

LUNAR TECHNOLOGY LIMITED

Company Profile



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MTR

COMPANY PROFILE

ONE MIDTOWN
11 HOI SHING ROAD

01

OUR COMPANY

- System Integrator in the area of Industrial Automation and Commercial Automation since 1986
- Provides professional services on running the project from start of scratch design, implementation, testing and commissioning which keep running project on time, in budget and to the customer's satisfaction.
- Providing on-time maintenance services.

Authorized VAR of



Agency of Supplier



Customers



Transportation

- Replacement of Tunnel Lighting System and Monitoring and Management Supervisory Systems in the Shing Mun Tunnel
- Replacement of Central Control Monitoring System (CCMS) at Eastern Harbour Tunnel
- Replacement of Central Control and Monitoring System (CCMS) at the Tate's Cairn Tunnel

Oil, Gas & Power

- CLP WENT Landfill Gas Electricity Generation System
- Upgrading of SCADA for Gas Turbine Data Logger in Lamma Power Station

Water & Sewage Treatment

- Sheung Shui Water Treatment Works PLC and SCADA system
- Provision of Electrical and Mechanical Equipment for Kau To Sewage Pumping Station
- Control & Monitoring System for Sai Kung Area Pumping Station

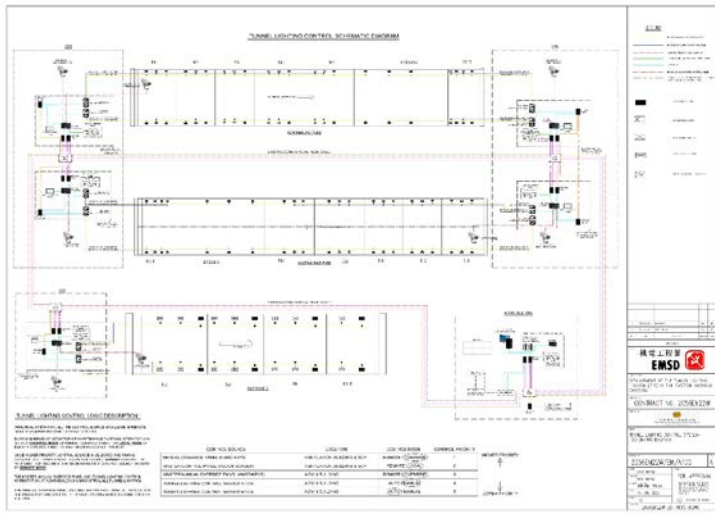
Maintenance & Others

- MTRC Maintenance Service for Tseung Kwan O Line Railway Tunnel & Building ECS and BS Control System
- MTRC Maintenance Service for Lantau and Airport Railway ECS Control System
- Provision of Electronic System Installation, Modification, Repair and Maintenance Works at Various Sewage Treatment Works and their Outstations of Region 1A, 1B & 2

Project Reference - Transportation



02



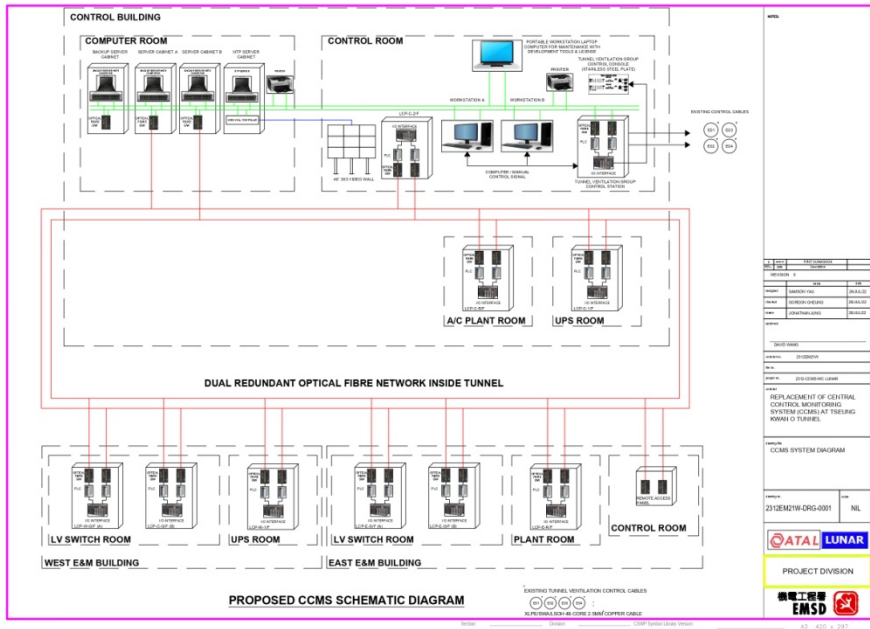
Contract: EM SD 2056EM22W

Replacement of Tunnel Lighting System at Eastern Harbour Crossing

Wing Cheong Electric Engineering & Contracting Co., Ltd.

- 6 sets of Emerson RX3i PLC & I/O module
- Design and supply PLC panels and Manual Override Panel for TLS control
- Develop user-friendly HMI for TLS remote control
- Interface and modify existing CCMS system for new TLS
- Supply and installation of PLC, communication module and accessories to control and monitor all the new Tunnel Lights and TLS related devices





Contract: EM SD 2312EM21W

Replacement of Central Control & Monitoring System at Tseung Kwan O Tunnel

ATAL Engineering Limited

- 20 sets of hot standby Emerson RX3i PLC & I/O module
- Design, supply, install 10 PLC panels for CCMS
- Upgrade and replace the existing SCADA system with user-friendly HMI & faster data transmission
- Open network architecture - redundant 4 fiber optics separated ring network by Cisco
- Supply and installation of PLC, communication module, fiber module and accessories for SCADA to form a complete system



Contract: EM SD 2305EM18W

Replacement of the Traffic Control and Surveillance System in the Eastern Harbour Crossing

GTECH Services (Hong Kong) Limited

- 30+ sets of Emerson RX3i PLC & I/O module
- Design and supply PLC panels for TCSS local control
- Design and supply of Manual Override Panel for Manual Override System of TCSS
- Interface with 3rd party computer system for TCSS under normal condition
- Supply and installation of PLC, communication module and accessories for TCSS to control and monitor all the equipment locally

