

The Importance of Power Quality in Energy Management

“The Energy Manager’s Guide”

Many large energy users in Ireland have set strict targets to reduce their energy emissions and costs and are embarking on extensive energy management programmes to reduce energy bills.

This hive workshop provided by Premium Power aims to outline the links between energy management programmes such as ISO 50001 and poor power quality in pharmaceutical facilities. These links may not be immediately apparent, but if unchecked may lead to unplanned production downtime.

Paul Dempsey, Premium Power’s Electrical Projects Engineer will present two contrasting industry case studies, highlighting examples of both good and bad practices when rolling out energy saving initiatives. Some of the main presentations of poor power quality include harmonic distortion, short/long power interruptions, transients, surges, flicker, unbalance, under/over voltages and EMC issues.

Common causes of power quality problems can be directly linked to variable speed drives, diode bridges, non-detuned capacitor banks, and electronic lighting ballasts; types of equipment most often installed in manufacturing facilities to reduce electrical energy consumption.

The workshop will provide delegates with a focus on managing the risk in a facility when embarking on energy saving programmes. What should be examined? What is the real return on investment in monetary terms? What are the guidelines that offer a systematic approach to allow well informed decisions to be made?

The presentation takes place from 12pm to 12.30pm in Room A, Croke Park Conference Centre at the Future in Pharmaceuticals conference on Wednesday 24 February.