



# ENERGY SOLUTIONS

**AYJAY**  
GROUP





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## ELECTRICAL INSTALLATION SERVICES

Energy efficiency and sustainability are key issues in business operations, planning and policy processes. Business can now control energy usage and monitor consumption to save money on rising energy bills.

At Ayjay Group our intentions are clear. With energy prices ever increasing we want to offer our customers various energy solutions to help reduce unnecessary costs.

Through continual training and development of our staff, investment in new technology, and ongoing research in new energy solutions, Ayjay Group strives to continually improve electrical energy services.

We can carry out a thorough survey to analyse the areas that are best suited to monitor energy inefficiencies or over-usage, resulting in a reduction to your energy bill.

We are committed to working alongside our customers to deliver energy focussed consultancy advice, design, installation, and after-care support.

### Our Service Solutions

- Refrigeration & Air-conditioning Energy Monitoring
  - Industrial & Commercial Energy Monitoring
    - Customised Control Systems
- Energy Efficient Lighting Upgrades
  - Power Factor Correction
  - Motor Control Systems
    - Voltage Optimisation
    - Consultancy & advice
      - ROI Evaluation
  - Specialist Solutions

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# WHAT WE OFFER...



## Consultancy & Advice

Ayjay Group have the technical and design expertise to provide expert advice and practical solutions to support our customers in implementing the most energy efficient solutions. We can help upgrade existing equipment to meet current legislation and advise on the most energy efficient options, help reduce carbon footprints, find solutions to an existing problem, or just ensure that new equipment is running optimally.



## Lighting Controls

Installation of intelligent lighting throughout your building is cost-effective and energy efficient. From energy saving lighting controls, to modular wiring systems and PIR/ Occupancy sensors, we can work with you to provide reliable, cost-effective solutions.



## Power Factor Correction

We can help you improve your power factor correction which in turn can save you money on your electricity bill, prolong the life of your electrical equipment, reduce losses and improve the overall electrical capacity and efficiency of your electrical infrastructure.



## Temperature Control

We can offer multiple temperature control options for your Refrigeration & Air-conditioning systems.

This can include identifying over-usage of equipment, upgrading existing systems to smart enabled controls, and alarm integration and alerts.

We can also assess the efficiency of your existing equipment and offer an energy saving comparison on upgrades.



## Energy Monitoring

If you suspect your business is over consuming energy or require a comparative consumption report of your equipment, we can provide monitoring devices which offer real-time data analysis 24/7.

The monitoring device can easily integrate with your BMS control system - and also include integrated safety controls.

Additionally, we can retrofit this equipment with updated controls.



## BMS Controls & Integration

We can install a customised Building Management System (BMS) to control and manage your electrical infrastructure to best suit your requirements and maximise your energy savings.

Our system will offer end to end building management via intuitive control, PLC programming software and individual control of electrical circuits.



## Voltage Optimisation

We offer energy saving surveys to determine the most optimal Voltage Management System, enabling finer control and ensuring maximum savings.

We can offer a projected energy saving plan and ROI prior to installation.



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# INSTALLATION CASE STUDY

Ayjay Group are specialists in electrical engineering. Within our field, we are constantly looking to provide energy solutions that match our customers needs offering a bespoke provision to help them create a greener, more energy efficient and cost effective environment.

The following case study looks at a project that involved various solutions to maximise energy savings.

## Overview

We were approached by a UK wide retail brand to work with them to review the effectiveness of their current electrical equipment and install solutions that delivered more energy efficient outputs, including an energy monitoring system for extra control.

The key objectives included:

- Review and update current lighting provision through-out the site, including sensors and controls
- Review electrical refrigeration system
- Report on infrastructure and peak loads
- Install energy monitoring system

## Results

Having surveyed the site and assessed the energy usage, we were able to recommend a set of improvements to deliver a more energy efficient and cost effective solution.

We installed new lighting with PIR occupancy sensors, door alarms, smart controls, and an energy monitoring system, giving the customer an integrated, building-wide improved energy and control resolution.

Advanced building control and remote monitoring has enabled the customer to manage energy and their HVACR assets efficiently, ensuring the infrastructure functions optimally, reducing waste energy costs and improving carbon footprint.

## Observation

Following a survey of the building, we identified improvements required in the following areas:

- Lighting efficiency and usage times
- Excessive heating and cooling over-usage
- Area specific energy management review
- Inefficient refrigeration controls
- Lack of automated controls
- Equipment and system appraisal
- Voltage improvement

## Solutions



Lighting Controls



BMS Controls & Integration



Energy Monitoring



Temperature Control



Voltage Optimisation



Consultancy & Advice

## ENERGY COMMITMENT

Collaborating with customers to deliver energy focussed consultancy advice, design, installation, and after-care support.

