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“Pumping Systems Energy Efficiency Workshop”

Essential Knowledge for Everyone Working with Pumps

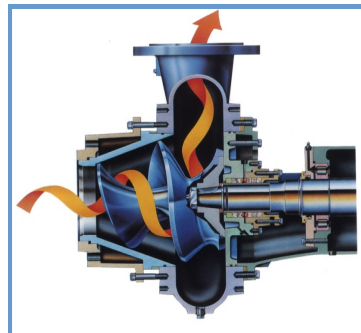
2nd February 2022 / James Cropper—Kendal

Who should attend:

*Energy Managers & Coordinators
Operations Supervisors & Managers
Plant & Process Engineers
Maintenance Personnel*

Energy efficiency of pumping systems is important in that energy efficiency is one of the most important factors in determining pump reliability and maintenance costs. Consequently, energy inefficiency in pump systems increases operating costs due to:

- Higher energy use and cost
- Increased maintenance costs
- Failure (reduced reliability affecting production schedules)



There are many reasons for low energy efficiency of pump systems. Several of these can be identified by simple measurements such as flow, power consumption and total pump head. Other reasons for low efficiency may require a detailed analysis of the pump system to identify specific issues and what steps to take to resolve these issues.

This course is designed to show how to measure pump efficiency so that pump systems are operated at high efficiency following remedial action when the data shows that there is a cost benefit from this action.

Contents

- The relationship between Energy Efficiency and Reliability
- How to assess Pump System Efficiency; what measurements need to be taken and the possible problems in taking these
- How to use the data generated
- What surveys show in terms of Pump System Efficiency - typical efficiency in pump systems
- Options to improve efficiency after finding that a system is inefficient
- The pros and cons of Variable Speed Drives
- How to measure pump failure rates, so that improvements can be tracked



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