



# Vista Automation

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## PROJECT REFERENCES

### BMS

**United Arab Emirates:**

**Habshan to Fujairah Crude Oil Pipe Line Service Buildings HVAC Control System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of Twenty-Two HVAC Control System and Instrumentation for the 22 buildings servicing the 400km pipeline.

**Solution:** Redundant Siemens S7-300 (Software Redundancy), WinCC SCADA System, and Siemens Instrumentation System

**Location:** Sweihan & Fujairah, United Arab Emirates

**Client:** ADCO

**Kingdom of Saudi Arabia:**

**Medical Evacuation Center BMS at King Khalid International Airport and Salbouk Air Base**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Building Management System 27 buildings at KKI Airport and 33 building at Salboukh Airbase.

**Solution:** Schneider Electric SmartX DDC controllers with Enterprise Server BMS software

**Location:** Riyadh, Kingdom Saudi Arabia

**Client:** Royal Saudi Airforce

**State of Qatar:**

**HVAC Control System Upgrade for the product storage building**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the HVAC Control System and Instrumentation for the Product Storage Building.

**Solution:** Redundant Siemens S7400H PLC System and Siemens WinCC HMI Station.

**Location:** Mesied, Qatar

**Client:** QAFCO



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## **PROJECT REFERENCES**

### **OIL & GAS AND PETROCHEMICAL**

## **United Arab Emirates:**

### **M-Project HVAC Control System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Zone-1 HVAC electrical and control panel for electrical substation at Fujairah MOT.

**Solution:** Simplex ABB PLC enclosed in an Ex-e enclosure

**Location:** Abu Dhabi, UAE

**Client:** ADNOC

### **Vapor Extraction and Collection Control System Upgrade**

**Scope of Work:** Design, Supply, Installation, and Commissioning of upgrade of the vapor extraction and collection control system

**Solution:** upgrade of the Schneider Electric PLC system for process control and batch management for the vapor extraction and collection with integration with the existing Wonderware SCADA system

**Location:** Dubai, United Arab Emirates

**Client:** Total Lubricant Blending Company

### **Habshan to Fujairah Crude Oil Pipe Line HVAC**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of Twenty-Two HVAC Control System and Instrumentation

**Solution:** Redundant Siemens S7-300 (Software Redundancy), WinCC SCADA System, and Siemens Instrumentation System

**Location:** Sweihan & Fujairah, United Arab Emirates

**Client:** ADCO

### **Haliba & Near Haliba Early Production Facilities (EPF) Project**

**Scope of Work:** Supply, Configuration and Programming of PLC Based Flare Control System.

**Solution:** Rockwell Automation make Compactlogix

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Al Dhafra Petroleum Operations Company (ADNOC)

### **UMM AL DALKH EARLY PRODUCTION SCHEME EPC PROJECT**

**Scope of Work:** Design, Engineering, Manufacture, Programming, Testing, FAT and Supply of PLC based HVAC Control System.

**Solution:** Siemens make Redundant S7 Control System with Siemens HMI System

**Location:** Abu Dhabi, United Arab Emirates

**Client:** ADNOC Offshore

## **Kingdom of Saudi Arabia:**

### **PBR/EPDM Synthetic Rubber Process Refrigeration Control System**

**Scope of Work:** Design, Supply, and Commissioning of PLC and HMI system.

**Solution:** Redundant Siemens S7400H PLC System with local HMI and integration to the main plant DCS

**Location:** Jubail, Kingdom Saudi Arabia

**Client:** KEMYA – SABIC/Exxon

### **Poly Methyl Methacrylate (PMMA) Process Refrigeration Control System**

**Scope of Work:** Design, Supply, and Commissioning of PLC and HMI system.

**Solution:** Redundant Siemens S7400H PLC System with local HMI and integration to the main plant DCS

**Location:** Jubail, Kingdom Saudi Arabia

**Client:** SAMAC – SABIC/Mitsubishi Rayon

### **Under Balanced Drilling – Phase 4**

**Scope of Work:** Design, Supply, Manufacture, Programming, Testing, FAT and Supply of Zone-2 rated PCS and ESD/FGS system.

**Solution:** Redundant SIL-2 Rockwell make Control logix with 1715 IO System.

**Location:** Kingdom Saudi Arabia

**Client:** ARAMCO

## **Kingdom of Bahrain:**

### **Non-Associated Gas Compression Facility (NCF) 1&2 Containerized Control System and LV MCC**

**Scope of Work:** Design, Supply, and commissioning of the Containerized Control and Electrical Systems (E-House).

**Solution:** PCS and ESD/FGS Systems with Redundant SIL-2 Rockwell PLC System, ICONICS SCADA System, Control Room Setup, 415V LV MCC Panel, and 30KVA redundant UPS with Lead Acid Batteries (60 minutes backup) housed in 4 Nos. of modified ISO 40"HC containerized buildings.

**Location:** Bahrain

**Client:** Tatweer Petroleum Bahrain

## **State of Qatar:**

### **HVAC Control System Upgrade**

**Scope of Work:** Design, Supply, and Commissioning of PLC and HMI system.

**Solution:** Redundant Siemens S7400H PLC System and Siemens WinCC HMI Station,

**Location:** Mesied, Qatar

**Client:** QAFCO

### **EPIC for New Gasoline and Jet Storage Facilities in MIC - Nitrogen Generation Unit**

**Scope of Work:** Design, Supply, Manufacture, Programming, Testing, FAT and Supply of PCS-7 and HMI system.

**Solution:** Redundant Siemens SIL-3 PCS-7 System and HMI Station,

**Location:** Mesied, Qatar

**Client:** Qatar Energy

## **Sultanate of Oman:**

### **Al-Baraka Water Injection Station – Containerized Control System**

**Scope of Work:** Design, Supply, and commissioning of the Containerized Control and Electrical Systems (E-House).

**Solution:** Two Redundant Rockwell PLC and IO system, Network panel, and Redundant UPS with Lead Acid Batteries (30 minutes backup) housed in customized containerized buildings.

**Location:** Baraka Field, Oman

**Client:** Occidental Petroleum of Oman

### **Far West Gas Compression Station – Containerized Control System and LV MCC**

**Scope of Work:** Design, Supply, and commissioning of the Containerized Control and Electrical Systems (E-House).

**Solution:** Redundant Rockwell PLC System with SIL II IO system, FactoryTalk View SCADA System, Control Room Setup, LV Switchgear, LV MCC Panel, and Redundant 20KVA UPS with Lead Acid Batteries (30 minutes backup) housed in two standard 40"HC containerized buildings.

