Saur: Val D'Europe Nord Pumping Station Potential Savings Available via optimisation of Pumping Schedule & Refur

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PUMP MONITORING AND OPTIMISATION

WHY OPTIMISE?

Permanently installed technology



DELIVER CRITICAL OBJECTIVES:

Minimise Energy Consumption Maximise Reliability Prioritise And Target Maintenance Optimise Operating Regime

WHY OPTIMISE?

Permanently installed technology

PROVEN TECHNOLOGY

- Methodology to international standards BS EN ISO 9906 & ISO 5198
- Typical Accuracy of Efficiency ±0.5% and Flow rate ±1.0%
- All sensors calibrated to international standards
- Measurements not impacted by site factors
- Real-time monitoring of all parallel pumps in each system [permanently installed]
- Safe and simple wired or wireless installation

PRIMARY MEASUREMENTS

- Suction temperature (mK)
- Discharge temperature (mK)
- Suction pressure (m)
- Delivery pressure (m)
- Electrical power (kW)

REAL-TIME DATA

- Pump efficiency (%)
- Motor power (kW)
- Flow rate (MLD)
- Pump head (m)

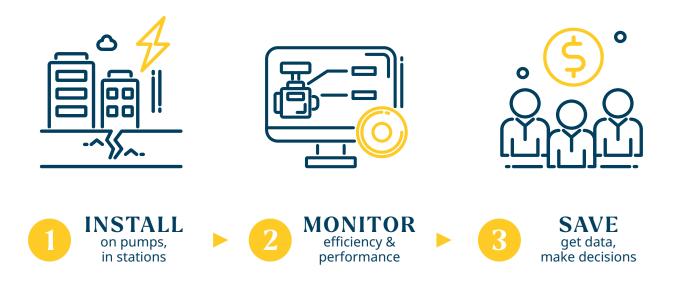
PROVEN DELIVERABLES

- Pump refurbishment business case
- Detect Pump wear & cavitation
- Oversizing & impeller trim requirements
- Measured system curve
- Benchmark current operating regime
- Identify optimum operating regime [pump schedule]
- Real-time trending, reporting & operational monitoring via HydraNet platform

KNOW WHAT'S HAPPENING IN YOUR PUMP

Pump Monitoring and Optimisation enables whole life cost to be minimised for high energy pumping systems. Plan maintenance and optimise pump operation to always meet demand at least cost.

READY TO GO IN THREE EASY STEPS:

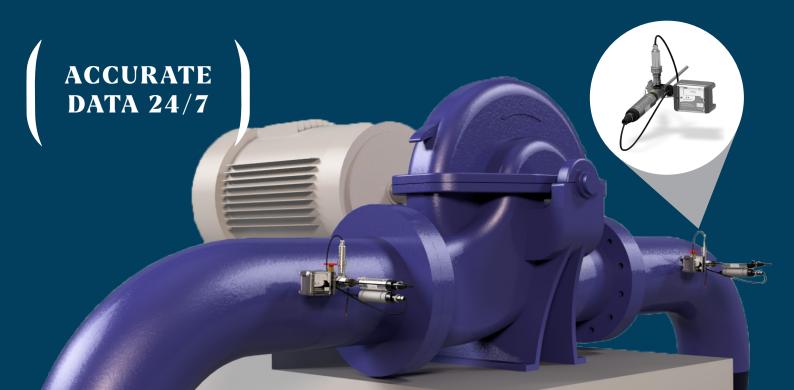




MINIMISE WHOLE LIFE COSTS

Once you've selected your site, our easy to install FREEFLOWi4.0 pump monitoring system (as shown below) can be up and running with minimal disruption to operations.

Following installation the pump monitoring equipment will provide real-time data, enabling both pump maintenance intervals and pump operation to be optimised.





REAL-TIME PERFORMANCE DATA

Your real-time data for each asset can be visualised, trended and evaluated, with informationdriven insights highlighting performance issues and supporting decisions. You have the option to have instant data and diagnostics flowing into your SCADA system or cloud platform.

Ours is a game-changing approach compared to traditional instrumentation, where each pump's flow-rate and efficiency is measured to high precision so operational performance is maximised.

HOW IT WORKS:

Our FREEFLOWi4.0 pump monitoring system is permanently installed on-site, directly assessing actual operational performance, continuously gathering data and driving on-going optimisation. It's a complete solution for measuring efficiency across pumps, blowers, fans, and turbines.

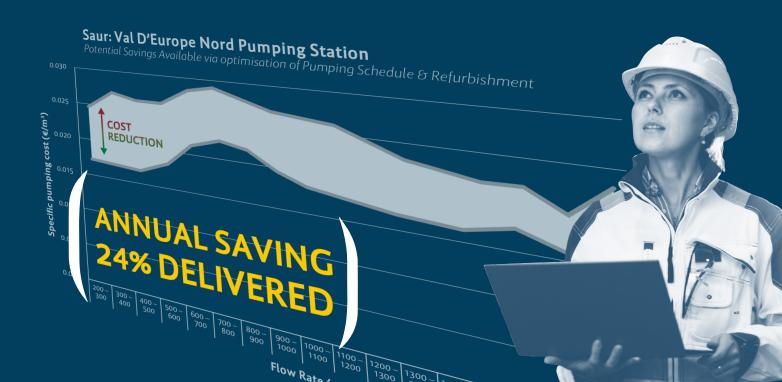




ANALYSIS & RESULTS TO DRIVE SAVINGS

Following deployment, we provide a comprehensive report outlining best practice recommendations, realistic payback calculations and a business case for moving forward – all backed by precision measurement and innovative analytics.

We appreciate payback often relies on the ability to implement recommendations quickly. Here, our consultants can assist with extra workload by helping to liaise with pump suppliers regarding pump specifications for example.



OPTIMISE YOUR UTILITY, ONE STATION AT A TIME

See how Saur let Pump Optimisation as a Service flow through its network, delivering outstanding results

Starting with a station pilot and scaling to 66 stations and an entire network, we achieved a less than 12-month payback for Saur, the multi-national water utility company.

Get in touch if you want to hear more about the work we implemented and how we achieved such amazing results.

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