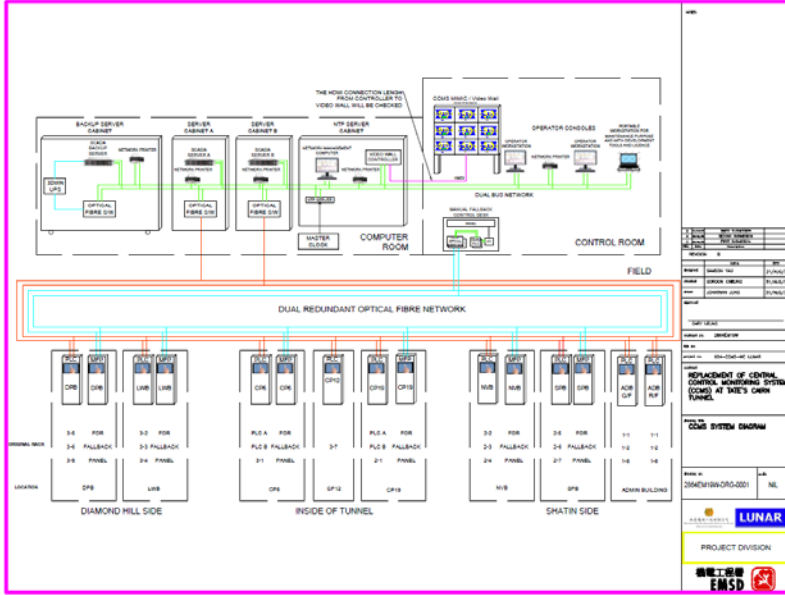


Contract: EM SD 2864EM19W

Replacement of Central Control Monitoring System (CCMS) at Tate's Cairn Tunnel

Wing Cheong Electric Engineering & Contracting Co., Ltd.

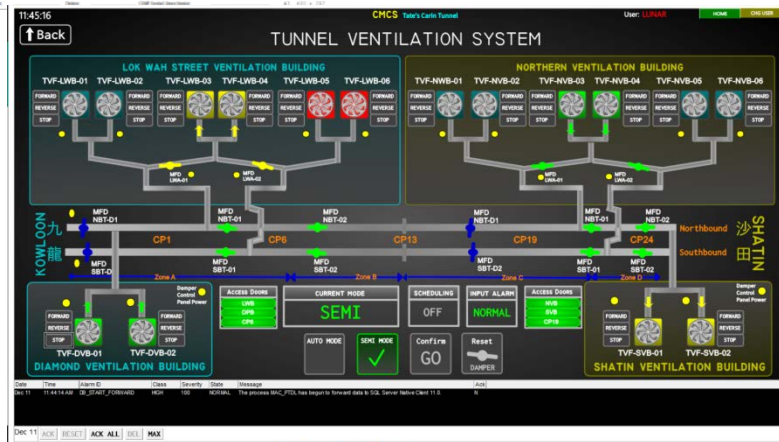
- 32 sets of hot standby Emerson RX3i PLC & I/O module
- Design, supply, install 16 PLC panels for CCMS at the longest tunnel in HK
- Upgrade and replace the existing SCADA system with user-friendly HMI & faster data transmission
- Open network architecture - redundant 4 fiber optics ring network by Cisco
- Supply and installation of PLC, communication module, fiber module and accessories for SCADA to form a complete system

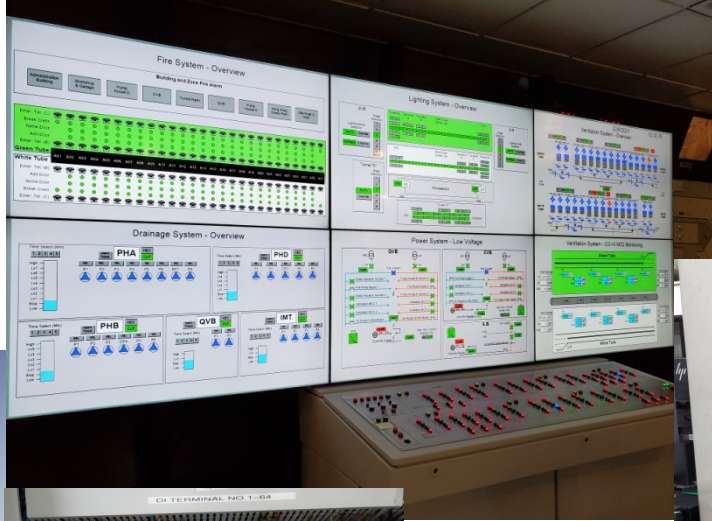


Contract: EM SD 2864EM19W

Replacement of Central Control Monitoring System (CCMS) at Tate's Cairn Tunnel

Wing Cheong Electric Engineering & Contracting Co., Ltd.



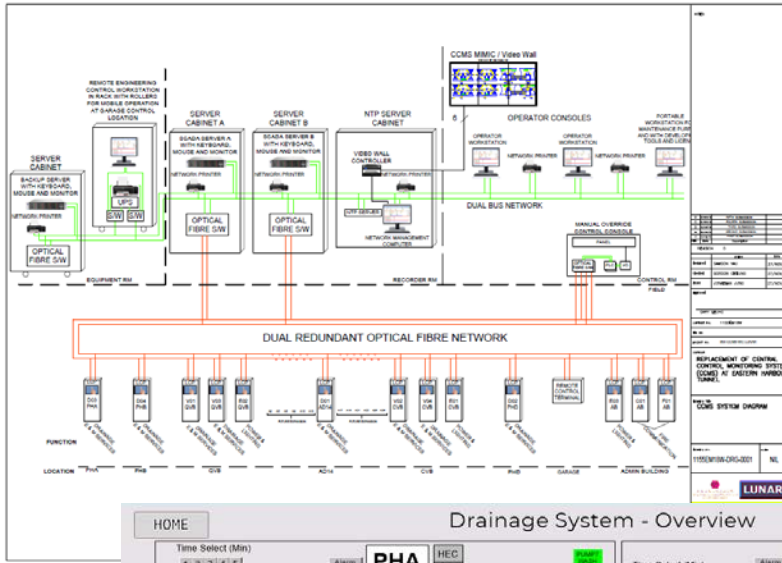


Contract: EM SD 1155EM18W

Replacement of Central Control Monitoring System (CCMS) at Eastern Harbour Tunnel

Wing Cheong Electric Engineering & Contracting Co., Ltd.