**Location:** Safa Field, Oman

**Client:** Occidental Petroleum of Oman

### **Al Barakah Water Injection – PLC/PESD Shelter**

### **Far West Fresh Water Injection Expansion Phase II**

**Scope of Work:** Design and Supply of ESD & F&G Control Panel

**Solution:** Rockwell Automation ControlLogix System

**Location:** Safa Field, Oman

**Client:** Occidental Petroleum of Oman

### **MVC HCL Tanks Relocation**

**Scope of Work:** Design and Supply of ESD & F&G Control Panel

**Solution:** Rockwell Automation ControlLogix System

**Location:** Mukhaizna, Oman

**Client:** Occidental Mukhaizna LLC

**Far West Fresh Water Injection Expansion Project – Al Barakah Development Phase I**

**Scope of Work:** Design and Supply of ESD & F&G Control Panel

**Solution:** Rockwell Automation ControlLogix System

**Location:** Al Khazain, Oman

**Client:** Occidental Mukhaizna LLC

**K-610 Gas Lift Compressor ESD and F&G**

**Scope of Work:** Design and Supply of ESD & F&G Control Panel

**Solution:** Rockwell Automation ControlLogix System

**Location:** Safa Field, Oman

**Client:** Occidental Petroleum of Oman

**K-610 Gas Lift Compressor Control System**

**Scope of Work:** Design and Supply of Gas Lift Compressor Control Panel

**Solution:** Rockwell Automation ControlLogix System

**Location:** Safa Field, Oman

**Client:** Occidental Petroleum of Oman

**Safah Field Water Injection Control System**

**Scope of Work:** Design, Supply, and Commissioning of the control panels for well water injection.

**Solution:** ControlLogix System

**Location:** Safa Field, Oman

**Client:** Occidental Petroleum of Oman

**Expansion of Liquid Handling Facility at Jalal**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the control system.

**Solution:** ControlLogix System

**Location:** Safa Field, Oman

**Client:** Occidental Petroleum of Oman

**PLC Control Panel for LOT-4: PCS & SGS Cabinets**

**Scope of Work:** Design, Supply, and Commissioning of the PLC System for L-4 at Mukhaiznah field

**Solution:** Rockwell Automation ControlLogix System

**Location:** Mukhaizna, Oman

**Client:** Occidental Mukhaizna LLC

**PLC Control Panel for KGP Tie-in Area Fushaigah Field**

**Scope of Work:** Design, Supply, and Commissioning of the PLC System for Block 62 Development

**Solution:** Rockwell Automation ControlLogix System

**Location:** Fushaigah, Oman

**Client:** Occidental Oman Gas Company LLC

**BISAT-C Production Facility – Nitrogen Generation and Air Compressor Package**

**Scope of Work:** Design, Engineering, Programming, Panel Integration, Testing, Supply and Documentation of PCS-7 Control System

**Solution:** Siemens make PCS-7

**Client:** OQ

**Thuleilat Oil Well Injection (ESP) Skid**

**Scope of Work:** Design, Engineering, Panel Integration, Supply, and Documentation of the 6 Nos. of RTU System.

**Solution:** Rockwell Automation Compactlogix System

**Location:** Thuleilat, Oman

**Client:** Occidental Oman Gas Company LLC

## **Republic of Iraq:**

### **SIBA Gas Field Development Project**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the Control System for the Gas Compression Process Cooling in Addition to the Integration with the Main DCS System over Modbus TCP/IP.

**Solution:** Redundant Siemens S7400H PLC System in SIL2 configuration with HMI Station and Main Distribution Boards and MCC Panels.

**Location:** Siba, Iraq

**Client:** Kuwait Energy Iraq Limited (KEIL)

### **EPC for Well pad 7 and CPF WI area at the West Qurna (phase 2)**

**Scope of Work:** Design, Engineering, Supply & Commissioning of PLC based HVAC Control System for Satellite Instrument Houses

**Solution:** Schneider make Redundant M580 Control System

**Location:** Kurdistan, Iraq

**Client:** Lukoil

### **Provision of Extended Well Test Equipment and Services**

**Scope of Work:** Design, Engineering, Panel Integration and Supply of RTU Systems (4 Nos.) in Zone-2 rated Ex'e Enclosure.

**Solution:** Rockwell Automation make Compact Logix Control System

**Location:** Kurdistan, Iraq

**Client:** Rosneft

### **Modernization of Bejil EWT Facilities (Stage 1) and Well BJ-11 Hookup**

**Scope of Work:** Design, Engineering, Panel Integration, Testing, Supply and Commissioning of ICSS System, PAGA System, 20ft Container and UPS System

**Solution:** Schneider make M340 for PCS and Safety M580 System for ESD/FGS.

**Location:** Kurdistan, Iraq

**Client:** Rosneft

## **Arab Republic of Egypt:**

### **Basin 3 Liquid Gas Bulk Terminal at Sokhna Port**

**Scope of Work:** Design, Supply, Installation, and Commissioning the control system and the integration of Bentley Nevada Vibration Monitoring System for the Boil Off Gas (BOG) Liquefaction and Refrigeration Packages, in addition to the Integration with Main DCS System over Modbus TCP/IP.

**Solution:** Four Redundant Siemens S7400H PLC System with four HMI Stations and Bentley Nevada Vibration Monitoring Racks.

**Location:** Sokhna, Egypt

**Client:** Sonker

## **Turkmenistan:**

### **LAM off-shore Platforms HVAC RTU and SCADA Upgrade**

**Scope of Work:** Programming and commissioning of 4 off-shore platforms HVAC RTU and the supply of Cimplicity SCADA system.

**Solution:** programming and configuration of King fisher RTUs (4) with the supply and programming of GE Cimplicity SCADA and the integration of HIMA ESD system.

