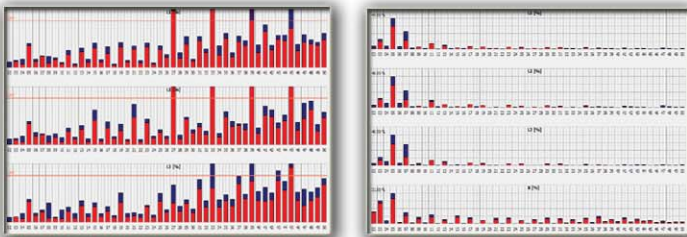
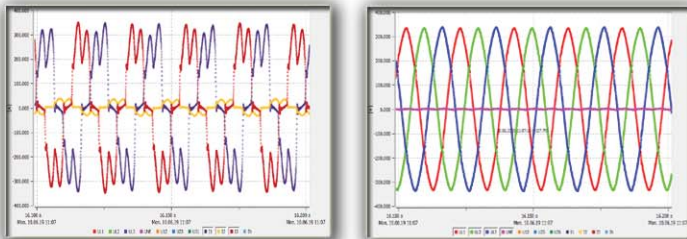
## MEASUREMENT

- 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



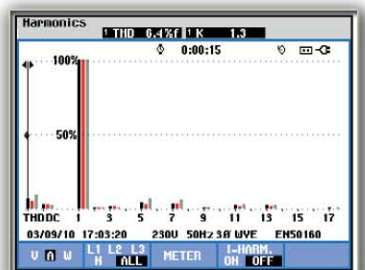
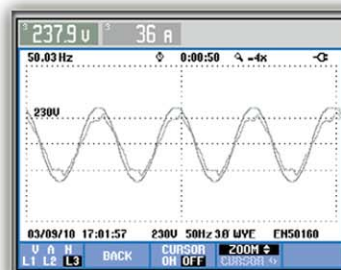
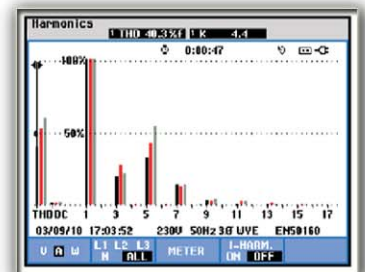
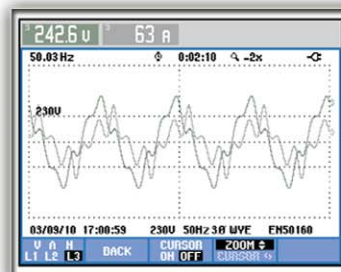
## ANALYSIS

- 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

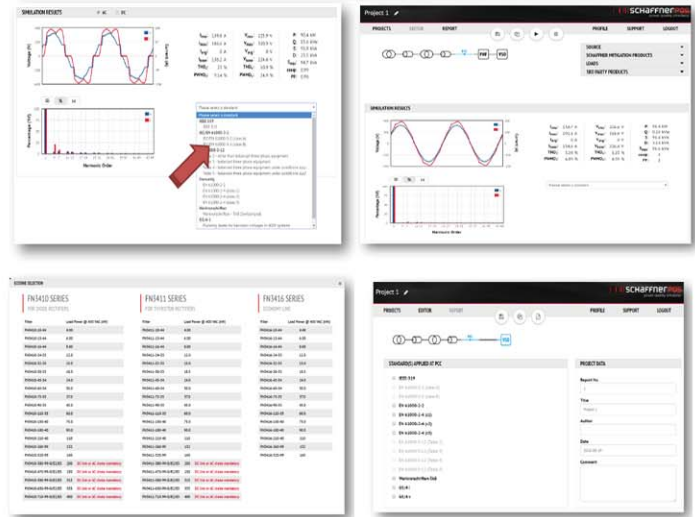
## PRE-SALES

- 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, requirements 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 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

### IEEE 519 - 2014 Voltage and Current Limit

Bus voltage V at PCC	Individual harmonic	THD
$V \leq 1.0$ kV	5.0 %	8.0 %
$1$ kV $< V \leq 69$ kV	3.0 %	5.0 %
$69$ kV $< V \leq 161$ kV	1.5 %	2.5 %
$161$ kV $< V$	1.0 %	1.5 %

Maximum odd harmonic current distortion in percent of $I_L$			
$I_{sc}/I_L$	$3 \leq h < 11$	$11 \leq h < 17$	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

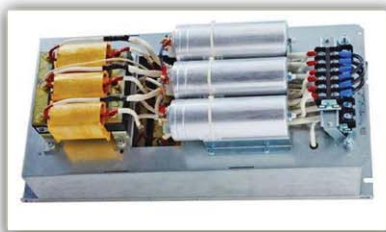


## INSTALLATION SUPERVISION TESTING & COMMISSIONING

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



## 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

## CONTACT US

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