

Our Solutions

01 ML/AI-Powered Process Control	02 Process Optimization
03 Quality Control & Optimization	04 Energy Optimization
05 Sustainability Solutions	06 Asset Management
07 Predictive Maintenance	08 Forecasting & Prediction
09 Custom AI Models	10 Digitalization Consulting

Why AIFACTOR?

Engineering expertise meets industrial intelligence.



Deep Process Understanding

AI solutions designed around real industrial processes and operating constraints.



Integration with Existing Systems

Practical implementation that works with established industrial infrastructure.



Solutions Built Around Results

Focus on process performance, resource efficiency, reliability, and measurable outcomes.



Scalable Industrial AI

Solutions that evolve with operational needs, data maturity, and business objectives.

Industries We Serve



Fertilizer & Chemicals



Oil & Gas, Refinery, Petrochemicals



Energy & Utilities



Manufacturing & Processing



Water & Wastewater



Mining & Heavy Industry

About Us

AIFACTOR Inc. combines industrial engineering expertise with artificial intelligence and advanced analytics to help process industries optimize operations, improve asset reliability, and make smarter, data-driven decisions. Our solutions integrate with existing industrial environments to turn operational data into measurable business value.

We are changing the Process Control Industry by **MAKING THE FUTURE INFLUENCE THE PRESENT.**

Have an industrial challenge?

Let's identify where AI can deliver measurable value.

→ [Book an Industrial AI Assessment](#)



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ENGINEERING INTELLIGENCE FOR INDUSTRY

Engineering Domain Knowledge. Data Science. Measurable Industrial Impact.

Turning Plant Data into Measurable Business Value.

AIFACTOR INC.

We make Future influence the Present

Key Products

AI OPTIMIZATION



Data-driven models that surpass conventional limits for efficiency, quality and cost savings.

Process models Efficiency Cost savings

AI OPTIMIZATION



Real-time optimization of boilers, turbines and fuel streams.

Demand forecasting Load optimization

Live advisory

SUSTAINABILITY & CARBON



Energy (SEEC), sustainability and carbon neutrality in one platform.

ISO 50001 (EnMS) ESG reporting

Outsourced service

DIGITAL OPERATIONS

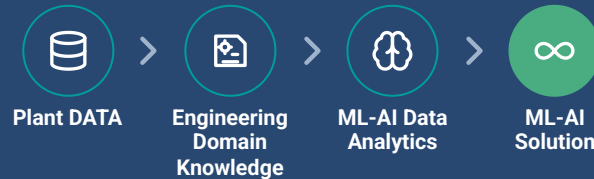


Digital field log sheets, log books and permit to work.

Shift logs Permit to work IP21 · PI · SAP

We fuse ENGINEERING DOMAIN KNOWLEDGE with DATA SCIENCE

Turning PREDICTIONS into DECISIONS and DATA into ACTION



- ✓ Consistency
- ✓ Proactive Quality Control
- ✓ Productivity
- ✓ Predictive maintenance
- ✓ Efficiency
- ✓ Demand Forecasting & Inventory Mgmt.

We help our Clients REALIZE their HIDDEN POTENTIAL

QUALITY & LAB MANAGEMENT



QA laboratory management for traceability and quality assurance.

Samples & reports Inventory ISO 17025

OPERATIONAL INTELLIGENCE



Turn raw plant data into actionable insights with real-time monitoring.

Real-time monitoring Data integration Dashboards

Key Projects

From Process Data to Precise Control

- AMMONIA** Ammonia Plant Real-Time CO₂ Slip Prediction & Optimization
- NP FERTILIZER** Real-Time NP Fertilizer Product Quality Prediction & Closed-Loop Control
- REACTOR** Real-Time Reactor Outlet Impurities % Prediction & Control Advisory
- PVC** PVC Plant Multiple Batch Reactors Composite Sample Analysis Prediction and Development of Sweet-Spots for Process Variables to Achieve Golden Batch
- UTILITIES** Fuel Optimization at Utilities Plant with Multiple Gas Turbines & Boilers through Performance Prediction and Process Advisory
- CEMENT** Cement Plant Kiln Fuel Optimization

Featured: Slip Optimization Project

CHALLENGE Keeping slip within the required operating range at a 600K Tons Ammonia Plant.

AI SOLUTION Custom AI to predict and optimize slip, giving operators actionable insights and control.

RESULT **117% gain** in phosphate consumption (Control Band 19.8 – 20.2%)
100% compliance (Spec Band 19.5 – 20.5%)
3 soft sensors: real-time CaO, P₂O₅, NO₃-N