**Location:** Turkmenistan

**Client:** Dragon Oil

## **Nigeria:**

### **Ajaokuta Kaduna Kano Gas Pipeline Project**

**Scope of Work:** Design, Engineering, Manufacture, Programming, Testing, FAT and Supply of Metering Control System.

**Solution:** Emerson make Flobos S600+, Siemens make Redundant S7 PLC System and Siemens WINCC SCADA System.

**Location:** Nigeria

**Client:** Nigeria National Petroleum Corporation



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**PROJECT REFERENCES**

**CONDITION MONITORING SYSTEMS**



## **United Arab Emirates:**

### **Dubai Investment Park Pump Station 1 Condition Monitoring System**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the Online Condition (Vibration & Temperature) Monitoring and Protection System for 8 potable water pumps

**Solution:** Rockwell Automation Dynamix 144 Vibration Modules on ControlLogix processor, Flex RTD Modules, E-Monitor Vibration Analysis and Diagnostics software, Hansford vibration sensors, and Integration with Rockwell Automation SCADA System

**Location:** Dubai, UAE

**Client:** Dubai Electricity and Water Authority

### **Najma Pump Station 2 Condition Monitoring System**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the Online Condition (Vibration & Temperature) Monitoring and Protection System for 8 potable water pumps

**Solution:** Rockwell Automation Dynamix 144 Vibration Modules on ControlLogix processor, Flex RTD Modules, E-Monitor Vibration Analysis and Diagnostics software, Hansford vibration sensors, and Integration with Schneider SCADA System.

**Location:** Dubai, UAE

**Client:** Dubai Electricity and Water Authority

### **Jabel Ali Sewage Treatment Plant Phase 2 Condition Monitoring System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Condition (Vibration & Temperature) Monitoring System for Six Effluent Pumps

**Solution:** Rockwell Automation Dynamix 1444 Vibration Modules on CompactLogix processor, CompactLogix RTD Modules, Hansford vibration sensors, and Integration with ABB DCS

**Location:** Dubai, United Arab Emirates

**Client:** Dubai Municipality

### **Jebal Ali RO Plant HP Pumps Condition Monitoring System Retrofit**

**Scope of Work:** Retrofit of the existing Condition Monitoring System including the configuration, analysis the vibration measurement issues, and tuning of the Rockwell Automation vibration modules (XM 120/XM 124) installed for the vibration measurement of RO train HP pumps.

**Solution:** Rockwell Automation XM Vibration Modules, Hansford sensor, and Integration with Rockwell Automation SCADA System

**Location:** Dubai, United Arab Emirates

**Client:** Dubai Electricity & Water Authority (DEWA)

## **Kingdom of Saudi Arabia:**

### **Ras Al-Khair Sea Water Pump Station Condition Monitoring System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Online Condition (Vibration & Temperature) Monitoring and Protection System for four 3MW Sea Water Intake Pumps

**Solution:** Rockwell Automation XM Vibration Modules, CompactLogix RTD Modules, E-Monitor Vibration Analysis and Diagnostics software, and Integration with Rockwell Automation SCADA System

**Location:** Ras Al Khair, Kingdom Saudi Arabia

**Client:** Royal Commission

### **King Saud University Chiller Plant Condition Monitoring System**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the Condition (Vibration) Monitoring System for seven chilled water distribution pumps

**Solution:** Rockwell Automation Dynamix 1444 Vibration Modules, Bentley Nevada Sensors, and Integration with Rockwell Automation SCADA System

**Location:** Riyadh, Kingdom Saudi Arabia

**Client:** King Saud University

### **PBR & EPDM Synthetic Rubber Refrigeration Compressors Condition Monitoring System**

**Scope of Work:** Design, Panel Integration, and Commissioning of the Condition Monitoring System for Refrigeration Compressors

**Solution:** Bentley Nevada 3500

**Location:** Jubail, Kingdom Saudi Arabia

**Client:** Refrigeration Engineering International - KEMYA (SABIC/ExxonMobil)

**Poly Methyl Methacrylate Refrigeration Compressors Condition Monitoring System**

**Scope of Work:** Design, Panel Integration, and Commissioning of the Condition Monitoring System for Refrigeration Compressors

**Solution:** Bentley Nevada 3500

**Location:** Jubail, Kingdom Saudi Arabia

**Client:** Refrigeration Engineering International - SAMAC (SABIC /Mitsubishi Rayon)

**Shoaiba-Mina Water Transmission System**

**Scope of Work:** Testing and Commissioning of the Condition (Vibration) Monitoring System for 6 Main Desalination Water Pumps (11MW) and 6 Booster pumps (8MW) at Mina Pump Station

**Solution:** Bentley Nevada 3500

**Location:** Jeddah, Kingdom Saudi Arabia

**Client:** SWCC

**Sultanate of Oman:**

**Salalah LPG Project Condition Monitoring System**

**Scope of Work:** Testing and Commissioning of the Condition (Vibration) Monitoring System LPG Plant Refrigeration Compressors

**Solution:** Bentley Nevada 3500

**Location:** Dhofar, Oman

**Client:** Oman Gas

**Arab Republic of Egypt:**

**Basin 3 Liquid Gas Bulk Terminal at Sokhna Port**

**Scope of Work:** Design, Panel Integration, and Commissioning of the Condition Monitoring System for Gas Liquefaction and Refrigeration Compressors

**Solution:** Bentley Nevada 3500

**Location:** Sokhna Port, Egypt

**Client:** Refrigeration Engineering International – Sonker Energy

**Vibration Analysis and Diagnostics Software**

**Scope of Work:** Supply, Installation, Configuration of Vibration Analysis and Diagnostics Software

**Solution:** Rockwell Automation vibration modules (XM 120/XM 124) with E-Monitor Vibration Analysis & Diagnostic Software

**Location:** Damietta, Egypt

**Client:** Spanish Egyptian Gas Co. S.A.E (SEGAS)



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## **PROJECT REFERENCES**

### **DISTRICT COOLING PLANTS**

## **United Arab Emirates:**

### **SeaWorld District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system for the Process and the building services in addition to the SIL-3 ESD system to allow for the unmanned operation of the Plant.

**Solution:** Redundant Rockwell Automation ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, FactoryTalk Historian System with VantagePoint Reporting, SIL-3 S7400 Siemens Controllers with FS IOs for the ESD system and E+H Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Tabreed

### **Danat District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Siemens S7400H PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, FactoryTalk Historian System with VantagePoint Reporting, and E+H Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** PAL Cooling

### **First District Cooling Plant Expansion and Upgrade in Al Reem Island**

**Scope of Work:** Upgrade the 2009-installed Rockwell Redundant ControlLogix PLC with ControlNet IO network to the latest Redundant PLC on Ethernet/IP IO network. In addition to the supply and installation of the instrumentation, IO capacity, for the newly installed chillers, pumps, and TES tanks and integration in the PLC logic, SCADA graphics, historian, and reporting.