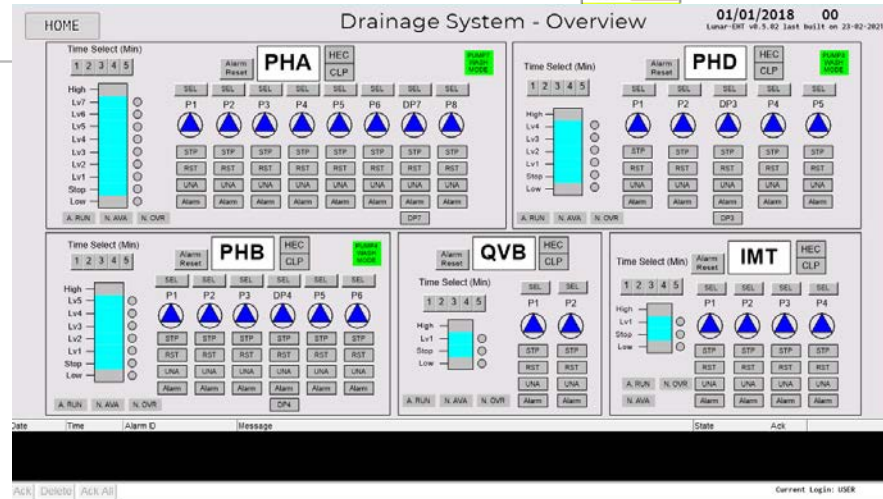
- 28 sets GE PACSystems Rx3i Controller
- Provide PLC/ SCADA programming, panel layout design, system wiring, installation and T&C for 14 panels
- Upgrade the old CCMS performance
- Open network architecture - redundant fiber optics ring network by Cisco providing reliable high speed communication
- 2 Servers & 2 Workstations serves as the operator interface of zero-downtime with new features e.g. Video Wall & GPS Network Time Synchronisation



Contract: EM SD 1155EM18W

Replacement of Central Control Monitoring System (CCMS) at Eastern Harbour Tunnel

Wing Cheong Electric Engineering & Contracting Co., Ltd.



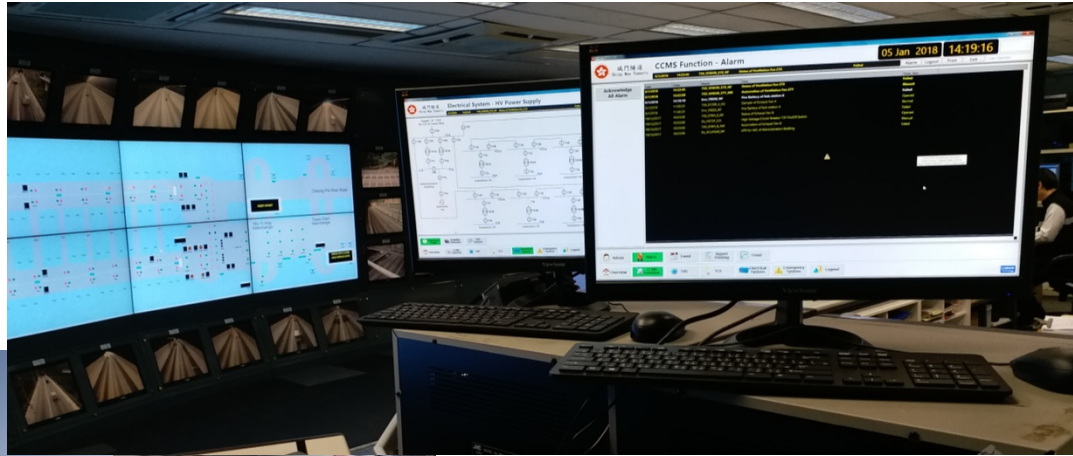


Contract: CEDD NE/2014/02

Lian Tong Tunnel Engineering Service for Traffic Control and Surveillance Systems

Siemens Limited

- Using Siemens S7 series PLC for whole TCSS system
- Provision of engineering services for development, installation, testing & commissioning of the TCSS system
- On-site support of the TCSS system during T&C and DLP period



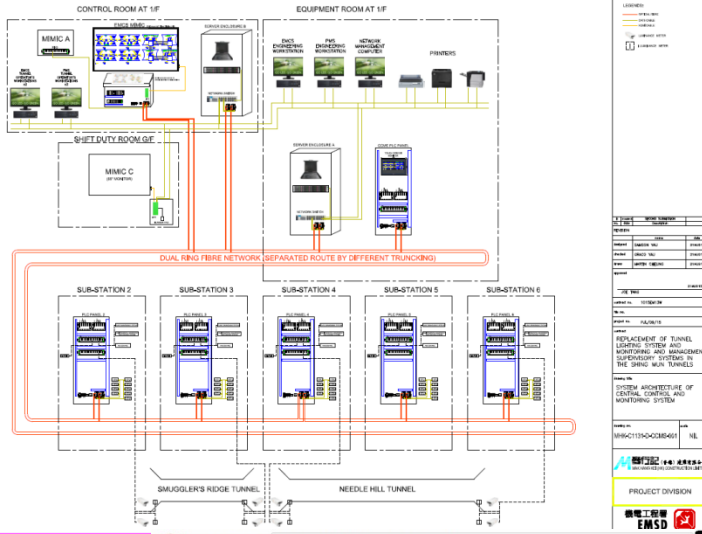
Contract: EMSD 1015EM13W

Replacement of Tunnel Lighting System and Monitoring and Management Supervisory Systems in the Shing Mun Tunnel

Mak Hang Kei (HK) Construction Limited.

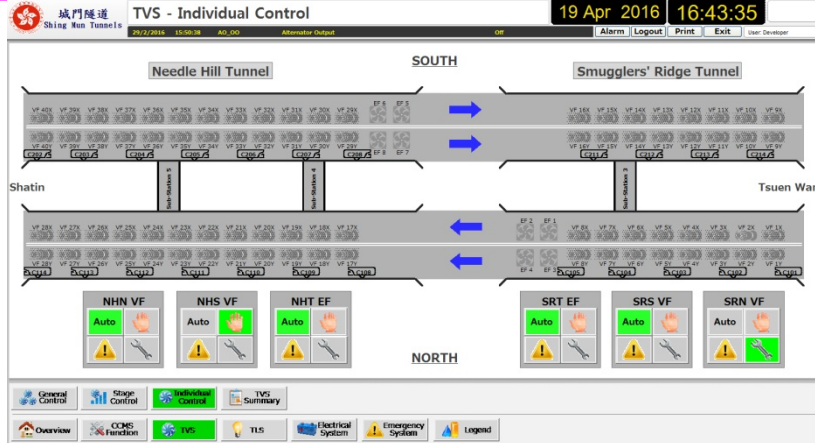


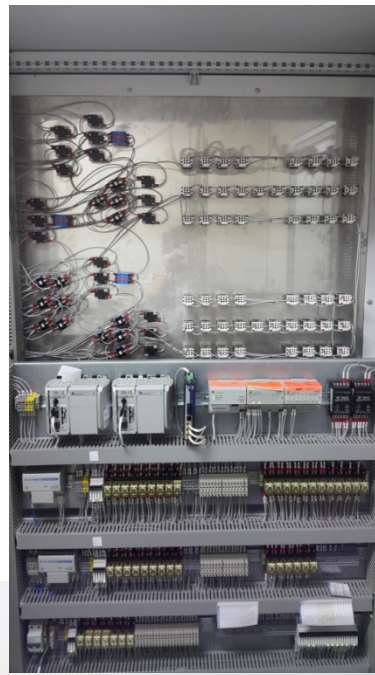
- Using Schneider Premium PLC and M340 I/O module
- Design, Supply and Install CCMS to control and monitor the lighting and fan system
- Replace the 25 years old existing system
- Open network architecture - redundant fiber optics network
- Supply and installation of PLC, communication module, fiber module and accessories for the SCADA to form a complete system



Replacement of Tunnel Lighting System and Monitoring and Management Supervisory Systems in the Shing Mun Tunnel

Mak Hang Kei (HK) Construction Limited.





