

A wide-angle photograph of a water treatment plant. In the foreground, a concrete walkway with yellow metal railings runs alongside a large aeration tank. The water in the tank is turbulent, with white foam and brownish-yellow sludge being churned up by circular diffusers. In the background, several large rectangular aeration tanks are visible, each covered with a blue corrugated metal roof. The sky is clear and blue, and some greenery is visible in the far distance.

VROC<sup>™</sup>

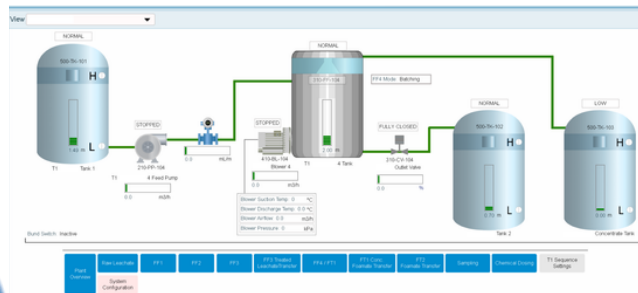
# Optimising Water Treatment Plants

THROUGH IOT AND AI TECHNOLOGY



# Remote Plant Management for Enhanced Efficiency

VROC's OASIS platform enables water treatment operators to optimize plant performance through remote monitoring, control, and automation. Reduce costs and improve efficiency with data-driven insights.



## Key Benefits:

- **Remote Accessibility:** Monitor, control, and automate your plant from anywhere, reducing the need for on-site personnel.
- **Real-Time Monitoring:** Gain immediate insights into plant conditions, ensuring smooth and efficient operation.
- **Automated Processes:** Streamline operations, reduce manual intervention, and minimize human error.
- **Early Warning System:** Receive proactive alerts for potential issues, minimizing downtime and costly repairs.
- **Cost Optimization:** Lower operational costs through data-driven optimization and reduced manpower.

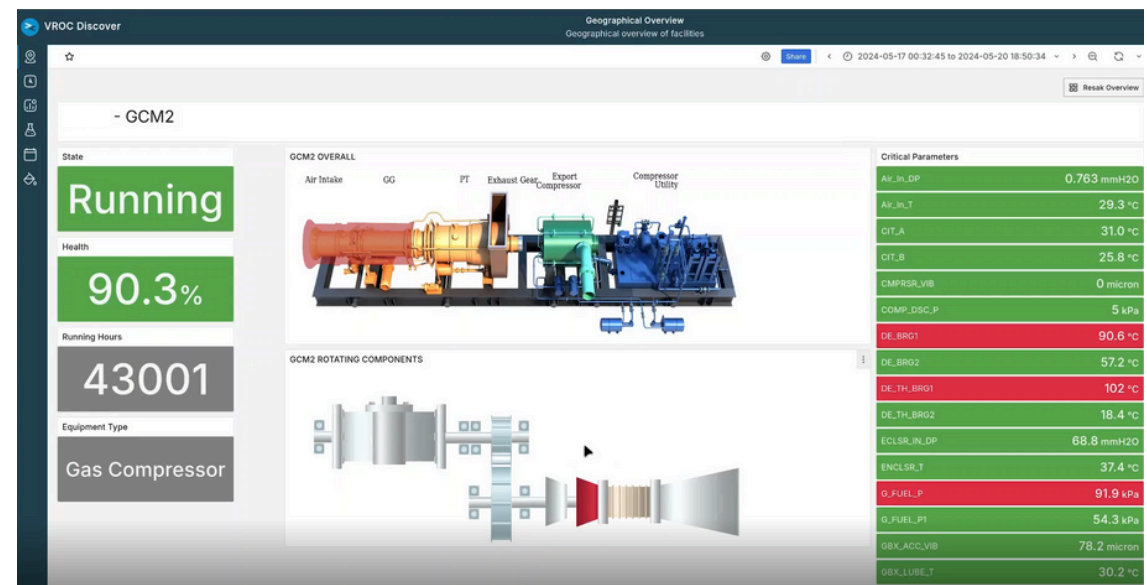


## Predictive Maintenance Powered by AI

VROC's OPUS uses artificial intelligence to provide accurate predictions about the future performance of your equipment. Reduce downtime, minimize maintenance costs, and optimize resource utilization with data-driven insights.