**Solution:** replace the legacy 1756-L6x controller, ENBT, CNBR, SRM modules with 1756-L7x Controller, EN2TR, and RM modules and change all IO racks communication modules to be on Ethernet IP. Install new RIO panels based on 1794 Flex IOs to accommodate the newly installed equipment and TES tanks and the associated instruments from E+H. Integration of the new IOs with the redundant FactoryTalk SCADA system, FactoryTalk Historian and VantagePoint Reporting.

**Location:** Abu Dhabi, UAE

**Client:** PAL Cooling

### **Shams District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Siemens S7400H PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, FactoryTalk Historian System with VantagePoint Reporting, and E+H Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** PAL Cooling

### **Jumeirah Village Circle (JVC) District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Siemens S7400H PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, FactoryTalk Historian System with Reporting, and E+H Instrumentation system

**Location:** Dubai, United Arab Emirates

**Client:** Empower

### **Mirdiff Main District Cooling Plant Controls Upgrade**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the control system upgrade.

**Solution:** Allen-Bradley CompactLogix PLC System; Rockwell Automation FactoryTalk View Site Edition SCADA System, and E+H Instrumentation system

**Location:** Dubai, United Arab Emirates

**Client:** Empower

### **Abu Dhabi Airport District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Siemens/E+H Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Abu Dhabi Airports Company

#### **Warsan Village District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA System.

**Solution:** Redundant Siemens S7400H PLC System; Redundant Siemens WinCC Server-Client, Historian with Reporting, and Siemens and Endress-Hauser Instrumentation system.

**Location:** Dubai, United Arab Emirates

**Client:** Nakheel

#### **Dubai Creek Harbour Development District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA System.

**Solution:** Redundant Siemens S7400H PLC System; Redundant Siemens WinCC Server-Client, Historian with Reporting, and Siemens and Endress-Hauser Instrumentation system.

**Location:** Dubai, United Arab Emirates

**Client:** EMAAR

#### **Jumeirah Lake Towers District Cooling Plant 1**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system replacing the existing obsolete control system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, FactoryTalk Historian System with Reporting, and Siemens Instrumentation system

**Location:** Dubai, United Arab Emirates

**Client:** Empower

#### **Dubai Metro Green Line District Cooling Plants 10 & 11**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Endress-Hauser Instrumentation system

**Location:** Dubai, United Arab Emirates

**Client:** Tabreed

#### **Palm Jumeirah Crescent District Cooling Plant 4 Controls Upgrade**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system replacing the existing obsolete control system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, FactoryTalk Historian System with Reporting, and Siemens Instrumentation system

**Location:** Dubai, United Arab Emirates

**Client:** Empower

#### **Saadiat Island District Cooling Plant DCP4**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Siemens/E+H Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** PAL Technology

#### **Saraya Abu Dhabi Cornish District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Siemens/E+H Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** PAL Technology

#### **ADNEC Capital Center District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Endress-Hauser Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** PAL Technology

### **Shams Abu Dhabi Modular District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Siemens S7-300 PLC System; Redundant WinCC SCADA System, and Endress-Hauser Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** PAL Technology

### **Dragon Mart Modular District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Siemens S7-400 PLC System; Redundant WinCC SCADA System, and Endress-Hauser Instrumentation system

**Location:** Dubai, United Arab Emirates

**Client:** Nakheel

### **Baynoona District Cooling Plant Expansion**

**Scope of Work:** Design, Supply, Installation Supervision, Commissioning, and Integration of the Additional Controls and Instrumentation Components Required for the New Equipment Installed in the Plant.

**Solution:** GE RX3i PLC System Expansion; Integration with Cimplicity SCADA System, and Endress-Hauser Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Tabreed

### **UAE University District Cooling Plant Expansion**

**Scope of Work:** Design, Supply, Installation Supervision, Commissioning, and Integration of the Additional Controls and Instrumentation Components Required for the newly-installed equipment.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System expansion; integration with Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Endress-Hauser Instrumentation system

**Location:** Al-Ain, United Arab Emirates

**Client:** Tabreed

### **Strategic Tunnel Enhancement Program Phase 1**

**Scope of Work:** Design, Supply, Installation Supervision, and commissioning of the PLC and HMI system for the tunnel HVAC

**Solution:** Allen-Bradley CompactLogix PLC System and HMI

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Samsung

### **YAS Island District Cooling Plant Expansion**

**Scope of Work:** Design, Supply, Installation Supervision, Commissioning, and Integration of the Additional Controls and Instrumentation Components Required for the New Equipment Installed in the Plant.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System expansion; integration with Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Endress-Hauser Instrumentation system

**Location:** Yas Island, United Arab Emirates

**Client:** Tabreed

### **Golf Gardens District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Allen-Bradley CompactLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Endress-Hauser Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Sorrouh

### **Raihan Heights District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Endress-Hauser Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Capitala

### **Zayed University District Cooling Plants 1 & 2**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Allen-Bradley CompactLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Endress-Hauser Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Zayed University

### **Pearl of the Emirates District Cooling Plant 1 (DCP1)**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Endress-Hauser Instrumentation system

**Location:** Abu Dhabi, United Arab Emirates

**Client:** PAL Technology

### **Dubai Investment Park District Cooling Plant 3 (DIP3)**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Endress-Hauser Instrumentation system

**Location:** Dubai, United Arab Emirates

**Client:** Emicool

### **Reef District Cooling Plant**

**Scope of Work:** Provide 3<sup>rd</sup> Party commissioning Management Services.

**Solution:** Prepare Commissioning Plan, Procedures, and Documentation; Coordination with Equipment Vendors, Manage the Commissioning Activities, Witness and Verify the Commissioning of all Plant Equipment; Carry out the Plant Performance Tests; Administer the Operation Training, and Manage the Plant Handover to the Client

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Manazel

### **YAS Island District Cooling Plant**

**Scope of Work:** Provide 3<sup>rd</sup> Party commissioning Management Services.

**Solution:** Prepare Commissioning Plan, Procedures, and Documentation; Coordination with Equipment Vendors, Manage the Commissioning Activities, Witness and Verify the Commissioning of all Plant Equipment; Administer the Operation Training, and Manage the Plant Handover to the Client

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Tabreed

### **Jumeirah Crescent District Cooling Plants**

**Scope of Work:** Provide 3<sup>rd</sup> Party commissioning Management Services.

**Solution:** Prepare Commissioning Plan, Procedures, and Documentation; Coordination with Equipment Vendors, Manage the Commissioning Activities, Witness and Verify the commissioning of all Plant Equipment; Administer the Operation Training, and Manage the Plant Handover to the Client

**Location:** Dubai, United Arab Emirates

**Client:** Palm District Cooling

### **Jumeirah Lake Towers District Cooling Plants**

**Scope of Work:** Provide 3<sup>rd</sup> Party commissioning Management Services.

**Solution:** Prepare Commissioning Plan, Procedures, and Documentation; Coordination with Equipment Vendors, Manage the Commissioning Activities, Witness and Verify the Commissioning of all Plant Equipment; Administer the Operation Training, and Manage the Plant Handover to the Client

**Location:** Dubai, United Arab Emirates

**Client:** Palm District Cooling

## **Kingdom of Saudi Arabia:**

### **Mohammad Bin Salman Foundation (MiSK) District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA System.

**Solution:** Redundant Siemens S7400H PLC System; Redundant Siemens WinCC Server-Client, Historian with Reporting, and Siemens and Endress-Hauser Instrumentation system.

