



MATRIX INTERNATIONAL (UK) LTD.

SPECIAL ELECTRICAL POWER GENERATION & DISTRIBUTION  
STANDARDS & CONSIDERATIONS

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## Electrical Power Generation , Distribution & Supply

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## **1 Electrical Power Distribution & Supply Specific Standards**

### **1.1 The ISO ICS 27.1 Standard**

ISO ICS 27.1 covers Power stations in general including Nuclear power plants, Hydraulic power plants, Solar power stations and Wind turbine systems.

### **1.2 Implementation**

To enable these improvements, ISO 22000 operates in a loop of what can be abstracted to Leadership → Planning → Support → Operation → Performance → Evaluation → Improvement which then loops back round to the Leadership to implement such improvements for the next iterative cycle.

### **1.3 Limitation and Extentions**

Despite a generalised standard, each implementation is different. Hence Matrix develops a specific mode of operation specific to each task borrowing from other complementary standards which may apply to the system aswell as incorporating any standard the customer requests.

This ensures effective work beyond the minimum of the international Electrical Power Generation Standards.

## **2 Electrical Power Generation Integration Concerns**

### **2.1 Existing Computer Systems & Protocols**

An Electrical Power Generation industrial control system must interact with other computerised systems. Integrating with these seamlessly can often require adapting to and understanding said bespoke systems.

Hence, Matrix employs a Agile stratgy of work with development operations being flexible to fit around specific or changing customer requirements.

### **2.2 Maintenance & Support**

The Electrical Power Generation is a demanding one, inso far as it operates 24/7.

To Aid such operation, Matrix offer increased computerised maintenance protocols and 24/7 support for all implementations aswell as an extensive method statement portofilio for each project which is delievered along with each implementation to aid on site maintenance work to tackle common issues.

### **3 Upgrading & Adapting & Analysing**

As with most industires, the Electrical Power Generation industry is everchanging.

To help improve systems, Matrix offers an integrating analysis platform with each product so that the customer can track quality management as per the international standards independantly of Matrix.

This aids the customer in planning upgrades and seeing where one would be benefical. With Computer APIs, rigourous documentation and build in extensibility, upgrades are easy to be do internally or from any external vendor.