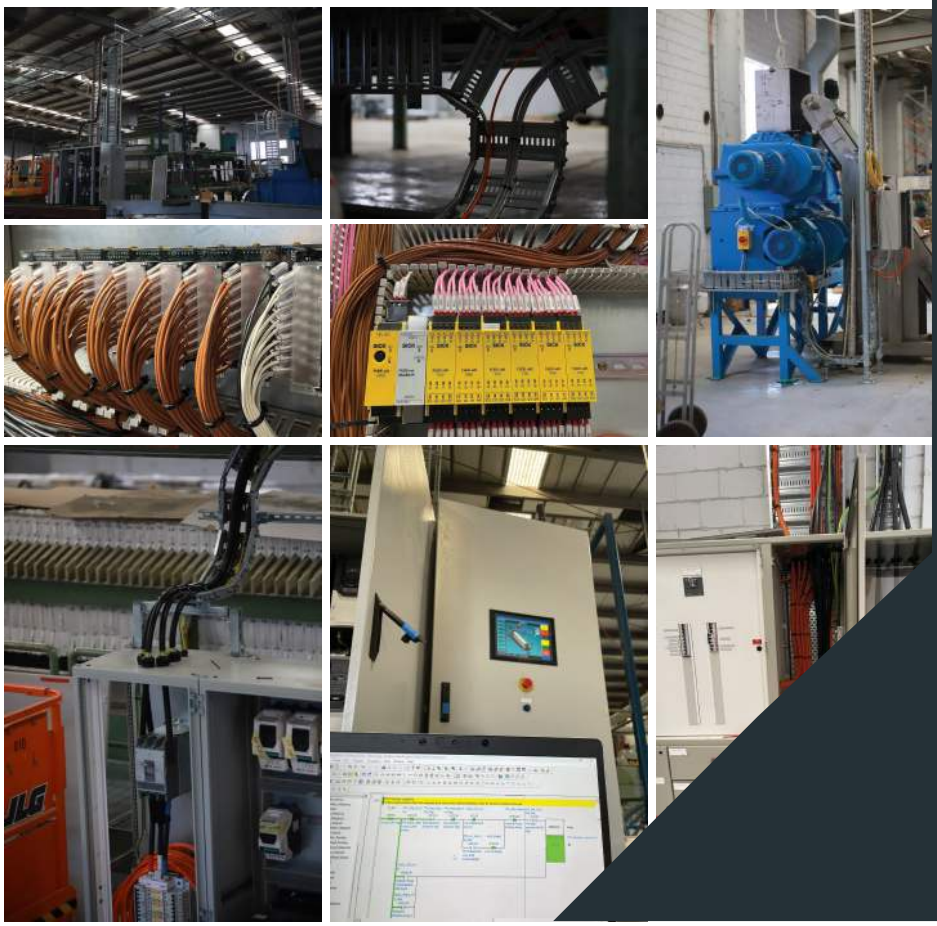

LESLIE ELECTRICAL SERVICES

CASE STUDIES

Processed Materials Manufacturing

Industry: Clay Manufacturing Facility
Duration: 10 months
Value: $1.35 Mil

The Situation

Our client engaged us to transform imported clay block manufacturing equipment into a compliant, efficient, and fully operational production facility. The machinery arrived outdated and unsuitable for use within Australian standards, lacking compliant electrical systems, automation functionality, safety controls, and integrated production capability.

Without significant electrical and control system redesign, the plant could not be legally commissioned, safely operated, or scaled to meet production demands. A complete engineering and compliance overhaul was required to bring the facility up to modern Australian industrial standards.

What We Delivered

- End-to-end electrical engineering, production layout development, and complete compliance documentation
- Design and construction of a custom MSB and 5-chamber MCC for integrated plant-wide power distribution and control
- Complete automation system for mixing, pressing, and pugmill operations, including PLC programming and control integration
- Distributed remote I/O network with engineered cable management for safe, and efficient installation
- PLd Category 3 functional safety systems, safety PLC integration, and plant electrical risk assessment
- Design and implementation of an EPA-approved effluent management system
- Provided ongoing reporting and a long-term maintenance plan

The Result

A compliant, fully integrated manufacturing facility delivering reliable production output, improved operator safety, and scalable automation, commissioned on time as a $1.35 million end-to-end electrical and control system transformation.

40%+

efficiency increase through full automation

Reduced manual handling and operational labour costs

Created a scalable platform for future automation upgrades

BOOK A SITE VISIT

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