

ENERGY FACILITIES MANAGEMENT & CONTROL

Modern building and plant infrastructure requires advanced energy control and management systems to deliver reliable, uninterrupted and efficient electric power to the desired users. Welcon Technologies has the expertise and highly experienced personnel to:

- Develop system **control strategies** to meet client expectations for new or existing plants;
- Design **customised solutions** to deliver these strategies using best-fit technologies;
- Interface with power authorities to maximise **power supply reliability**;
- Program, configure, test and fully commission the systems to ensure **reliable long-term operation**.

ALTERNATIVE ENERGY SYSTEMS

Welcon can design and assist in the implementation of alternative energy systems, both on and off grid.

A number of control systems can be used to operate the installation incorporating PLCs, OEM Controllers, Synchronisers, Automatic Transfer Switches, Intelligent Switchboards, UPSs, HMIs and SCADA. Solutions that deliver full functionality and reliability can be tailored to the particular site requirements and your budget.

Services include:

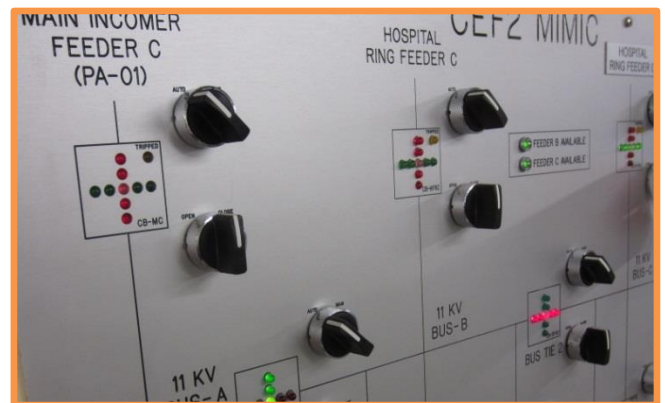
- Design & Functional Specification
- Programming & Configuration
- Procurement & Installation
- Testing & Commissioning
- Ongoing Support



CRITICAL ENERGY SYSTEMS

We have significant experience in Critical Energy Systems for facilities such as hospitals, surgeries, commercial buildings and plant control rooms.

Off grid solutions enable an alternative supply to be initiated during designated abnormal situations allowing maintenance of supply to critical users.



AUTOMATIC CHANGEOVER

The Protection and Control System is the heart of any power supply network and is responsible for a multitude of operations to effectively and consistently deliver reliable power.

As well as seamless and automatic changeover to a standby system, the control system must also automatically manage the return to normal power when the abnormal condition has been rectified.

LOAD SHARING

During normal operations and abnormal situations, the control system must manage the network loads to suit the system capacity available.

Where required, the control system can manage critical loads, essential loads and non-essential loads, with load shedding functions to suit.

INDEPENDENT EXPERTISE

Welcon Technologies is proudly vendor independent. We will recommend and implement the best solution to meet your needs, based on your specific criteria.

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