Improving Machine Uptime & Efficiency

Industry: Energy & Utilities

Client: Heavy Equipment Manufacturer, Turkey

The Challenge

- ✓ Frequent breakdowns & pressure leaks
- ✓ Inconsistent actuator response
- ✓ High energy use
- ✓ No predictive insights

Our Approach

- ✓ Sensors for pressure, temperature, and flow
- ✓ Real-time diagnostics via edge units
- ✓ AI for anomaly detection
- ✓ PLC-based smart control

Key Solutions

- ✓ Live Hydraulic Monitoring
- ✓ Leak Detection Alerts
- ✓ Digital Twin Integration
- ✓ Predictive Maintenance Dashboards

Tech Stack

Modbus | SIEMENS | python | scada | MATLAB

Impact Summary

Metric	Before	After
Equipment Downtime	5–6 hrs/week	<2 hrs/week
Valve Replacement	Every 4 Months	Every 9 Months
Leak Detection	Manual	Automated
Energy Consumption	Unoptimized	35% Reduced

Results at a Glance

50%	2X	80%	35%
less downtime	longer valve life	early fault detection	energy savings

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