



Pump Users
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Energy efficient pump systems

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Additional energy savings with speed-controlled pumps by optimized impeller trim and adapted switching

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Summary

To reduce the energy consumption in pump applications, all relevant influences to the energy consumption during the operation period have to be seen: Beside the hydraulic efficiency, the motor efficiency and pipe friction losses there are the variable speed drive (with its benefits and additional losses) and the control with the configuration of the control curve.

Additionally the optimized impeller trim (in relation to any selected pump and motor) leads to additional savings of typically 1 .. 5%.

In multipump systems the switch processes of the pumps can be controlled by adapted speed values. This further improvement guarantees, that at each time the optimum efficiency can be achieved.

All these influences are integrated in the selection and sizing process for pumps and pump systems in our company.