

Saur: Val D'Europe Nord Pumping Station

Potential Savings Available via optimisation of Pumping Schedule & Refurbishment

part of



saur

mission
water

Specific pumping cost (£/m³)

COST
REDUCTION

TARGET 26% ANNUAL SAVINGS
20% RESILIENCE IMPROVEMENT
ACHIEVE <1 YEAR PAYBACK



riventa

PUMP OPTIMISATION AS A SERVICE

FLEX_MONITORING

WHY OPTIMISE?

Typically, 2-WEEK DATASET per system



DELIVER CRITICAL OBJECTIVES:

**Minimise
Energy
Consumption**

**Maximise
Reliability**

**Prioritise
And
Target
Maintenance**

**Optimise
Operating
Regime**

WHY OPTIMISE?

Typically, 2-WEEK DATASET per system

PROVEN TECHNOLOGY

- Methodology to international standards BS EN ISO 9906 & ISO 5198
- Typical Accuracy of Efficiency $\pm 0.5\%$ and Flow rate $\pm 1.0\%$
- All sensors calibrated to international standards
- Measurements not impacted by site factors

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]
 - Comprehensive PDF report of findings & recommendations
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KNOW WHAT'S HAPPENING IN YOUR STATIONS

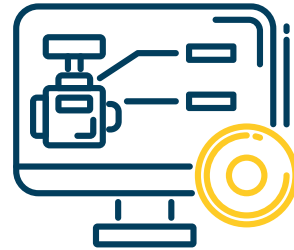
Combining our products and services, Pump Optimisation as a Service removes many of the barriers when considering how to assess pump assets, such as unwanted operational disruptions, perceived on-site safety risks and site staff burden.

READY TO GO IN THREE EASY STEPS:



1

DEPLOY
on pumps,
in stations



2

MONITOR
efficiency &
performance



3

SAVE
make informed
decisions



1

DEPLOY

RAPID, LOW-RISK DEPLOYMENT

Once you've selected your site, our cable-free and easy to install FREEFLOW4.0 pump monitoring system (as shown below) can be up and running in around 1 hour per pump, at low risk and with minimal disruption to existing operations.

Deployment includes secure on-site pump monitoring equipment to provide real-time data, enabling you to start seeing what's happening in your pumping stations for 2-weeks or longer and across as many pumps as you wish.

**INSTALLED
IN ONE HOUR**



**INSTALLED
IN ONE HOUR**

**INSTALLED
IN ONE HOUR**

2

MONITOR

LIVE PERFORMANCE MONITORING

Once in place, real-time data for each asset can be evaluated, with information-driven insights highlighting performance issues and supporting decisions. You have the option to have a PDF summary report or instant data and diagnostics on our cloud platform.

Ours is a game-changing approach compared to a traditional test, during which pumps are measured in turn, or limited findings achieved by using SCADA history and OEM pump curves.

HOW IT WORKS:

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

**REAL-TIME
DATA
COLLECTION**



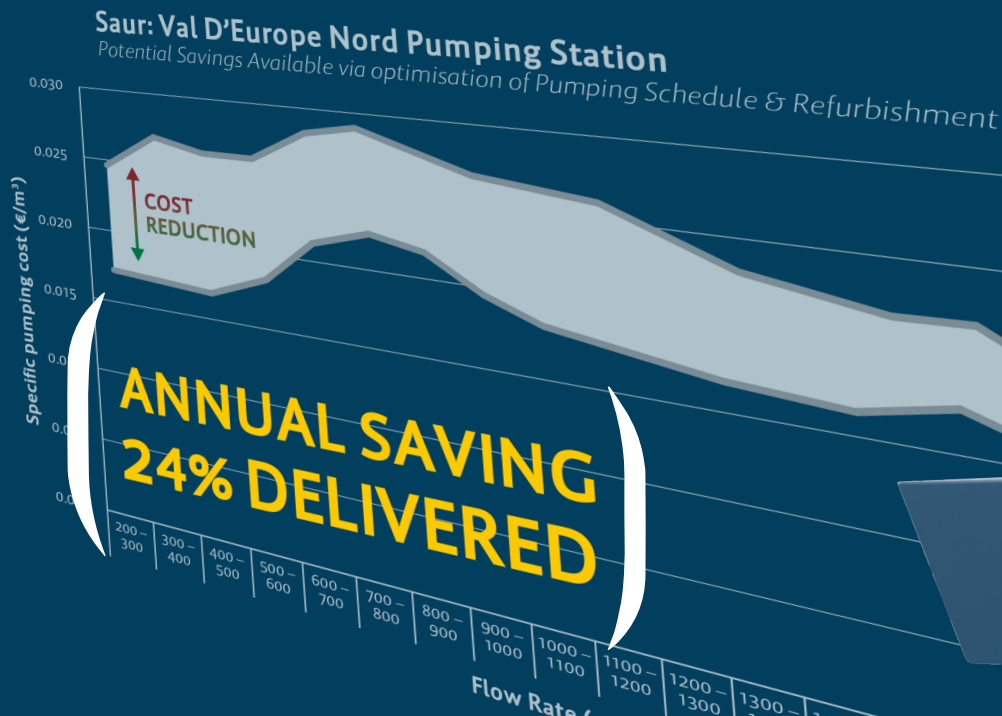


SAVE

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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