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Continuous Pump Performance Monitoring -where are the savings?

Continuous monitoring, 24/7, provides significant savings in energy and maintenance costs compared to spot checks with portable equipment. This is particularly the case for Water Utility pump stations, where multiple pumps often run in parallel.

Pump	Efficiency %
1	81.6
2	81.3
3	87.6
4	83.9
5	89.1
6	86.4

Here's some data from a pump station using our MicroPM Pump Monitors, where each pump typically consumes about 2 MW. There is nearly an 8% difference between minimum and maximum pump efficiencies.

Typically, only 3 or 4 pumps are run at once. The 3 most efficient pumps have average 87.7% efficiency compared with average 82.3% efficiency for the least efficient pumps.

Operating the most efficient pumps can lead to substantial savings!

At the pump station level, our Micro Station Analyzer uses data from each MicroPM Pump monitor to advise the best combination of pumps to meet the demand flow rate at the lowest cost.

Continuous monitoring also identifies issues like excessive wear, cavitation, and valve problems without delay, which is crucial for higher power pumps. Many clients now use portable equipment only for lower power pumps and have switched to continuous monitoring for their higher power pumps.