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**GOLDEN RATIO  
ELECTRO-AUTOMATION  
SYSTEMS, INC.**







# ABOUT US.

**GOLDEN RATIO ELECTRO-AUTOMATION SYSTEMS, INC.** is a 100% Filipino-owned electrical equipment supplier, electrical engineering services provider, automation systems integrator, and solutions provider established in July of 2018. Our aim is to provide the industry with a premiere quality and cost-effective products and services coupled with expertise and reliability of technical and after-sales support.

With more than twenty years of experience in the electrical and automation industry, our business tag line says it all...

EXPERTISE. RELIABILITY.

# SERVICES AND SOLUTIONS



- Panel Boards
- SCADA Systems
- Capacitor Banks
- Warranty Services
- Wireless Telemetry
- LV/MV Switchgears
- Automation Solutions
- Motor Control Centers (MCC)
- Power Management Solutions
- Testing & Commissioning Services
- Fabricated & Engineered Controllers
- Manual & Automatic Transfer Switches
- Pump Controllers (Cascade Controllers)
- Energy Saving Audit & Power Quality Analysis



# PRODUCT LINES



Free Standing Enclosures  
Fully Type-Tested Enclosures



ACS Drives  
Variable Frequency Drives  
Soft Starters



Edge, InTouch, System Platform



Allen Bradley Products



Energy Meters  
Gateways  
Current Transformers



Uninterruptible Power Supply



PLC, HMI, VFD, Soft Starter, Circuit Breaker, Control Gears, Flow Meter, Level Transmitter, Pressure Transmitter



Medium Voltage Soft Starters  
Low Voltage Soft Starters



Active Harmonics Filter  
Static Var Generators



Active Harmonics Filter  
Control Transformers



Panel Meters, Relays, Counters, Timers, Selector Switch, Push Button, Pilot Light, Current Transformer, PID Controller



Terminal Blocks, TVSS, Cable Duct, DIN Rail



Filter Fans, Thermostat & Hygrostats,  
Enclosure Lamps



Power Quality Products and Filters



Anybus Gateways  
eWon



Circuit Breakers  
Variable Frequency Drives  
Soft Starters



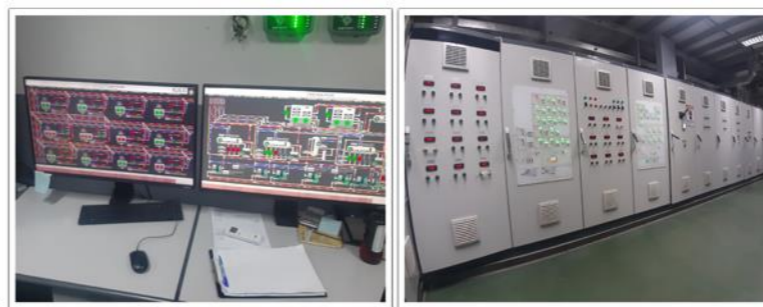
Environmental Monitoring System  
Facility Monitoring Server



Power Quality Analyzers  
Power Monitoring Software  
Power Quality Solutions



# PROJECTS



## Cold Storage Facility

- \* Project located in Mandaue, Cebu
- \* Supply of MCC and PLC panels
- \* Automation using Siemens PLC and AVEVA InTouch system
- \* Cold storage warehouse for different customers



## New Solar Power Control and Monitoring System

- \* Project located in Pasay, Metro Manila
- \* Supply of wall-mounted panel and automation expertise
- \* Automation using Siemens PLC and AVEVA InTouch system
- \* Monitors the electrical consumption from the utility and solar panels across three sections of an area
- \* Balances solar output and utility output since the system does not have battery storage for excess energy output

## 100 MLD Cardona Water Treatment Plant

- \* Project located in Cardona, Rizal
- \* Automation using Siemens PLC, HMI, and SCADA system
- \* Around 200+ MCC panels and 12 PLCs
- \* Utilizes Proxim wireless antenna for the communication of the raw water intake and the water treatment plant
- \* Transforms raw water sourced from Laguna Lake into potable water which will subsequently be distributed across the entirety of Rizal province



## 12 ML Cardona Concrete Reservoir

- \* Project located in Cardona, Rizal
- \* Roughing-ins for the supply and control of motorized valve and level transmitters
- \* Supply of PLC panel
- \* Automation using Siemens PLC and SCADA system



## Environmental Management System

- \* Project located in Makati, Metro Manila
- \* Supply of around 20+ stainless steel wall mounted panels and automation expertise
- \* Automation using Allen Bradley PLC and AVEVA InTouch system
- \* Controls the AHUs to regulate the temperature and relative humidity of the production rooms since the client handles powdered goods



## 15 MLD Morong Bataan Water Treatment Plant

- \* Project located in Morong, Bataan
- \* Supply of MCC and PLC panels
- \* Automation using Siemens PLC, HMI, and SCADA system
- \* Utilizes Proxim wireless antenna for the remote monitoring of its reservoir station
- \* Treated water will be distributed across Subic and Morong, Bataan



## Grain Transfer System to New Feed Mill

- \* Project located in Mactan, Cebu
- \* Supply of MCC + PLC panels and automation expertise
- \* Automation using Siemens PLC and SCADA system
- \* Around 300 meters fiber optic connection used to connect the old grain system to the new feed mill system
- \* Transfer of grains to storage bins



## 50 CMD Baras Sewage Treatment Plant

- \* Project located in Baras, Rizal
- \* Supply of Type-tested MCC panels
- \* Around 10 VFD and 33 DOL motor starters are used to control the pumps, scrapers, blowers, and other motors of the sewage treatment plant



## Production Output Counter Monitoring

- \* Project located in Makati, Metro Manila
- \* Supply of automation expertise
- \* Automation using Allen Bradley PLC and AVEVA InTouch system
- \* Rejects the carton when the barcode detects a bad read
- \* Synchronization of the goods conveyor
- \* Monitors the count of pouches and shippers for the production of powdered goods