

ways to improve the energy efficiency of your pump





AVOID OVERSIZING

At specification, limit adding safety margins to the duty, to ensure actual operation is close to its BEP.

IMPELLER TRIMMING

If a pump is oversized, trimming the impeller is a more cost effective and energy efficient way of reducing the pressure and flow produced by the system than using a throttling valve.



VARIABLE FREQUENCY DRIVES

Reduce energy use of oversized pumps or when there are differing duty requirements at different times, by varying the motor speed to achieve the actual head and flow demand, rather than what the pump is capable of producing.



PARALLEL PUMPING SYSTEMS

When maximum conditions are a lot higher than normal operating demands, install a smaller, second pump to relieve the larger pump from operating far below its capacity and away from its BEP.



LIMIT PIPEWORK PRESSURE LOSS

Reduce friction by minimising bends, optimising pipe diameter/length and installing low pressure drop valves.



ELIMINATE

UNNECESSARY USE Implement control systems to shut down pumps when not required.



MAINTENANCE worn wear rings to reduce leakage inefficiencies.