Contract: AAHK P533

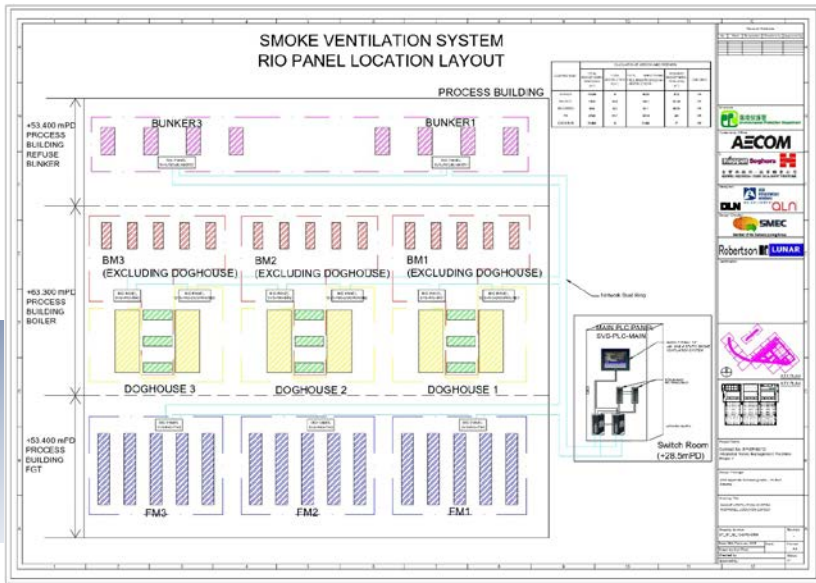
Midfield Concourse Works in Hong Kong

Gammon Construction Ltd.

- Use Rockwell ControlLogix PLC and I/O module
- Design, supply & install Lighting control system for the midfield tunnel
- Supply and installation of PLC, communication module, and accessories to form a complete system

Project Reference – Oil, Gas & Power



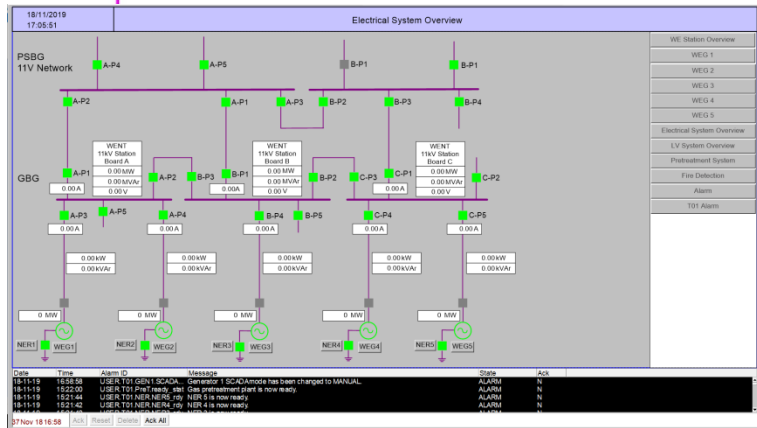
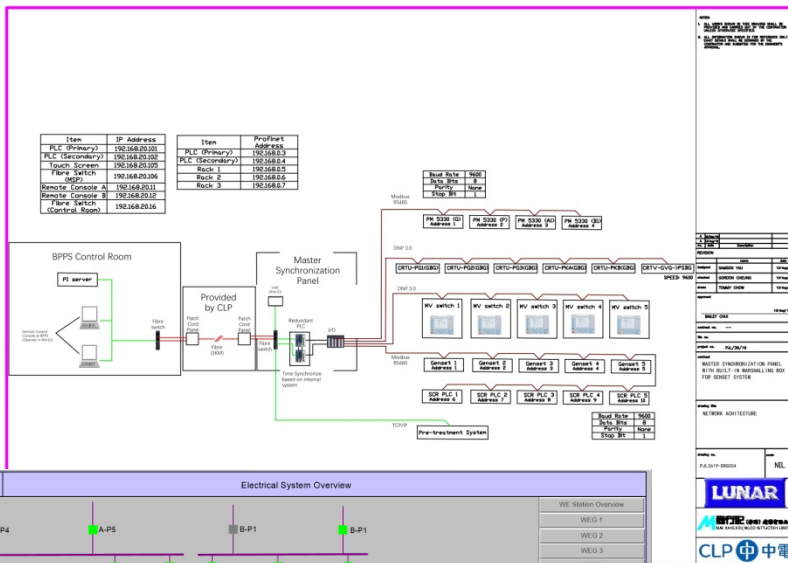


Contract: EPD EP/SP/66/12

Provision of SVS and Tipping Door Control System in Integrated Waste Management Facilities (IWMF) in Shek Kwu Chau

H.H. Robertson Limited

- Over 10 sets of hot standby Emerson RX3i PLC & I/O module
- Design, supply, install PLC Control panels and internal cabling for Static Smoke Extraction and Tipping Door Control System
- Create HMI and Hard-key Buttons for SVS and Tipping Door Control and Monitoring
- T&C with FSD for the designed and provided SVS and Tipping Door Control System