**Location:** Riyadh, Kingdom Saudi Arabia

**Client:** Mohammad Bin Salman Foundation

### **Neom Development Central Utility Complex 2**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the DCS-based Control System.

**Solution:** Schneider Electric EcoStruxure Hybrid DCS (PlantStruxure PES)

**Location:** Tabouk Province, Kingdom Saudi Arabia

**Client:** Neom

### **TIR-1110 DCP in Community Area, Al Jubail**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA System.

**Solution:** Redundant Honeywell MasterLogic redundant PLC System; Redundant PlantCruise Server-Client, Historian with Reporting, and Endress-Hauser Instrumentation system.

**Location:** Al Jubail, Kingdom Saudi Arabia

**Client:** Royal Commission for Jubail & Yanbu

### **Neom Development Central Utility Complex 1**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the DCS-based Control System.

**Solution:** Schneider Electric EcoStruxure Hybrid DCS (PlantStruxure PES)

**Location:** Tabouk Province, Kingdom Saudi Arabia

**Client:** Neom

### **Government Agencies Compound District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA System.

**Solution:** Redundant Siemens S7400H PLC System; Redundant Siemens WinCC Server-Client, Historian with Reporting, and Siemens and Endress-Hauser Instrumentation system.

**Location:** Riyadh, Kingdom Saudi Arabia

**Client:** Ministry of Finance

### **Madina Haji City District Cooling Plants**

**Scope of Work:** Design, Supply, Installation supervision, and Commissioning of the Integrated PLC, SCADA, and Instrumentation System for the Development Infrastructure Including District Cooling Plants & ETS, Grey Water & irrigation Pumping Stations, Tunnel Ventilation System, and Central Command & Control Center.

**Solution:** Redundant Rockwell ControlLogix PLC systems; Redundant SCADA Client-server system; Redundant Historian System with Reporting; and E+H Instrumentation

**Location:** Al Madinah Al-Munawara, Kingdom Saudi Arabia

**Client:** Ministry of Finance

### **King Saud University Endowment Central Utility Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and ABB Instrumentation system

**Location:** Riyadh, Kingdom Saudi Arabia

**Client:** King Saud University

### **King Fahd Hospital Modular Chiller Plant Control System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated PLC, and SCADA system.

**Solution:** Allen-Bradley CompactLogix PLC System; Rockwell Automation FactoryTalk View Site Edition SCADA System

**Location:** Jizan, Kingdom Saudi Arabia

**Client:** Stellar Energy



**King Saud University Campus District Cooling Plant**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Endress-Hauser Instrumentation system

**Location:** Riyadh, Kingdom Saudi Arabia

**Client:** King Saud University

**King Abdul Aziz International Airport – Cooling Tower Local Control Panel**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the local PLC & VFD control panels for the cooling tower.

**Solution:** Siemens S7-1200 PLC System and I/Os.

**Location:** Jeddah, Kingdom Saudi Arabia

**Client:** King Abdul Aziz International Airport



**State of Qatar:**

**Lusail Marina District Cooling Plant - Lusail City Development**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA System.

**Solution:** Redundant Siemens S7400H PLC System; Redundant Siemens WinCC Server-Client, Historian with Reporting, and Siemens and Endress-Hauser Instrumentation system

**Location:** Doha, Qatar

**Client:** Marafeq Qatar

**Lusail Wadi District Cooling Plant - Lusail City Development**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the Integrated Instrumentation, PLC, and SCADA System.

**Solution:** Redundant Siemens S7400H PLC System; Redundant Siemens WinCC Server-Client, Historian with Reporting, and Siemens and Endress-Hauser Instrumentation system

