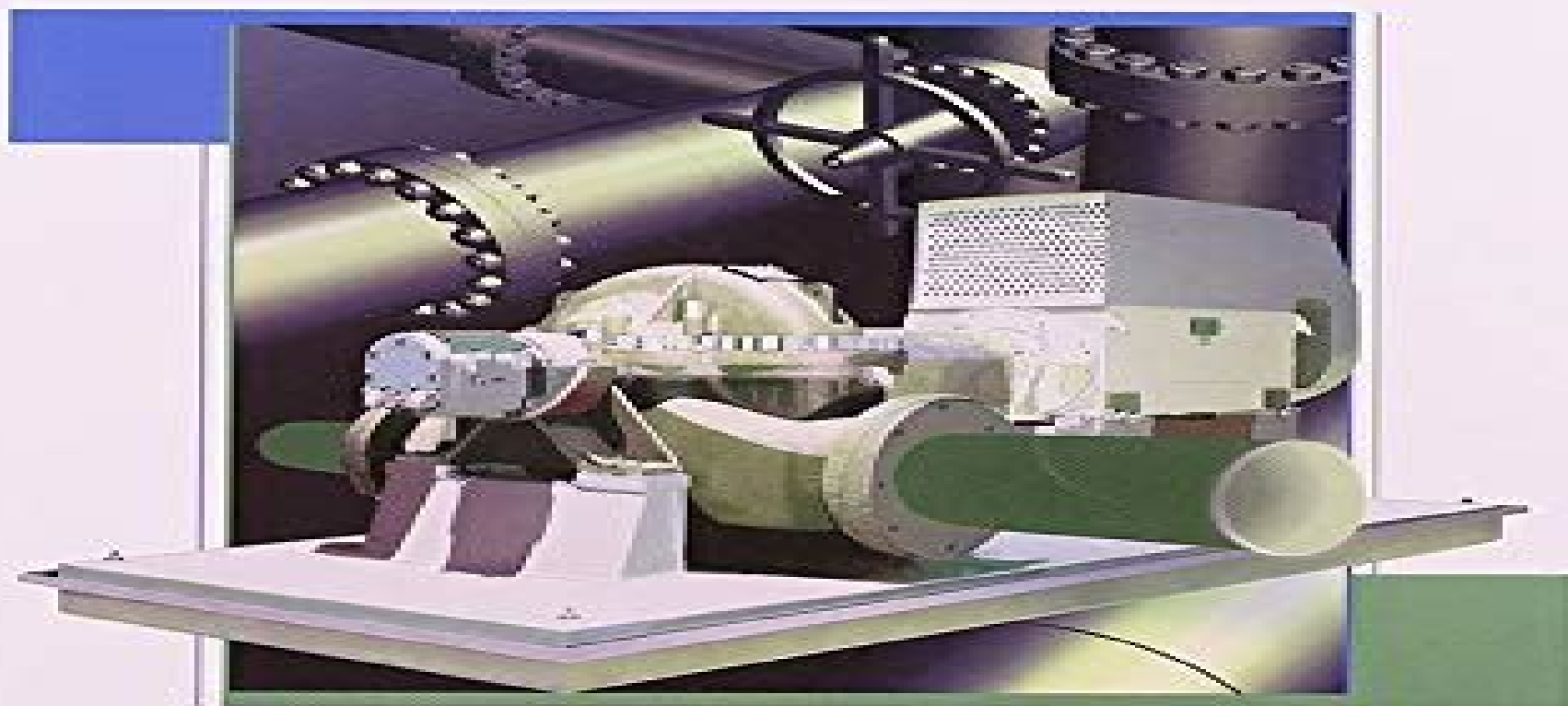


OPTIMIZING PUMPING SYSTEMS



A GUIDE FOR IMPROVED ENERGY
EFFICIENCY, RELIABILITY & PROFITABILITY

Pump Systems Matter™ and Hydraulic Institute

Optimizing Pumping Systems A Guide To Improved Energy Efficiency Reliability And Profitability

em. Dr.-Ing Bernd Stoffel

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

Optimizing Pumping Systems A Guide To Improved Energy Efficiency Reliability And Profitability:

Optimizing Pumping Systems ,2008-01-01 **Energy Efficiency in Motor Systems** Peter Radgen,Paolo

Bertoldi,2024-11-06 This book contains selected peer reviewed papers presented at the 12th International Conference on Energy Efficiency in Motor Systems EEMODS 22 held in Stuttgart Germany from May 3 5 2022 As with previous conferences in this series EEMODS 22 provided a scientific forum to discuss and debate the latest developments and impacts of electrical motor systems on energy and the environment energy efficiency policies and programs adopted and planned standards including ISO 50 001 and the technical and commercial advances made in the dissemination and penetration of energy efficient motor systems Topics covered include emerging motor technologies research and innovation in electric motors power electronics and drives pump systems market surveillance and enforcement mechanisms national energy efficiency standards including case studies plus much more The conference is international by nature and aims to attract high quality and innovative contributions from all corners of the globe while the papers facilitate the development of new technologies policies and strategies to increase energy efficiency **Policy guide to improve water use efficiency in small-scale**

agriculture Food and Agriculture Organization of the United Nations,2019-11-27 This policy guide is drawn from the results of the FAO Project Strengthening Agricultural Water Efficiency and Productivity at the African and Global Level funded by the Swiss Agency for Development and cooperation SDC The long term vision of the project was that the in country findings and processes which are of common nature can be synthesized and scaled up to other countries in a regional cooperation process and globally This will eventually lead to the increase of investment in Agricultural Water Management AWM in the targeted countries and beyond that is socially equitable profitable at the farm level economically viable environmentally neutral or positive and sustainable The Guide focuses on the specific component of Enhancing Water Use Efficiency at small scale irrigation as one of the major outputs of the project While creating and implementing Water Use Efficiency WUE measures at field level existing policy frameworks were mapped and analyzed and recommendations were defined as scalable policy instruments with the aim to demonstrate case specific experiences to the collectively agreed goal of using water resources efficiently *Hydraulic Machinery And Cavitation - Proceedings Of The Xix Iahr Symposium (In 2 Volumes)*

Hermod Brekke,Changguo Duan,R K Fisher,R Schilling,S K Tan,S H Winoto,1998-09-07 Hydraulic machinery such as turbines and pumps are widely used Topics dealing with its design manufacture use and maintenance are covered in this symposium Topics covered in this volume include analysis and design of hydraulic turbines and pumps computational hydraulics and numerical simulation experimental methods for hydraulic machinery studies cavitation in hydraulic pressurized systems and components fluid structure interaction hydraulic transients and control expert systems monitoring and predictive maintenance monitoring and predictive maintenance environmental consideration in turbine design and operation oscillatory and vibration problems in power plants and pumping stations practical applications of hydraulic