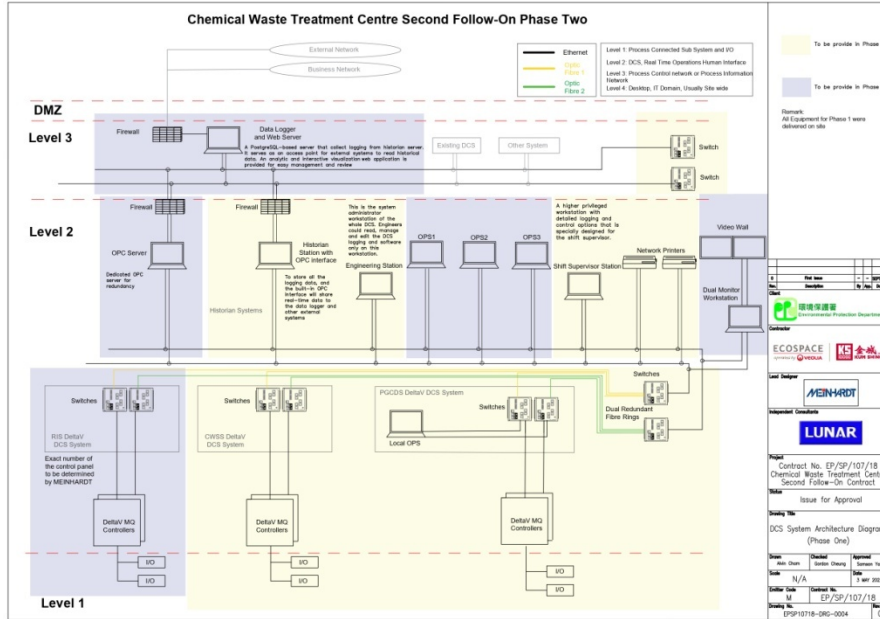


Contract: CLP WE Station Phase II

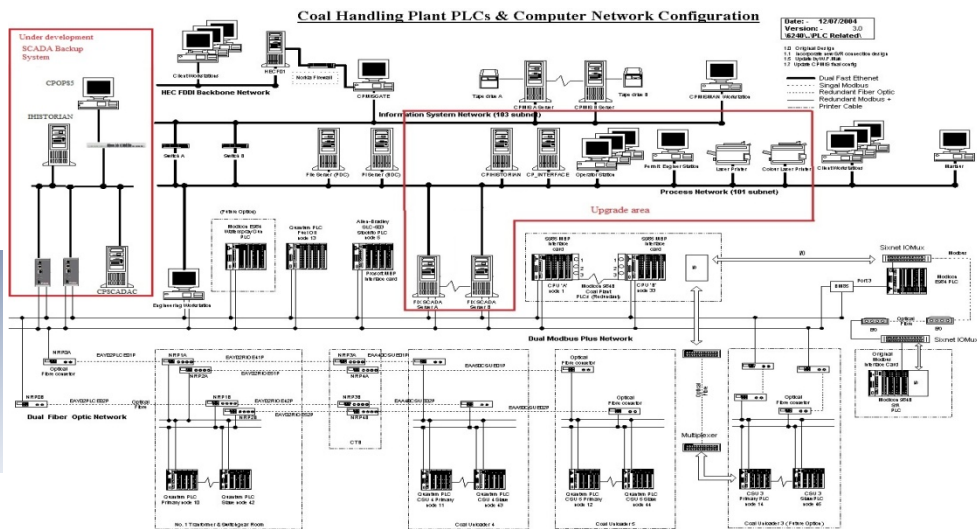
S&I Genset at WENT Landfill Gas Electricity Generator Phase II

ATAL Engineering Limited

- Modification of Hot-standby Redundancy PLC, controlling additionally 2 sets of generators, pre-treatment plant and other sub-system for power synchronization control
- Design, supply, install Emerson Remote I/O Panel for PLC Control System
- Create new SCADA user-friendly HMI and modify existing data logging system
- Redundant network architecture - redundant 2 fiber optics separated network



- Over 10 sets of Emerson DeltaV DCS Control Panel
- Design, supply, install DeltaV panels for DCS control system
- Create new HMI and data logging system for DCS
- Open network architecture - redundant 2 fiber optics separated ring network by Emerson

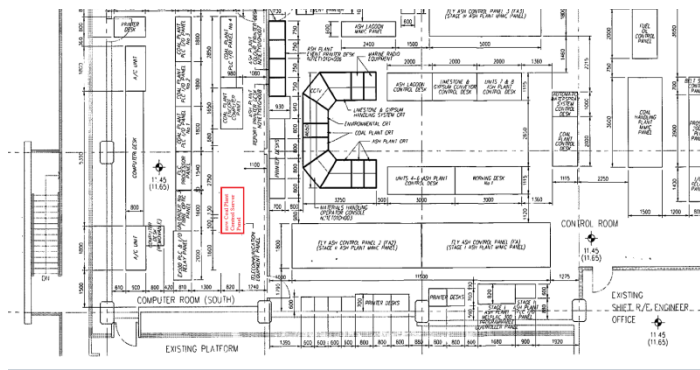


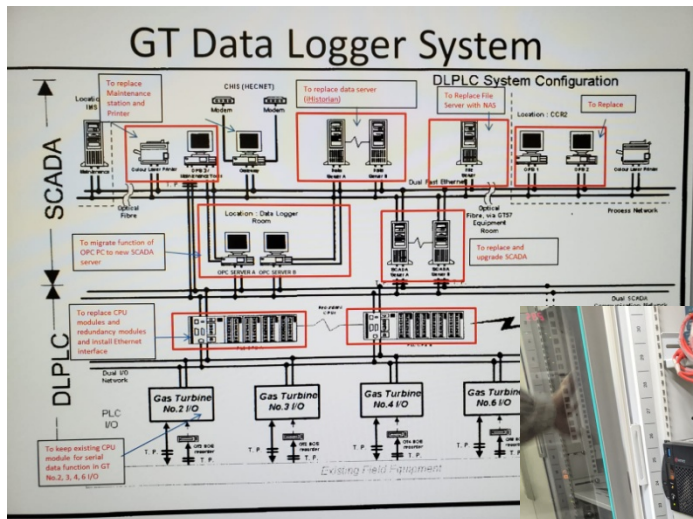
Contract: HEC 21-91223

Supply and Installation of Coal Plant SCADA System and Coal Yard Water Spray System in Lamna Power Station

Hongkong Electric Co., Ltd.

- Upgrade of existing iFix SCADA system of Coal Plant control system
- Replace and upgrade of Coal Yard Water Spray Schneider PLC from Quantum to M580 series
- Replace and installation of the weather station in the control building
- Create new HMI and remapping of the upgraded Schneider PLC on iFix SCADA





Contract: HEC 20-91263

Upgrading of SCADA for Gas Turbine Data Logger in Lamma Power Station

Hongkong Electric Co., Ltd.

- Upgrade of existing iFix SCADA system of Gas Turbine Data Logger system
- Replace and upgrade of Data Logger Rockwell CompactLogix PLC
- Build a new redundant Historian Server for the upgraded Data Logger iFix SCADA
- Re-work on the existing mal-function functions on the new Data Logger iFix SCADA

Project Reference – Water & Sewage Treatment



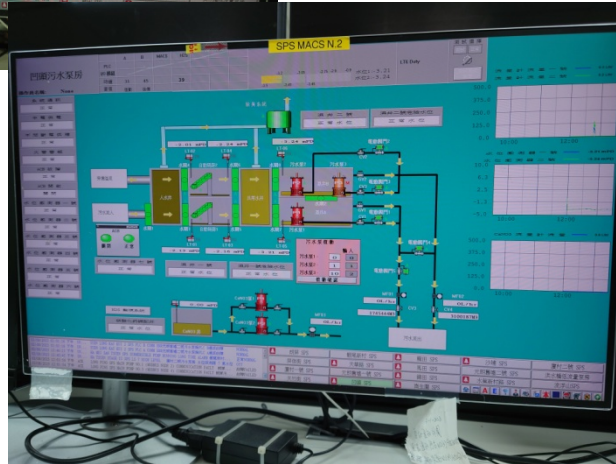
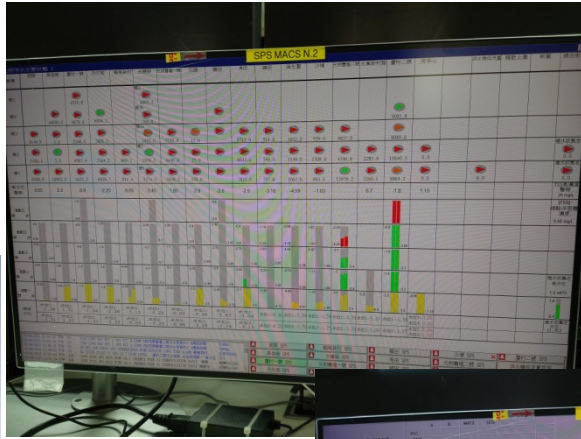


