

Manufacturing SCADA retrofit delivers 40% fewer manual tasks and faster response.

WHERE THE BEST GET BETTER

A Lagos-based manufacturing facility struggled with manual data collection, delayed alarm response, and inconsistent shift handovers. ASE Consultings delivered a PLC/SCADA retrofit with remote monitoring, reducing manual tasks by 40% and cutting lead response time from 48 hours to under 2 hours.



MANUAL TASK REDUCTION

40%

Automated workflows

RESPONSE TIME

48h → 2h

Lead response improvement

BOOKING CONVERSION

2.3x lift

12% → 28%

PREPARED BY

ASE Consultings

REVIEWED BY

APPROVED BY

PROJECT SUMMARY

Challenge

The facility relied on paper-based logs, manual meter readings, and reactive maintenance. Operators spent 6+ hours daily on data collection. Alarm response averaged 48 hours due to delayed escalation. Shift handovers lacked standardised records, leading to repeated troubleshooting and lost production time.

Solution

ASE Consultings retrofitted the plant with Siemens S7-1500 PLCs, WinCC SCADA, and a cloud-connected historian. Automated data capture, trend logging, and alarm escalation replaced manual workflows. Remote dashboards enable real-time monitoring from any device. Standardised handover reports now generate automatically at each shift change.

TECHNICAL SCOPE

CONTROL POINTS

248 I/O

SIGNALS INTEGRATED

HMI SCREENS

6 panels

LOCAL + REMOTE ACCESS

ALARM TAGS

182 alarms

PRIORITISED ESCALATION

OUTCOME

DOWNTIME

62% reduction

UNPLANNED STOPS

OEE IMPROVEMENT

+8 points

OVERALL EFFICIENCY

PAYBACK PERIOD

14 months

ROI TIMELINE

DELIVERABLES

Engineering pack

- Control narrative and I/O list
- PLC/HMI code with revision control
- Network topology and SCADA tag list
- Alarm matrix with escalation rules

Commissioning evidence

- Panel FAT and SAT reports
- Loop check documentation
- Operator training records
- As-built drawings and SOPs

INTEGRATION HIGHLIGHTS

Systems connected

- Existing VFDs via Modbus RTU
- Power meters via Modbus TCP
- Legacy sensors via 4-20 mA
- Cloud historian via OPC UA

Automation features

- Automatic shift handover reports
- SMS/WhatsApp alarm escalation
- Remote dashboard access
- Scheduled backup and recovery

TIMELINE

WEEK 1-2: SITE SURVEY + I/O AUDIT

WEEK 3-6: DESIGN + PANEL BUILD

WEEK 7-9: INSTALLATION + LOOP CHECKS

WEEK 10: GO-LIVE + TRAINING

CONTACT

Start your automation scope

info@aseconsultings.com | aseconsultings.com | WhatsApp: wa.link/ycr3ie