



Technical Paper

Energy efficient pump systems

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Strategies to increase energy efficiency of centrifugal pumps

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Summary

With rising energy cost, process plants are increasing their focus on the amount of energy spent on rotating equipment. Improperly sized or poorly performing pumps are costing companies millions of dollars unnecessarily. Unscheduled repair and poor reliability are causing companies to lose production and spend money on maintenance costs. In many typical pumping systems approximately 50% of the total life cycle cost stems from energy cost. The major factors affecting centrifugal pump performance includes efficiency of the pump and system components, overall system design, efficient pump control, appropriate maintenance cycles and process conditions.