Sun Hung Kai Ma Wan Park

MACS system for Sewage Pumping Station in Ma Wan Phase II at Ma Wan LOT no.739

Lik Kai Engineering Co. Limited

- Provision of Emerson Rx3i Hot-standby redundant PLC for MACS system
- Design, supply & install MACS panel for automation operation & control of equipment in pumping station
- Provision of local HMI for control and monitor the equipment in pumping station
- Provision of UPS system for PLC panel in the pumping station

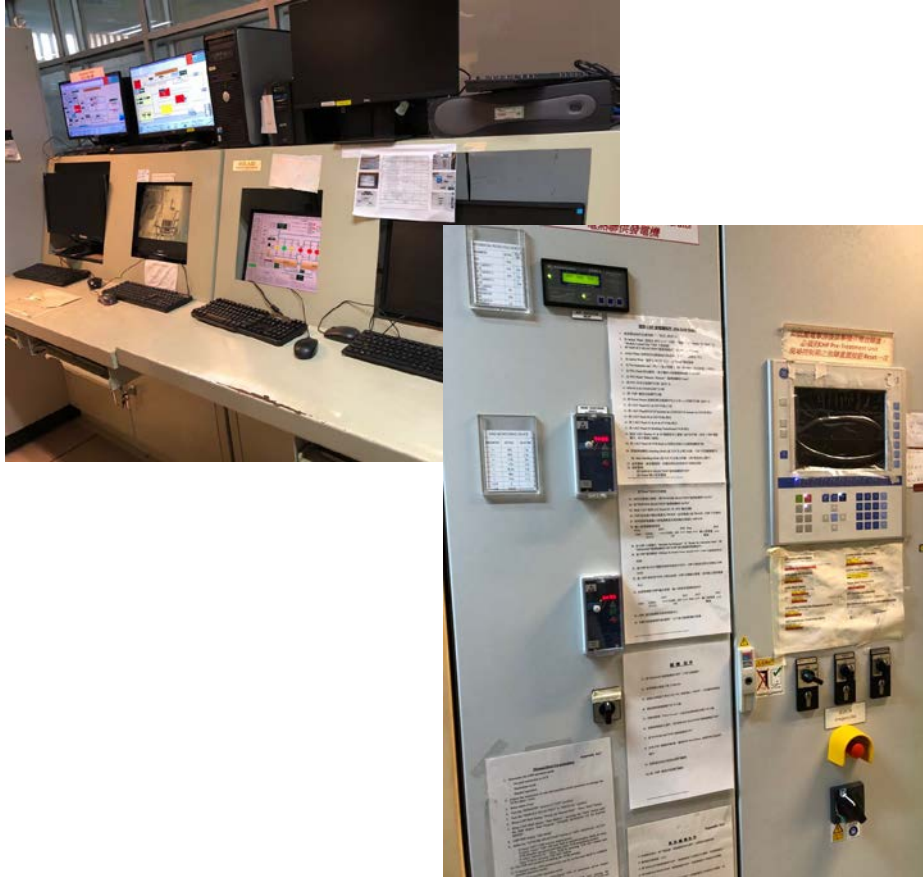


Contract: DSD CV/2021/05

Infrastructure Works for Public Housing Developments at Long Bin, Yuen Long Castle Peak Road (Ping Shan) and Long Tin Road

Hsin Chong Aster Building Services Ltd.

- Provision of Emerson Rx3i Hot-standby redundant PLC for MACS system
- Design, supply & install MACS panel for automation operation & control of equipment in pumping station
- Modification of existing MACS Master Station in Yuen Long STW with Intouch SCADA
- Provision of UPS system for PLC panel in the pumping station

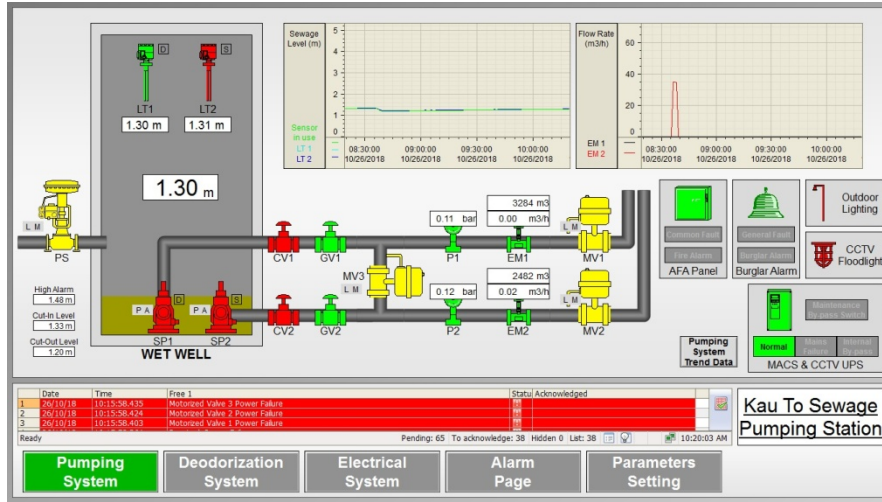


Contract: DSD DE/2019/16

Supply and Install CHP System at Sha Tin Sewage Treatment Works

The Jardine Engineering Corporation Limited

- Provision of Emerson Rx3i hot-standby redundant PLC for CHP system
- Design, supply & install CHP control panel for automation operation & control of CHP generator
- Design, supply & install new CHP control terminal with Emerson Omnicity HMI software
- Modification of existing Master Station in Shatin STW

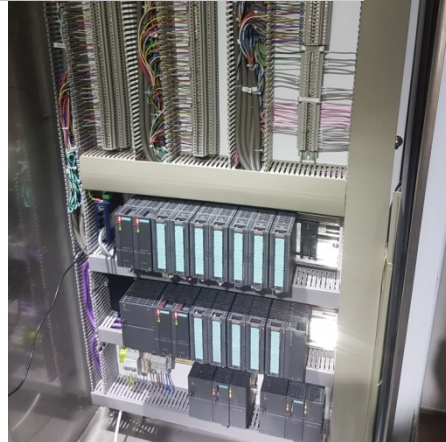


Contract: DSD DE/2015/07

Provision of Electrical and Mechanical Equipment for Kau To Sewage Pumping Station

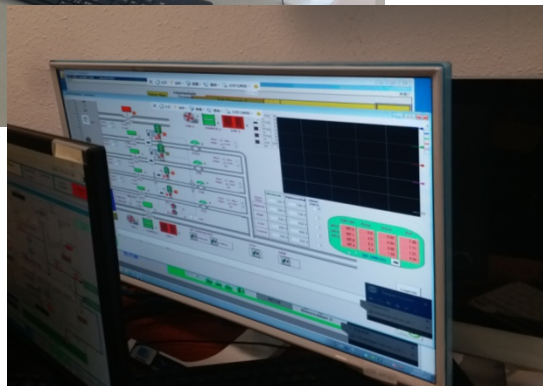
Hsin Chong Aster Building Services Ltd.

