

**WHAT WE DO**

Oryx Data Incubator provides real-time conditional monitoring and predictive maintenance solutions for companies to help them adapt to Industry 4.0.

With our AI-based solution, we extend the use of renewable energy with high-quality standards that anticipate the errors in the system and inform the user in advance, calculate the correct amount of energy production and optimize energy usage.

**WHAT MAKE US SPECIAL**

As Oryx Data, we care about the world, energy, and the people. We try to protect nature and future generations by producing alternative autonomous solutions in the industry, considering the unique needs of our customers. We meet your needs with:

- End-to-end predictive maintenance tool, easy to install (within minutes)
- Providing an "easy to adapt" solution to any sector if needed
- Optimization of processes/energy consumption with the help of AI-based algorithms
- Low investment and operational cost



REFERENCES



**Efficiency calculation of the product lines.**

- Determination of Machine Allocation Plans and Camera Viewing
- Image Processing and Efficiency Analysis

★ **Result:**

- Downtime reasons and inefficiencies of the machines monitored and analyzed in real-time. **The production efficiency increased 25%** with the actions
- Reduced unnecessary spare parts and employment costs with maintenance planning focused not only on time but also on costs



**Possible energy leak detection on compressed air lines and optimize processes**

- Current Situation Analysis & Productivity Enhancing Recommendations
- Creation of Digital Twins, Online Monitoring and Analytical Services
- Optimization of Compressed Air System

★ **Result:**

- Compressed air was kept at an optimum level by instant monitoring and control. **An annual improvement of US \$105,000 (30%)** in the current cost of compressed air energy has been achieved



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**Orhan Holding**

**Efficiency calculation of the product lines.**

- Real-time data analysis of furnace data for detection of anomalies
- Optimization of energy consumption by changing furnace control mechanisms.

★ **Result:**

- The inefficiencies of the furnaces were revealed by modelling the collected data with machine learning algorithms and detailed analysis. As a result, **34% energy savings** were achieved

**GROUPE RENAULT**

**Detection of potential problems which occurs in production lines at Renault's factories in advance.**

- Data classification and learning
- Realtime data collection and comparison
- Prediction of possible malfunctions

★ **Result:**

- **83% of prediction of possible problems** on the machines



Le réseau de transport d'électricité

**Supervision of the electricity network in real-time and proposing real-time predictive maintenance algorithms .**

- Implementation of a new "real-time" datalake for electrical network of France

**Result:** Ongoing project