**Location:** Doha, Qatar

**Client:** Marafeq Qatar



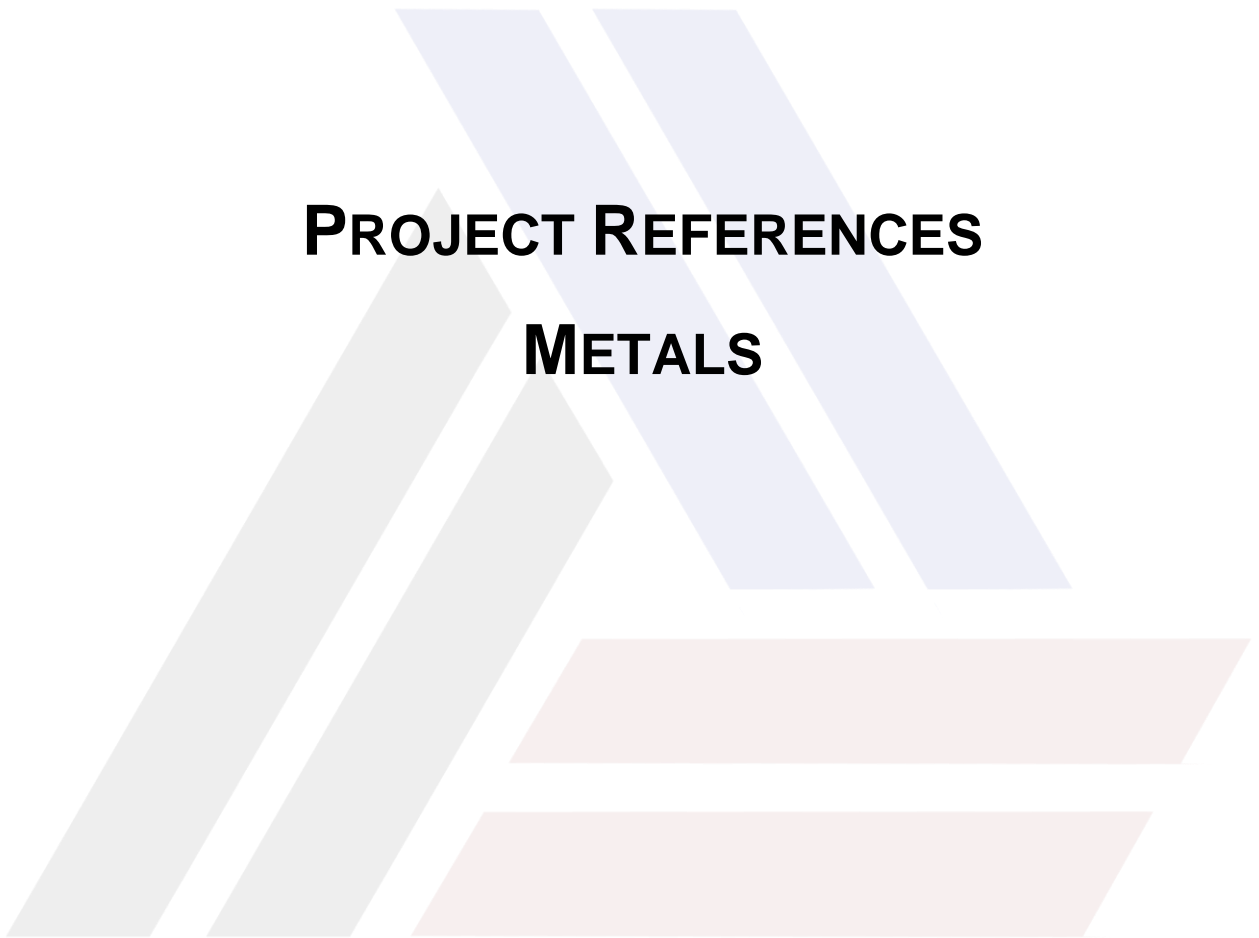


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## PROJECT REFERENCES

### METALS



**Emirates Aluminum Phase I – Plant-wide SCADA Integration**

**Scope of Work:** The Integration of all Sub-systems Supplied by OEM Plant-wide into a 3 Central SCADA Systems.

**Solution:** Allen-Bradley ControlLogix and CompactLogix PLC Systems, Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and FactoryTalk Historian.

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Emirates Global Aluminium (EGA)

**Emirates Aluminum Phase II - Controls, Instrumentation, SCADA POV & Integration**

**Scope of Work:** The Integration of all Sub-systems Supplied by OEM Plant-wide into a 3 Central SCADA Systems.

**Solution:** Allen-Bradley ControlLogix and CompactLogix PLC Systems, Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and FactoryTalk Historian.

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Emirates Global Aluminium (EGA)

**Automatic Anode Tracking Crane Positioning**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the Automatic Anode Tracking and Crane Position Including Position Encoders and RFID Recognition with the Integration with the Existing Crane Control System and the Existing Central SCADA, Historian and Reporting System. new SCADA & Historian hardware and software with additional instrumentation.

**Solution:** Rockwell Automation CompactLogix and Integration with FactoryTalk View Client-Server with redundant Servers and FactoryTalk Historian System with VantagePoint Reporting.

**Location:** Dubai, United Arab Emirates

**Client:** Emirates Global Aluminium (EGA)

**Boilers Controls Retrofit for the Combined Cycle Power Plant**

**Scope of Work:** Design, Supply, Installation, and commissioning of the Control Upgrade of the 8 Combined Cycle Turbine's Boiler Damper Positioners.

**Solution:** GE PLC with Acromag Signal Splitters and Siemens Pneumatic Positioners.

**Location:** Dubai, United Arab Emirates

**Client:** Dubai Aluminum

**Fume Treatment System Control Upgrade**

**Scope of Work:** Upgrade and Integration of the Fume Analyzer.

**Solution:** Allen-Bradley ControlLogix PLC System with Prosoft ASCII Communication Module, Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System.

**Location:** Dubai, United Arab Emirates

**Client:** Dubai Aluminum

**Desalination Plant SCADA Retrofit**

**Scope of Work:** Provide Redundant SCADA Stand-alone Stations for the Desalination Plant

**Solution:** Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System.

**Location:** Dubai, United Arab Emirates

**Client:** Dubai Aluminum

**UPS & Server Temperature Monitoring**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the Integrated Instrumentation, PLC, HMI, and Integration with the Plant SCADA System for Server Room Temperature Monitoring and UPS Monitoring.

**Solution:** Allen-Bradley CompactLogix PLC System and HMI.

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Emirates Aluminum

**SCADA System Expansion**

**Scope of Work:** Design, Supply, Installation, and Commissioning of 72" SCADA Clients in Different Locations of the Plant.

**Solution:** Rockwell Automation FactoryTalk View Site Edition SCADA Clients

**Location:** Abu Dhabi, United Arab Emirates

**Client:** Emirates Aluminum



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## **PROJECT REFERENCES**

### **TURBINE INLET COOLING PLANTS**

**Kingdom of Saudi Arabia:**

**Qurayyah Independent Power Plant Turbine Inlet Air Chilling (TIAC)**

**Scope of Work:** Design, Supply, and Commissioning of the Integrated Instrumentation, PLC, and HMI system and Integration with the Plant DCS.