- Provision of Siemens S7-300 software redundant PLC and ET200M I/O modules for MACS system
- Design, supply & install MACS panel for automation operation & control of equipment in pumping station
- Modification of existing MACS Master Station in Shatin STW
- Provision of UPS system for PLC panel in the pumping station





環境保護局
Direcção dos Serviços
de Protecção Ambiental

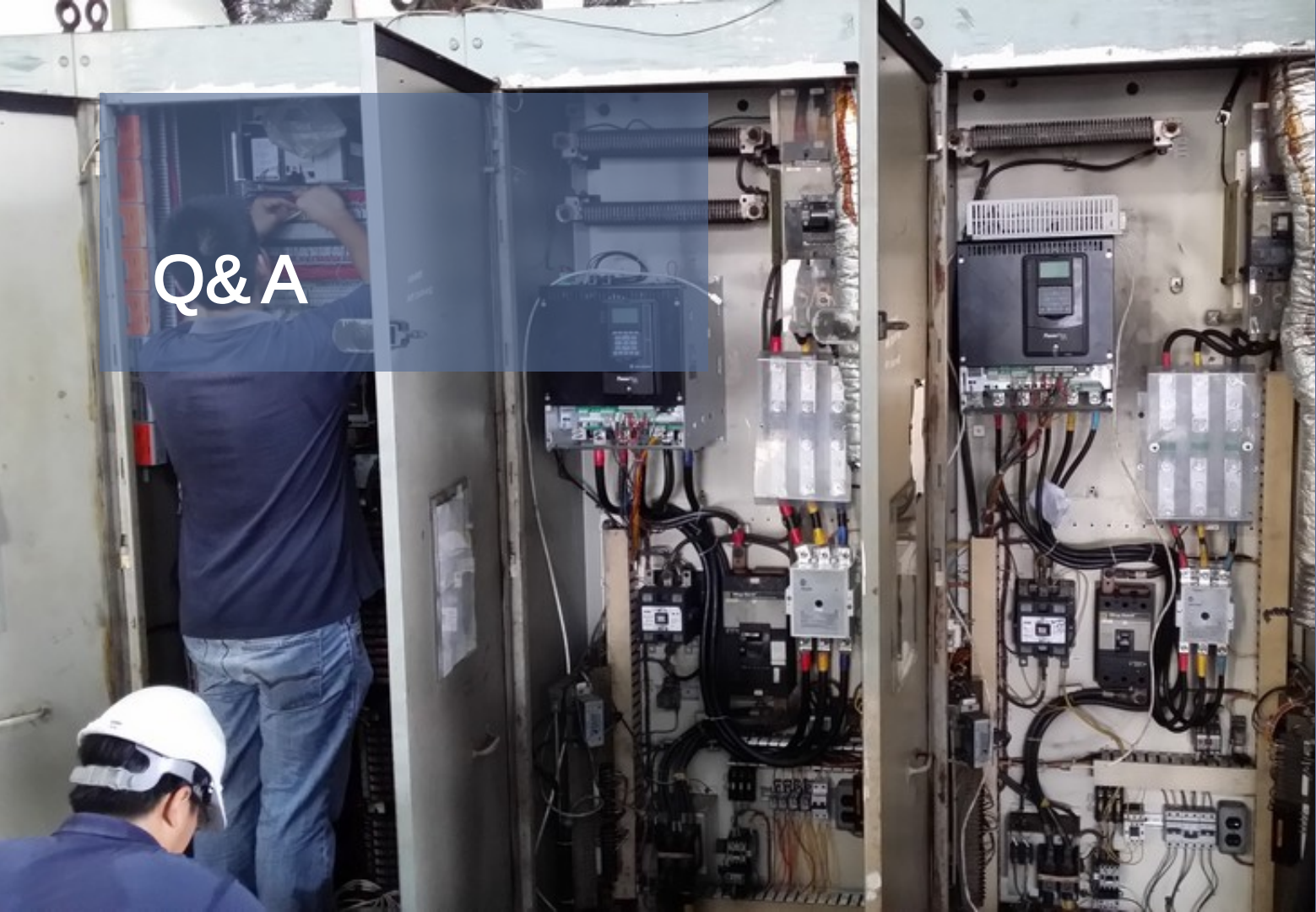


Macau Drainage Services Department DSPA

Effluent Pump Station at Macau Pensinsula ETAR

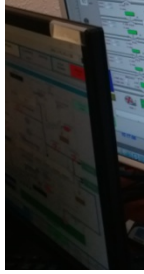
BEWG (Macau) Company Ltd.

- Modification of Rockwell CompactLogix PLC for pump control and monitoring system
- Testing and Commissioning of the re-programmed pumping control system with Rockwell FactoryTalk SCADA
- Modification of existing remote monitoring station in DSPA office