machinery innovative technology to small and large hydroelectric power plants and pumping stations case studies including trouble shooting in hydraulic machinery systems This volume consist of papers presented by researchers academics designers manufacturers managers and engineers It is an important reference for investigators who are interested in the latest innovations on Hydraulic machinery Energy Abstracts for Policy Analysis ,1980 **Energy Abstracts for Policy Analysis** ,1980 **MRIS Abstracts** Maritime Research Information Service,1980 **Electrical & Electronics Abstracts** ,1989 **Going with the Flow** ,2002 Industries worldwide depend upon pumping systems for theirdaily operation These systems account for nearly 20 percent of theworld s industrial electrical energy demand and range from 25 50 percentof the energy usage in certain industrial plant operations Purchasedecisions for a pump and its related system components are typicallybased upon a low bid rather than the cost to operate the system over itslifetime Additionally plant facilities personnel are typically focussedon maintaining existing pumping system reliability rather than optimizingthe systems for best energy efficiency To ensure the lowest energy andmaintenance costs equipment life and other benefits the systemcomponents must be carefully matched to each other and remain sothroughout their working lives Life Cycle Cost LCC analysis is a toolthat can help companies minimize costs and maximize energy efficiency formany types of systems including pumping systems Increasing industryawareness of the total cost of pumping system ownership through lifecycle cost analysis is a goal of the US Department of Energy DOE Thispaper will discuss what DOE and its industry partners are doing to createthis awareness A guide book Pump Life Cycle Costs A Guide to LCCAnalysis for Pumping Systems developed by the Hydraulic Institute HI and Europump two pump manufacturer trade associations with DOEinvolvement will be overviewed This guide book is the result of thediligent efforts of many members of both associations and has beenreviewed by a group of industrial end users The HI Europump Guideprovides detailed guidance on the design and maintenance of pumpingsystems to minimize the cost of ownership as well as LCC analysis DOE Hydraulic Institute and other organizations efforts to promote LCCanalysis such as pump manufacturers adopting LCC analysis as a marketingstrategy will be highlighted and a relevant case studyprovided

Application Guideline for Variable Speed Pumping Hydraulic Institute (U.S.),2017 This guideline has been created to provided pump industry professionals and the end user operators of pumps with the knowledge required to apply variable speed pumping so that it will result in improved energy efficiency and increased reliability title page verso Assessing the Energy Efficiency of Pumps and Pump Units em. Dr.-Ing Bernd Stoffel,2015-04-10 Assessing the Energy Efficiency of Pumps and Pump Units developed in cooperation with Europump is the first book available providing the background methodology and assessment tools for understanding and calculating energy efficiency for pumps and extended products pumps motors drives Responding to new EU requirements for pump efficiency and US DOE exploratory work in setting pump energy efficiency guidelines this book provides explanation derivation and illustration of PA and EPA methods for assessing energy efficiency It surveys legislation related to pump energy efficiencies provides background on pump and motor efficiencies and

describes the concept of Energy Efficiency Index EEI for circulators and single and multi pump systems The first book to cover Europump sponsored research on energy efficiency in pumps including coverage of new EU guidelines implemented in January 2015 Discusses Product Approach PA and Extended Product Approach EPA to assessing energy efficiency Derives and explains the Minimum Efficiency Index MEI System efficiency : a guide for energy efficient rotodynamic pumping systems ,2006 **System Efficiency** European Association for Pump Manufacturers,2006 Variable Speed Pumping Europump & the Hydraulic Europump & the Hydraulic Insti,2004-06-10 Prepared by industry experts from the pump motor and drive industries under the auspices of Europump and the Hydraulic Institute this reference book provides a comprehensive guide to variable speed pumping It includes technical descriptions of pumping systems and their components and guides the reader through the evaluation of different speed control options Case studies help illustrate the life cycle cost savings and process improvements that appropriate variable speed pumping can deliver Authoritative global reference to Variable Speed Pumping by Europump and the Hydraulic Institute Combines the technical knowledge of pump motor and control systems in one guide Brings together all the concepts metrics and step by step decision making support you need to help you decide which VSD strategies are most appropriate Will help you design and specify pumping applications that minimise life cycle costs Reducing Energy Waste in Centrifugal Pump Systems Through the Implementation of BEP Optimized Pressure and Flow Control Shane Corlman,2015 There currently exists a gap in the technology surrounding centrifugal pumps When looking at modern literature regarding the application of centrifugal pump systems the existing methods for control are throttle and speed control Herein is described a new method one which uses both throttle and speed control simultaneously to allow for the ability to precisely regulate pressure and flow for an entire system Variable speed pumping when combined with a control valve allows for control techniques which have the goal of optimizing the efficiency of the pump instead of just controlling flowrate Developing a variable speed characterization and finding the best efficiency curve of a pump gives all the necessary tools to create a dual controller to operate a pump in the region of greatest reliability always Experiments show that neither fixed speed operation nor variable speed operation without a control valve can accurately maintain operation at the best efficiency point of the pump Therefore a novel control system using both a variable speed pump and a control valve is proposed to replace individual throttle and speed control The proposed system when used with the best efficiency curve as the operational target maintains the best efficiency point for any flow requirement within the applicable range of the pump Additionally experiments have shown that energy savings from the proposed control scheme can exceed 60% a savings which no fixed speed system can match Dual control with a variable speed drive and control valve can reduce energy consumption and increase pump life and reliability when compared to throttle control or speed control alone by reducing the amount of time that the pump is operating away from its best efficiency point Similarly it provides the tools needed to produce any performance that an operator desires whatever the application may be

