



ESEC[®]
EAST SEA ENERGY ENVIRONMENT



Project: Active Harmonic Filter Solution
Customer: HILTON HOTEL VIETNAM

TURN IT BALANCE

Customer Profile



Hilton Saigon Hotel is one five-star hotel project and located at Me Linh Square, District 1, Ho Chi Minh City - the most favorable position in Ho Chi Minh City. The Hotel has 5 basements and 40 floors and is the third tallest building in the City

The Competition

The customer initially chooses the passive filtering solution that is a non-optimal and high-performance solution, the competition is eliminated due to the strong technical team & ESEC's capability starting from performing PQ Audit services until the propose the AHF PCS+ offer with the reliability of our products....

Customer Challenge

PQ Meter + PME Software



Accusine PCS+



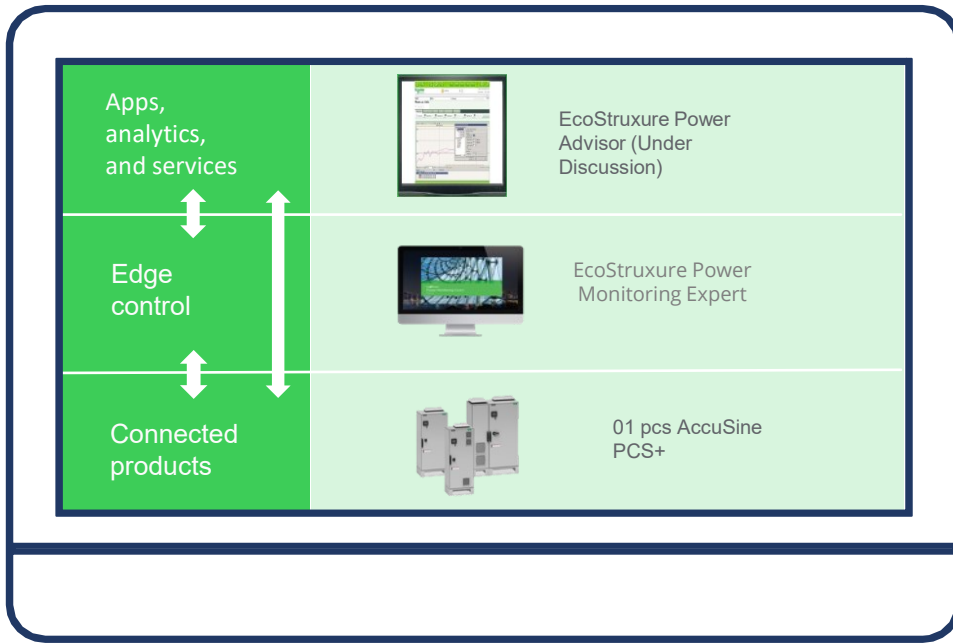
EcoXpert Partner



Almost a collapse of the power distribution system:

- Low PF
- Neutral overload due to 3rd harmonic currents
- Poor power quality caused by LED lights and PCs
- Reduce harmonic level into safe region as suggested by Regular 39,30 – Vietnam MOIT & IEEE 519 standard. < 5% TDD.

The Solution

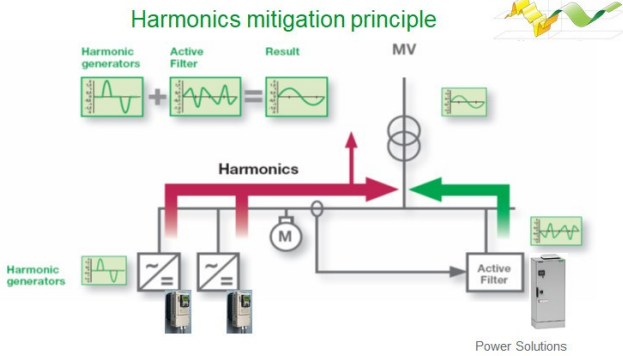


1
Power Quality Assessment Service done by ESEC's Team

2
01 pcs of AccuSine PCS+ for PCC incoming power supply for VSD Main Production Lines

Customer benefits

Power quality (Harmonic) of Hilton Hotel Vietnam will comply with IEEE 519 and TCVN (Regular 39 & 30 – Vietnam MOIT) standard

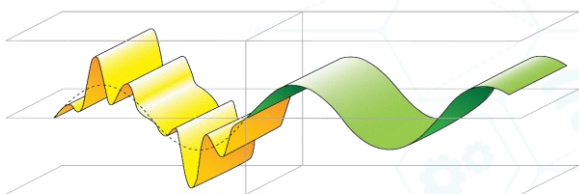


- Improve power reliability and productivity (power management)**

- ✓ Reduce peak currents which frees system capacity
- ✓ Limit current distortion
- ✓ Cancel the effects of harmonics

- Avoid equipment damage or shortened life (asset management)**

- ✓ Reduced harmonics diminishes the production of excessive heat
- ✓ Prevent logic faults which can result in downtime
- ✓ Improve equipment service life time



Parameter	Before	After
THDv	11.7%	5.3%
THDi	22.4%	5%
DPF		1.0

- Improve financial performance (cost management)**

- ✓ Reduce power factor penalties
- ✓ One of the factors that contributes to the power consumption saving program of factory