Q&A

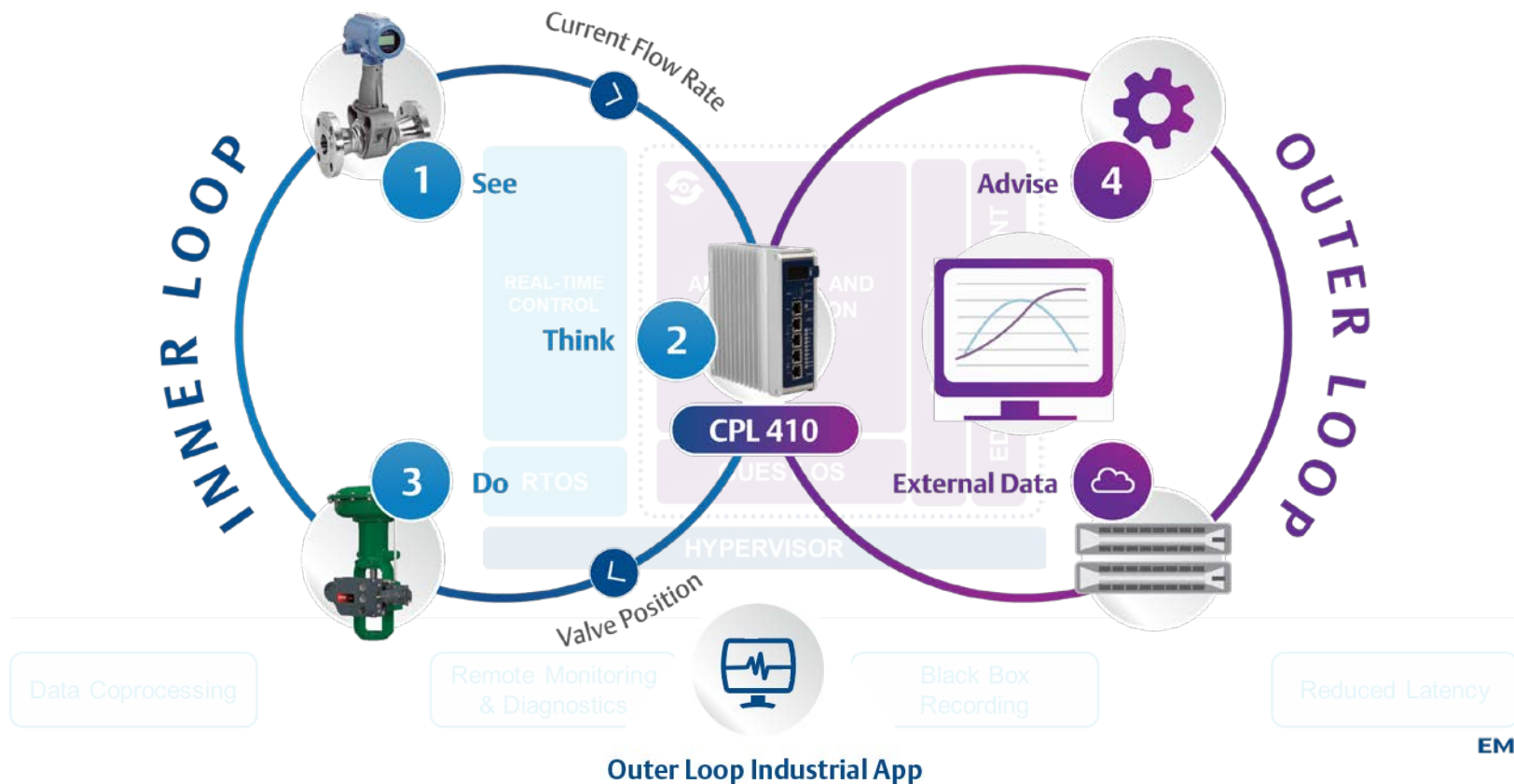
05



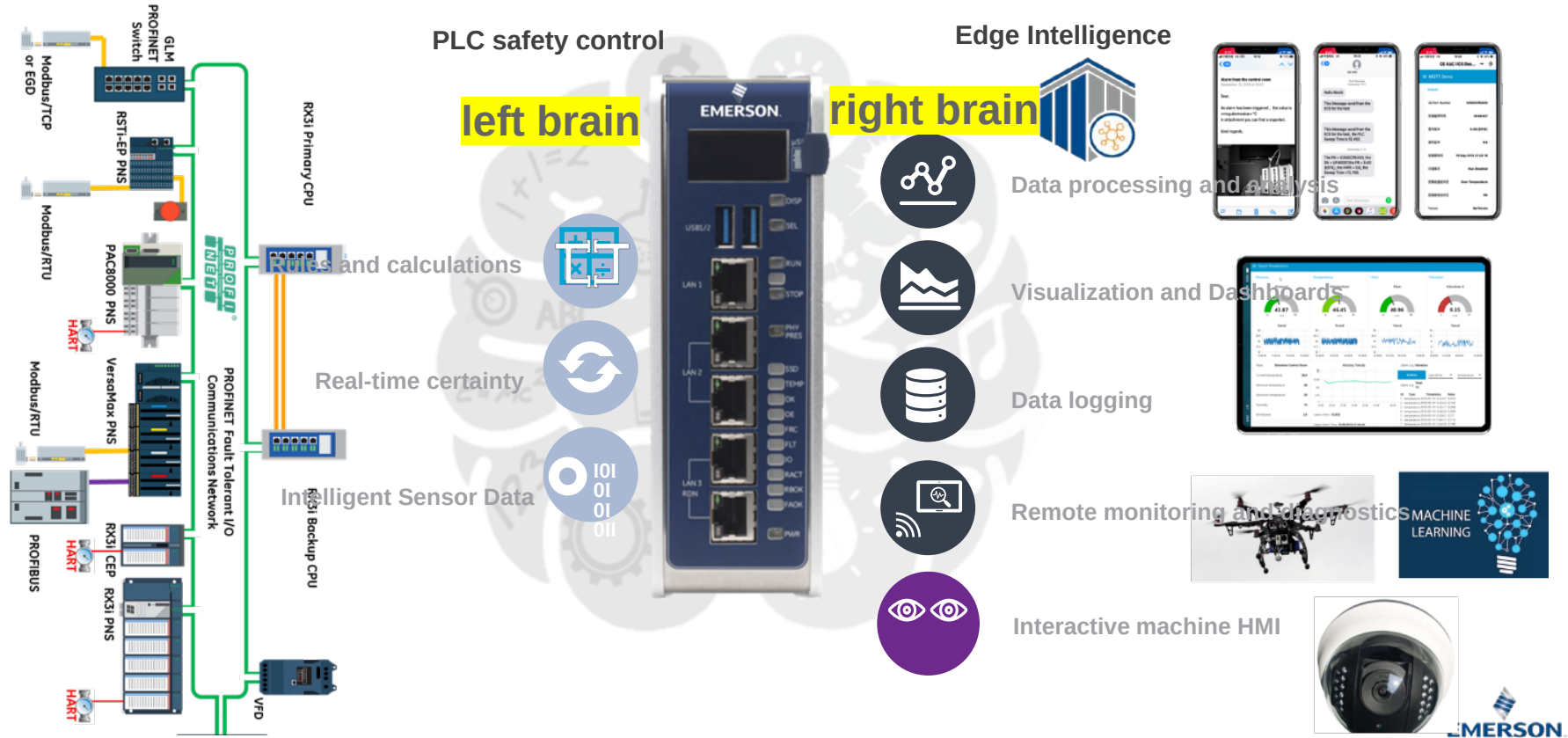
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- Testing and Commissioning of the re-programmed pumping control system with Rockwell FactoryTalk SCADA
- Modification of existing remote monitoring station in DSPA office

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THANKS

Does anyone have any questions?

information@grouplunar.com

Room 1810, One MidTown, 11 Hoi Shing Road,
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+852 35719538

grouplunar.com

