

INOIX GLOBAL SOLUTIONS – CED Plant

Complete Industrial Electrical & Automation Implementation

Industry

Industrial Manufacturing &
Surface Treatment

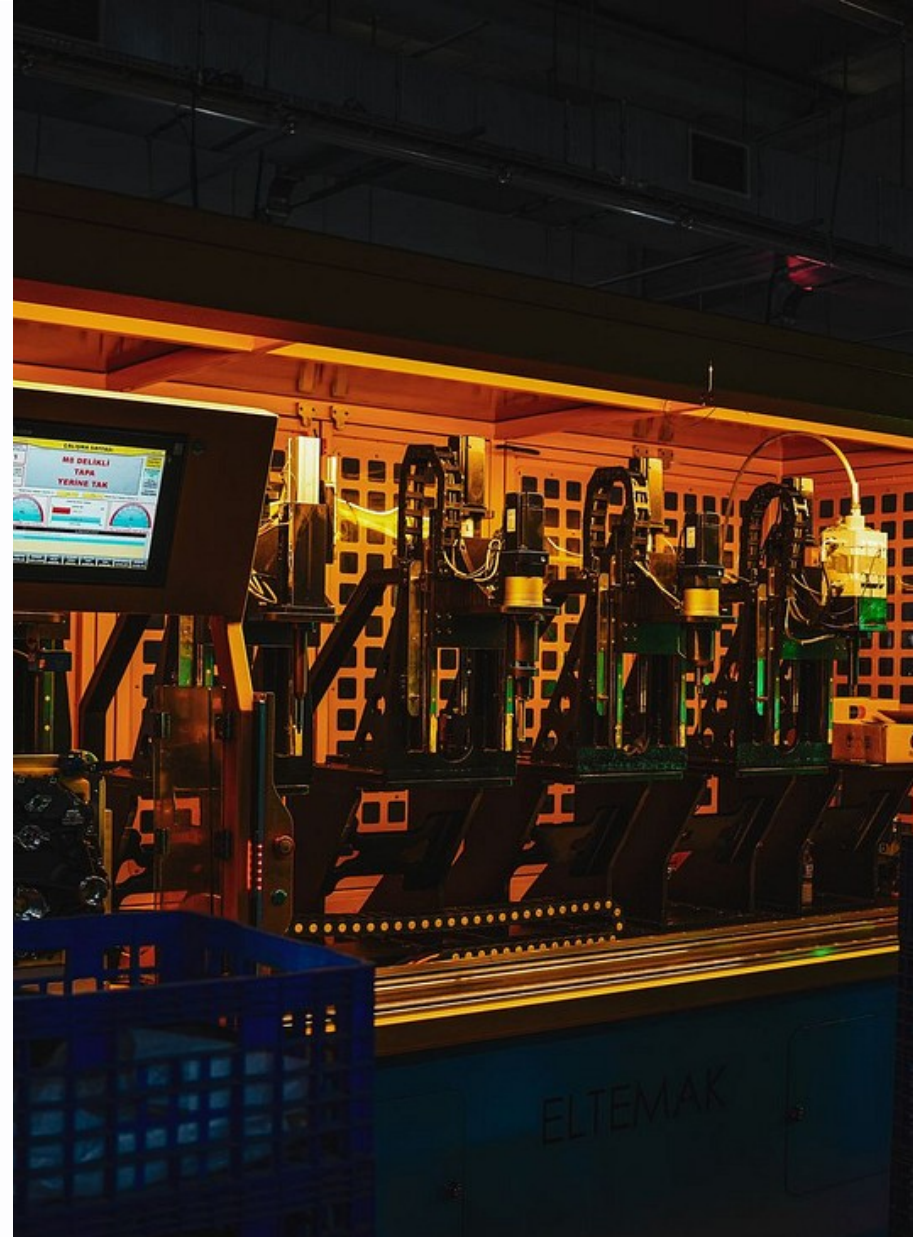
Application

CED Coating Process

Project Type

Complete Plant Electrical & PLC Automation

NexTurner Technologies Private Limited



Challenge & Requirement

PROJECT CHALLENGE

From Disconnected Operations to Structured Control

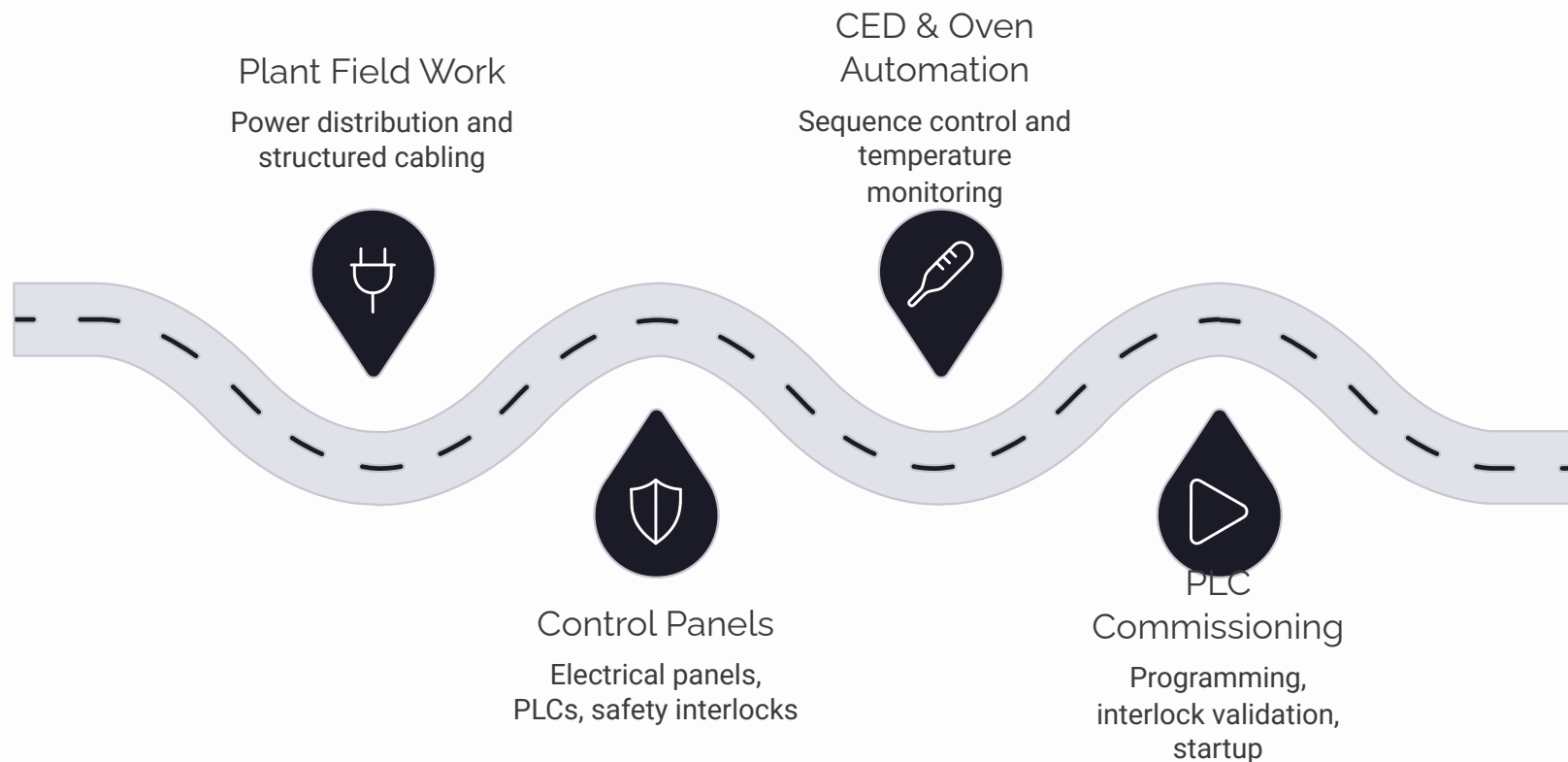
The INOIX CED plant required a complete transformation – from fragmented, manually dependent operations toward a reliable, centralized automation architecture.

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|--|--|
| → Structured Plant Electrical Infrastructure
No formal power distribution or cabling architecture in place | → Centralized Equipment Control & Coordination
Equipment operated independently with no unified control logic |
| → Safety Interlocking & Fault Protection
Critical safety dependencies were unenforced, exposing equipment and operators | → Reliable & Scalable Automation Architecture
Foundation needed to support future digital expansion |



NexTurner's Solution & Implementation

Field Equipment → Control Panels → PLC Automation → Process Control



Plant Electrical

Complete infrastructure & power distribution

Control Panels

Safety interlocks, protection & PLC panels

CED & Oven Automation

Coating sequence & temperature control

Testing & Commissioning

Full system validation & plant startup

Project Outcomes

Centralized Equipment Control

All plant equipment coordinated from unified control panels
— eliminating isolated, ad-hoc operation

