

# Pump Systems Optimization:

## Energy Efficiency and Bottom-Line Savings

*Host this one-day course to help participants learn how to identify and reduce hidden operation and energy costs.*



### Participants will:

- Identify energy savings
- Increase profitability
- Increase reliability
- Earn seven PDH credits



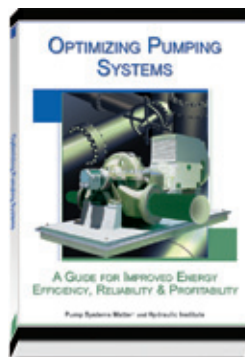
Energy | Efficiency | Economics

# This course helps pump users develop the skills needed to identify significant energy savings opportunities

Attendees of the “*Pump Systems Optimization*” one-day course will gain valuable new skills to help them improve centrifugal pump system efficiency to reduce energy and operating costs while earning seven professional development hour (PDH) credits from the Hydraulic Institute.

## Topics covered include:\*

- Why Efficient Pump Systems Are Important
- Systems Optimization and Improvement Opportunities
- Basic Pump System Interaction
- Screening Pump Systems
- Improving the Performance of Pump Systems
- Life-Cycle Cost Analysis
- Developing an Action Plan
- ASME Pump Systems Energy Assessment Standard (available at [www.Pumps.org/ASME](http://www.Pumps.org/ASME))
- ISO 50001 for Energy Management Systems



**ATTENDEES  
RECEIVE  
A FREE COPY,  
A \$195 VALUE**

\* Positive displacement pumps are not discussed in this course.



# Energy savings of 20–40% are possible

When pump systems are not optimized for best efficiency, they drain corporate profits with higher energy and maintenance costs, shorten mean time between repairs and increase CO<sup>2</sup> emissions. Optimized pump systems are more energy efficient and reliable overall.

To help pump users run their systems more efficiently, a pump system assessment identifies problematic areas where the greatest opportunities for improvement exist.

This one-day course is offered by Pump Systems Matter (PSM), a non-profit (501(c) 3) educational foundation, which was established to educate the marketplace and promote pump systems energy efficiency.

**To help your constituents learn how to identify and reduce hidden operation and energy costs, please call [973.267.9700](tel:973.267.9700), x 216, today. We will provide everything you need to host this proven, highly rated course.**

## **We Make Host Organizations Look Good**

Host the “*Pump Systems Optimization*” course—a cost-effective, turn-key solution—to help your staff, customers, clients and others develop the skills to:

- Identify significant energy savings opportunities
- Improve pump systems efficiency and reduce energy and operating costs
- Create an Action Plan to execute energy conservation initiatives.



# Benefits to Host Organizations

Pump Systems Matter (PSM) provides product-neutral training on pump systems, where qualified instructors share their many years of experience. The course is already tested, proven, and ready for delivery on your chosen schedule. In addition, course materials have already been professionally produced and are ready to be delivered.

- **Utilities** can offer this course as an added value to their business customers. The course also supports market transformation, energy efficiency and rebate/incentive programs.
- **Pump Users** will gain direct benefits within their organization by understanding and implementing existing improvement opportunities.
- **Engineering Consulting Firms** and **Energy Service Companies** (ESCOs) can provide an added service to help their clients reach their energy savings goals.
- **Pump** and **Supplier OEMs** that are training their staff and customers will be communicating the value of focusing on a systems approach and energy management best practices.
- **Associations** can offer this course as a new member service, while creating non-dues revenue for their association.
- **Federal, State** and **Local Government Offices**, along with **Regional Energy Efficiency Organizations**, can use this course as a tool to introduce better energy efficiency practices within their scope and regions.
- **Pump Systems Matter (PSM) sponsors** receive significant discounts on hosting the course.



# Benefits to Participants

- Participants will develop skills to identify a broad range of system improvement opportunities, determine where to focus efforts in their own organization and develop an Action Plan with financial justification. Organizations will quickly see a return on their investment.
- Participants will earn seven professional development hours (PDH) upon completion of this course. The Hydraulic Institute is an approved provider of Continuing Professional Development (CPD) for Professional Engineers. For more information and state-specific details, visit [www.PumpLearning.org/PDH](http://www.PumpLearning.org/PDH).
- This one-day course conveys the importance of energy conservation to pump users to drive change in how they view and operate pump systems. This leads to greater energy efficiency, bottom-line savings and other system improvements.



Host a “*Pump System Optimization*” course for your service territory, key customers, employees, distributors or vendors!

- For host pricing and detailed course information, contact 973.267.9700 x216 or [Education@Pumps.org](mailto:Education@Pumps.org).
- Visit [www.PumpSystemsMatter.org/Training](http://www.PumpSystemsMatter.org/Training) for a complete course description and Frequently Asked Questions about hosting this course.

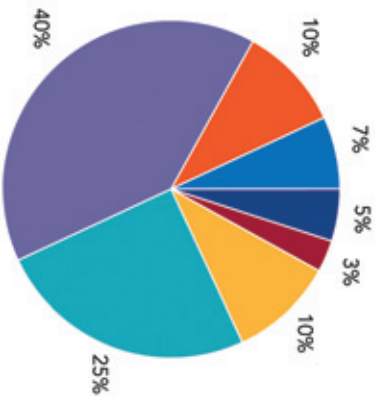


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[www.PumpSystemsMatter.org](http://www.PumpSystemsMatter.org)

# Centrifugal pump systems: Energy savings of 20–40% are possible



A typical life-cycle cost  
for a pump system