**Solution:** Redundant Siemens S7400H PLC System; Siemens WinCC HMI Station, and Endress-Hauser Instrumentation system

**Location:** Dammam, Kingdom Saudi Arabia

**Client:** Hajir Electricity

**Republic of Iraq:**

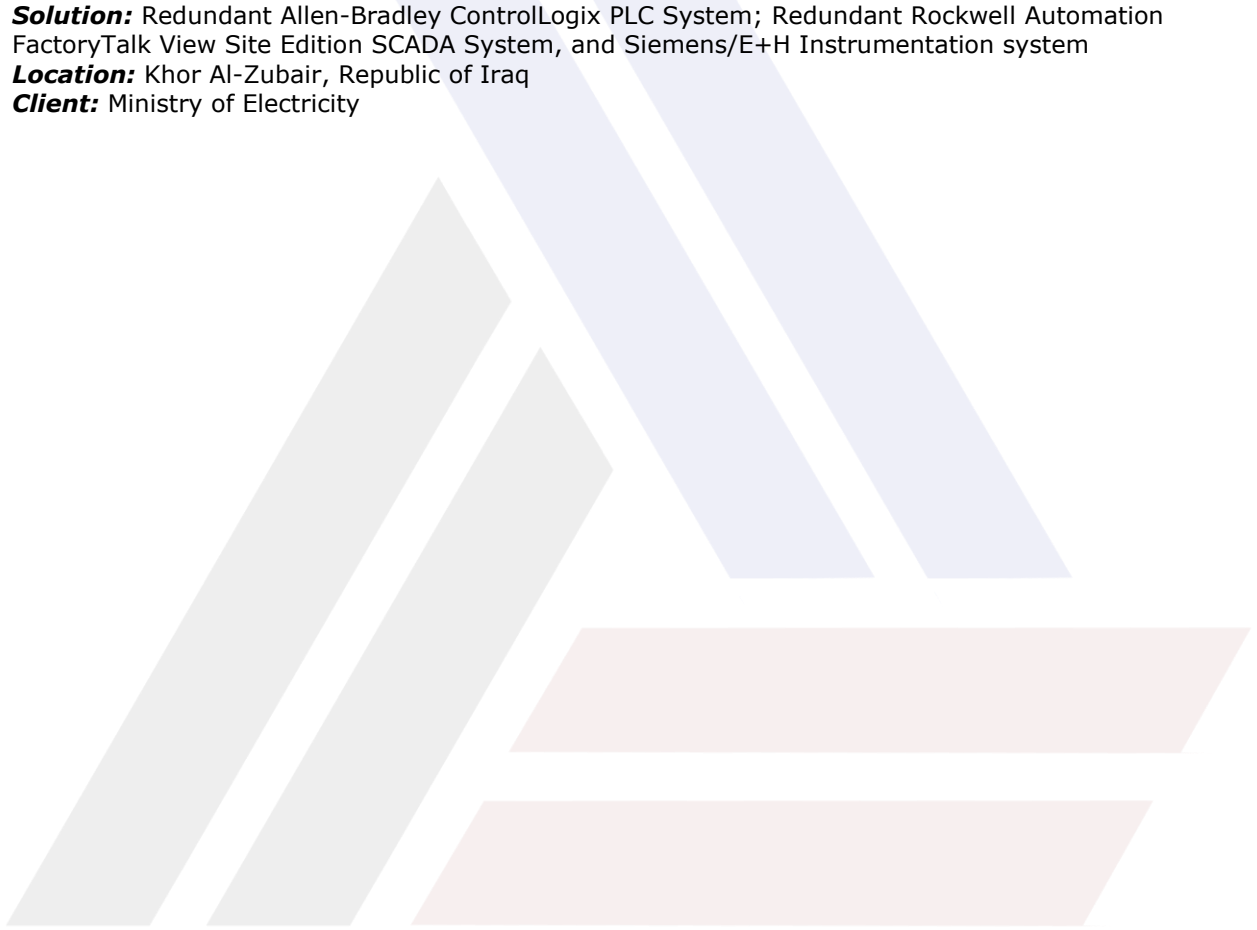
**Khor Al-Zubair Power Plant Turbine Inlet Air Chilling (TIAC)**

**Scope of Work:** Design, Supply, Installation supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA system.

**Solution:** Redundant Allen-Bradley ControlLogix PLC System; Redundant Rockwell Automation FactoryTalk View Site Edition SCADA System, and Siemens/E+H Instrumentation system

**Location:** Khor Al-Zubair, Republic of Iraq

**Client:** Ministry of Electricity





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## PROJECT REFERENCES ELECTRICAL SCADA & PMS

**State of Palestine:**

**Central Command and Control Center for Palestine Electricity Transmission Limited**

**Scope of Work:** Design, Supply, Installation, and Commissioning of a Central Command and Control Center for the Electrical Generation and Distribution for the West Bank, Palestine. This Phase Include the Servers and Workstations and the Integration of 4 Substations.

**Solution:** ETAP Real-Time Software with Historian, Reporting, and Analysis

**Location:** Ramallah, Palestine

**Client:** Palestine Electricity Transmission Limited

**Central Command and Control Center for Palestine Electricity Transmission Limited Phase II**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the Distribution Management System (DMS).

**Solution:** ETAP DMS system

**Location:** Ramallah, Palestine

**Client:** Palestine Electricity Transmission Limited

**Kingdom of Saudi Arabia:**

**Light Pole Monitoring and Control System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Light Pole RTU panel and Central Control Panel for monitoring and control.

**Solution:** Acromag Ethernet I/O with Fiber Optic Connectivity and

**Location:** Jeddah, Kingdom Saudi Arabia

**Client:** Ministry of Defense & Aviation

**SRF Island HV Switchgear SCADA**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the Electrical System SCADA System

**Solution:** Acromag Modbus TCP I/Os with FactoryTalk View and Kepware OPC server

**Location:** Jeddah, Kingdom Saudi Arabia

**Client:** Ministry of Defense & Aviation





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## PROJECT REFERENCES

### WATER & WASTEWATER

## **United Arab Emirates:**

### **Khuraijah Reservoir Control & Monitoring System**

**Scope of Work:** Design, Supply, Programming, Installation supervision, Testing, and Commissioning of control system for the Khuraija 9-tank Reservoir.

**Solution:** Redundant Schneider Electric M580 PLC and associated IOs with simplex EcoStruxure SCADA and integration with the main pumping station DCS

**Location:** Khuraija, RAK

**Client:** Etihad Water & Electricity (FEWA)

### **Sharjah Municipality Integrated Control System & VFD for Odor Control Unit**

**Scope of Work:** Design, Supply, Programming, Installation, Testing, and Commissioning of Odor Control Unit integrated control system and VFD for the Main Sewage Pump Station3.

**Solution:** Simplex Siemens Siplus S7-1200 PLC & IOs with 15" HMI and ABB VFDs.

**Location:** Sharjah Industrial Area

**Client:** Sharjah Municipality

### **SCADA Upgrade at Kalba Desalination Plant**

**Scope of Work:** Client-Server SCADA system hardware and software upgrade

**Solution:** provide a new set of IT hardware (servers & workstations) with the upgrade of the existing Siemens WinCC redundant client-server SCADA V6.2 to V7.5

**Location:** Kalba, Sharjah

**Client:** Sharjah Electricity and Water Authority (SEWA)

### **Um Al Quwain Pumping Station Control System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Redundant PLC and SCADA Control System.

**Solution:** Redundant Siemens S7-1500 PLC System with stand-alone WinCC SCADA System.

**Location:** Um Al Quwain, UAE

**Client:** Etihad Water and Electricity (FEWA)

### **IWPP Pumping Station 1 Control System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Redundant PLC and SCADA Control System.