Consistent Process Automation

Automated CED coating sequences and oven operation
deliver repeatable, reliable process outcomes

Reduced Manual Dependency

Automated sequences minimize operator intervention and
reduce exposure to human error

Safety-Critical Interlocking

Equipment interlock logic enforces critical dependencies —
protecting personnel and assets

Real-Time Fault Detection

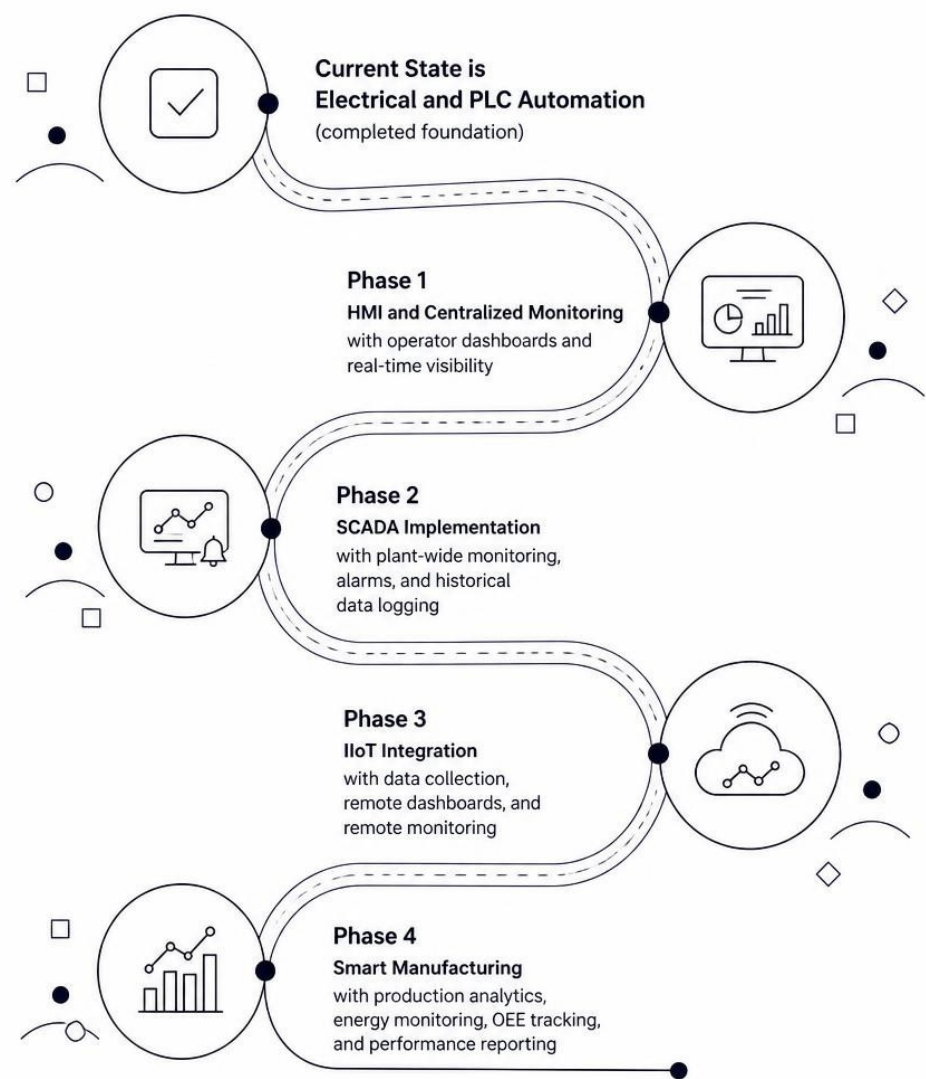
Fault identification and alarm handling enable rapid
diagnostics and structured troubleshooting

Scalable Digital Foundation

Structured automation infrastructure ready for HMI, SCADA,
and IIoT expansion

From Plant Automation to Smart Manufacturing

Future Implementation Roadmap



COMPLETED

Current: Electrical + PLC Automation

A robust, structured automation foundation has been commissioned and validated – the platform for all future digital layers.

Building the foundation for connected and intelligent manufacturing operations.

01

HMI & Centralized Monitoring

Operator dashboards and real-time plant visibility

02

SCADA Implementation

Plant-wide alarms, trending, and historical data

03

IIoT Integration

Connected sensors, remote dashboards, and monitoring

04

Smart Manufacturing

OEE, energy monitoring, and production analytics

Empowering INOIX's Future

NexTurner Technologies is proud to be part of INOIX's journey toward a more connected, intelligent, and future-ready manufacturing environment.