Pumping Systems Efficiency Improvements Flow Straight to Thebottom Line ,2002 Industrial electrical motors account for two thirds of theUS industrial electricity usage Pumping systems account for an estimated25 percent of this electrical motor consumption while pumping systems inuse in US chemical facilities consume over 37 000 GWh year based on USDepartment of Energy DOE data A study funded by DOE estimatespotential energy savings within the chemical industry alone ofapproximately 20 percent representing an energy savings of over 7 500GWh year through industrial pumping systems optimization using existing proven techniques and technologies This energy savings potentialrepresents significant cost savings potential for industrial facilities Additionally it has been shown that energy efficiency improvements toindustrial systems usually provide improved reliability improvedproductivity and reduced environmental costs *Variable Speed Pumping* ,2004 Europump HI s Variable Speed Pumping A Guide to Successful Applications describes the basic principles of pump motor and drive technology through to more advanced detailed concepts The guide encourages the use of variable speed pumping in appropriate applications leading to cost savings from both reduced energy consumption and increased pump system reliability BOOK JACKET *Improve the Energy Efficiency of Pump Systems, Software Tools for Industry, Industrial Technologies Program (ITP) (Fact Sheet).* ,2008 This fact sheet describes how the Industrial Technologies Program Pumping System Assessment Tool PSAT can help industrial plants identify opportunities to save energy and money in pump systems Pump Life Cycle Costs ,2001 This 16 page brochure is a management tool that can help companies minimize waste and maximize energy efficiency for many types of systems including pumping systems **Identifying Energy Savings Opportunities in Industrial Pumping Systems** ,1999 In most industrial settings energy consumed by pumping systems is responsible for a major part of the overall electricity bill In some cases the energy is used quite efficiently in others it is not Facility operators may be very familiar with pumping system equipment controllability reliability and availability but only marginally aware of system efficiency There are some good reasons to increase that awareness As budgets shrink and the intensity of both domestic and international competition increases the pressure to find additional methods to reduce operating costs will grow The reliability of pumps correlates with their efficiency that is pumps operated near their design or best efficiency point will tend to perform more reliably and with greater availability More frugal and efficient use of the earth s limited natural resources is essential The cost of energy consumed by pumps usually dominates the pump life cycle cost Many end users already strained to support day to day facility operations lack the time and resources to perform a methodical engineering study of the many pumps within their facilities to understand their associated energy costs and the potential opportunities for energy savings Under the auspices of the United States Department of Energy s USDOE Motor Challenge Program screening guidance documents and computer software have been developed to help end users consultants and equipment distributors recognize both qualitatively and quantitatively pumping system efficiency improvement opportunities A key element in the Motor Challenge optimization strategy is to encourage a systems approach

to how motors drives and motor driven equipment are engineered specified operated and maintained by industry Because pumps have been identified as the single largest end use application accounting for 25% of motor systems energy use in all manufacturing industries in the United States they are a natural target in any effort to improve motor driven systems energy consumption The general thesis of this approach is that it is more important to gain a measure of the overall system efficiency or effectiveness than to focus on individual components The elements that comprise the systems approach and their general order of review in reverse sequence are ultimate system goal or purpose piping system pump gear or coupling motor adjustable speed drive if applicable motor starter transformer This paper describes the general methodologies employed and shows a case study example of the screening and software application

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