**Solution:** Redundant Siemens S7-1500 PLC System with stand-alone WinCC SCADA System.

**Location:** RAK, UAE

**Client:** Etihad Water and Electricity (FEWA)

## **Kingdom of Saudi Arabia:**

### **Ras Al-Khair Sea Water Pipeline**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of 3 redundant PLC systems along the route of the sea water distribution pipeline with the integration with the seawater intake pump station SCADA, Historian, and Asset Management.

**Solution:** Rockwell Automation redundant ControlLogix for with the Integration with Rockwell Automation SCADA System installed in the pumping station.

**Location:** Ras Al Khair, Kingdom Saudi Arabia

**Client:** Royal Commission

### **Neom Circular City Water Storage Reservoir PLC & SCADA System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the 3 Redundant PLC systems and 4 simplex RTU for the east and west reservoir and tanker filling station with central redundant client-server SCADA System at each reservoir locations.

**Solution:** Redundant Siemens S7-1500 with WinCC Citect based SCADA and historian.

**Location:** Tabouk Province, Kingdom Saudi Arabia

**Client:** Neom

### **Al Zahraa Pumping Station Control System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Redundant PLC and SCADA Control System.

**Solution:** Redundant Siemens S7-1500 PLC System with redundant Client-server WinCC SCADA System.

**Location:** Jeddah, Kingdom Saudi Arabia

**Client:** Jeddah Municipality

### **Jeddah Economic City Phase-1 Infrastructure**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Redundant PLC systems for storm, irrigation, sewage, and domestic water pumping stations with central redundant client-server for all four pumping stations.

**Solution:** Redundant Schneider Electric M580 with ClearSCADA based SCADA and historian.

**Location:** Jeddah, Kingdom Saudi Arabia

**Client:** Jeddah Economic Company

### **Neom Water Transmission System**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the 12 Redundant PLC systems with central redundant client-server SCADA System.

**Solution:** Redundant Schneider Electric M580 with Vijeo Citect based SCADA and historian.

**Location:** Tabouk Province, Kingdom Saudi Arabia

**Client:** Neom

### **Medical Evacuation Center SCADA at King Khalid International Airport and Salbouk Air Base**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the 4 redundant PLC systems and 3 simplex RTU systems for different utilities and pumping stations at the King Khalid International Airport and Salboukh Airbase redundant client-server SCADA System at each location.

**Solution:** Redundant Schneider Electric M580 with Vijeo Citect based SCADA and historian

**Location:** Riyadh, Kingdom Saudi Arabia

**Client:** Royal Saudi Airforce

### **097-C73R Jubail Infrastructure Pumping Stations (Sewage, Potable, Lift)**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA System.

**Solution:** Honeywell ControlEdge PLC System; Honeywell Experion SCADA, and Endress-Hausser Instrumentation system.

**Location:** Al Jubail, Kingdom Saudi Arabia

**Client:** Royal Commission for Jubail & Yanbu

### **Government Agencies Compound Infrastructure & Utility (Grey Water, Drainage, Sewage, & Irrigation)**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the Integrated Instrumentation, PLC, and SCADA System.

**Solution:** Redundant Siemens S7400H PLC System; Redundant Siemens WinCC Server-Client, Historian with Reporting, and Siemens and Endress-Hausser Instrumentation system.

**Location:** Riyadh, Kingdom Saudi Arabia

**Client:** Ministry of Finance

### **Madina Haji City Infrastructure & Utility (Grey Water, Drainage, Sewage, & Irrigation)**

**Scope of Work:** Design, Supply, Installation supervision, and Commissioning of the Integrated PLC, SCADA, and Instrumentation System for the Development Infrastructure Including District Cooling Plants & ETS, Grey Water & irrigation Pumping Stations, Tunnel Ventilation System, and Central Command & Control Center.

**Solution:** Redundant Rockwell ControlLogix PLC systems; Redundant SCADA Client-server system; Redundant Historian System with Reporting; and E+H Instrumentation

**Location:** Al Madinah Al-Munawara, Kingdom Saudi Arabia

**Client:** Ministry of Finance

### **Ras Al-Khair Sea Water Pump Station**

**Scope of Work:** Design, Supply, Installation Supervision, and Commissioning of the integrated PLC, SCADA, Historian, Asset Management, Telecom, and Online Condition Monitoring System for Intake Seawater pumping station.

**Solution:** Rockwell Automation Redundant ControlLogix for pump control, hypo chlorination, and electrical switchgear. In addition to CompactLogix PLC for vibration monitoring system, with Rockwell Automation Client-server FactoryTalk SE SCADA System and Rockwell Asset Center.

**Location:** Ras Al Khair, Kingdom Saudi Arabia

**Client:** Royal Commission

**State of Qatar:**

**Lusail RO - Lusail City Development**

**Scope of Work:** Design, Supply, Installation, and Commissioning of the Integrated Instrumentation, PLC, and integration with the existing SCADA System.

**Solution:** Simplex Siemens S7-1500PLC System; integration with Redundant Siemens WinCC Server-Client, Historian and Reporting, and Siemens and Endress-Hauser Instrumentation system

**Location:** Doha, Qatar

**Client:** Marafeq Qatar

**Arab Republic of Yemen:**

**District of Dhamar Water Reservoir and Network Control & Monitoring System – Phase 1**

**Scope of Work:** Design, Supply, Installation supervision, and Commissioning of the electrical and control system for the water pumping (VFDs) from water wells distributed around the district of Dhamar to the district's central reservoir. Central SCADA system for monitoring and control of the district's water network in the over GPRS network, and Instrumentation.

**Solution:** Siemens VFD and S7-1500 PLC system with WinCC SCADA and E+H instrumentation

**Location:** Dhamar, Yemen

**Client:** UNICEF/ Ministry of Water - The Republic of Yemen

**Germany:**

**STA Separators for Automotive Engine Production Process Wastewater**

**Scope of Work:** Design, Programming, and Commissioning of the PLC & HMI System

**Solution:** Siemens Fail Safe PLC S7-317F-2 PN/DP, Siemens HMI, Profinet IO,

**Location:** Landshut, Germany

**Client:** BMW AG

**Taiwan:**

**Novoflow Ultra-filtration System for Latex-Process Wastewater**

**Scope of Work:** Design, Programming, and Commissioning of the PLC & HMI System

**Solution:** Siemens IM151-8 CPU, Siemens HMI

**Location:** Hsinchu, Taiwan

**Client:** Croslene Chemical Industries, LTD