

Pumping System Assessments Workshop

Thursday 15 September 2011

Accredited for 1 CPD Point

R3,500 + VAT

A panel of experts will examine in detail various aspects of an assessment and expand on their presentations from the Conference in an interactive forum. Delegates will leave this workshop with a working knowledge of how to conduct an assessment of their own systems, the main things to look out for, possible remedies to the most frequent problems and the options for financing improvement projects.

Assessment Standards - Gunnar Hovstadius (UNIDO International Expert)
ASME EA-2-2009 – Energy Assessment Standard for Pumping Systems

- Provides a common understanding of what should be included in a pump system assessment to replace the lack of a standardization for pump systems previously evaluated as part of an energy evaluation, audit, survey or energy study.
- Defines specific requirements that must be performed for different assessment levels.

ASME EA-2G-2010 – Guidance Document

- Provides technical background and application details to help the user apply the standard.
- Includes rationale for the technical requirements, application notes, alternative approaches, tips, techniques and examples.

The European product based approach to pumps – Steve Schofield (Technical Director, BPMA)

- ECODSIGN Directive 2005/32/EC
- The European Commission study on water pumps
- Domestic circulator pumps
- Europump extended product approach

Carrying out a pump assessment – Harry Rosen (UNIDO Local Expert)

The Systems Approach

- Pump system reliability and maintenance
- Motor considerations
- Control Methods
- VSD Applications

Conducting the Assessment

- Pre-screening
- Data collection – what and how
- Instrumentation requirements
- Data logging

The Assessment Report

- Structuring the report
- Presenting findings
- Motivating changes
- Finance considerations

Post Assessment action plan

Case studies from USA, Europe and SA

- These will be discussed in detail

Financing pumping systems improvements

Pumping systems are not low-cost items, so a company embarking on an improvement project is facing a potential financial nightmare! The Board is only too aware of this – how does the Engineer or CFO present his case for an improvement project, particularly as it has to compete with a myriad of other more traditional Capex opportunities?

The good news is that the South African Government is keen to incent companies to save power through a series of schemes operated through Eskom, who will be represented in the workshop by Lawrence Padachi, and by 'carrot and stick' measures involving tax rebates and punitive tariffs. Overseas aid and local funding are also available in addition to banks and financial services companies' offerings.

The Workshop format will provide time to examine the pros and cons of each solution in more depth than was possible in the paper delivered at IPUC.