### Key Benefits:

- **Predictive Maintenance:** Anticipate equipment issues and schedule maintenance proactively, preventing costly failures and downtime.
- **Optimized Resource Management:** Reduce unnecessary consumption of consumables and energy.
- **Improved Efficiency:** Enhance overall plant performance and improve production outcomes.
- **Proactive Alerts:** Receive timely alerts for equipment deviations, preventing minor issues from escalating.



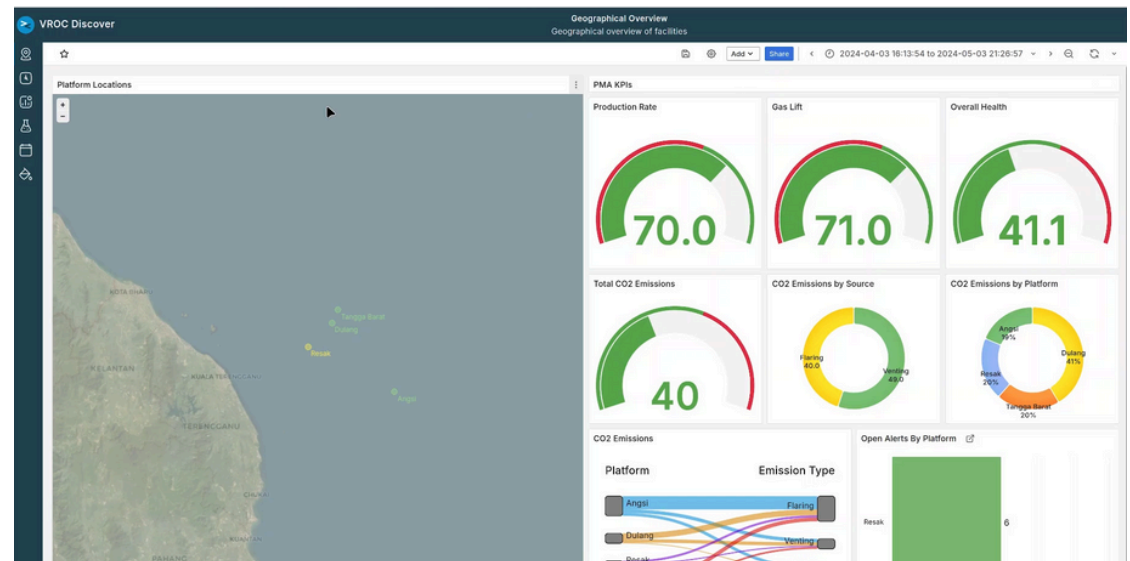


## Centralized Data Platform for Enhanced Decision Making

VROC's DataHUB+ provides a secure and reliable platform for storing, accessing, and visualizing all your operational data, enabling data-driven decisions that drive improvements.

### Key Benefits:

- **Centralized Data Storage:** A single, reliable source for all your operational data, eliminating data silos and ensuring accuracy.
- **Customizable Dashboards:** Track the KPIs that are most relevant to your team.
- **Real-Time Visibility:** Monitor performance in real-time, enabling proactive management.
- **Data-Driven Decisions:** Confidently make informed decisions based on accurate, real-time insights.
- **Scalability:** Easily manage data across multiple sites with a powerful enterprise solution.







# End-to-End Digital Solutions for Water Treatment Plants

VROC provides a comprehensive digital transformation solution for water treatment facilities, integrating sensors, data, analytics, and automation to improve operational efficiency and sustainability.





# Ready to Improve your Water Treatment Operations?

Visit [VROC.AI](https://vroc.ai) to learn more or contact our team at [solutions@vroc.ai](mailto:solutions@vroc.ai) for a personalized consultation.

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