

The background image shows two industrial workers on a blue metal platform. The worker on the left is wearing a white hard hat with a green 'SAFETY' sticker, safety glasses, and blue work clothes. He is looking towards the right. The worker on the right is also wearing a white hard hat, safety glasses, and dark work clothes. He is holding a tablet or a set of documents and looking at them. The overall scene is dimly lit, suggesting an industrial or offshore environment.

# 06 INSTRUMENTATION, CONTROL AND TELECOM

PROCUREMENT  
OPPORTUNITIES

# **INSTRUMENTATION, CONTROL & TELECOM**

THE FOLLOWING SPECIFIC PRODUCT GROUPS WITHIN INSTRUMENTATION, CONTROL AND TELECOM OFFER LOCAL MANUFACTURING POTENTIAL

**Process Control System (PCS)**

**Emergency Shutdown System (ESD)**

**Machine Monitoring System (MMS)**

**Fire & Gas Detectors & System**

**Programmable Logic Controller (PLC)**

**Control Valve**

# PROCESS CONTROL SYSTEMS (PCS) AND EMERGENCY SHUTDOWN SYSTEM (ESD)

## Overview



### Opportunity

- Limited manufacturing of the hardware components for PCS and ESD within UAE
- Wide range of applications across ADNOC Group
- R&D facilities ,Staging and testing facilities within UAE
- Good Potential in future for ADNOC MAC FWA
- Being part of long-term service agreement for system installed in AGC's



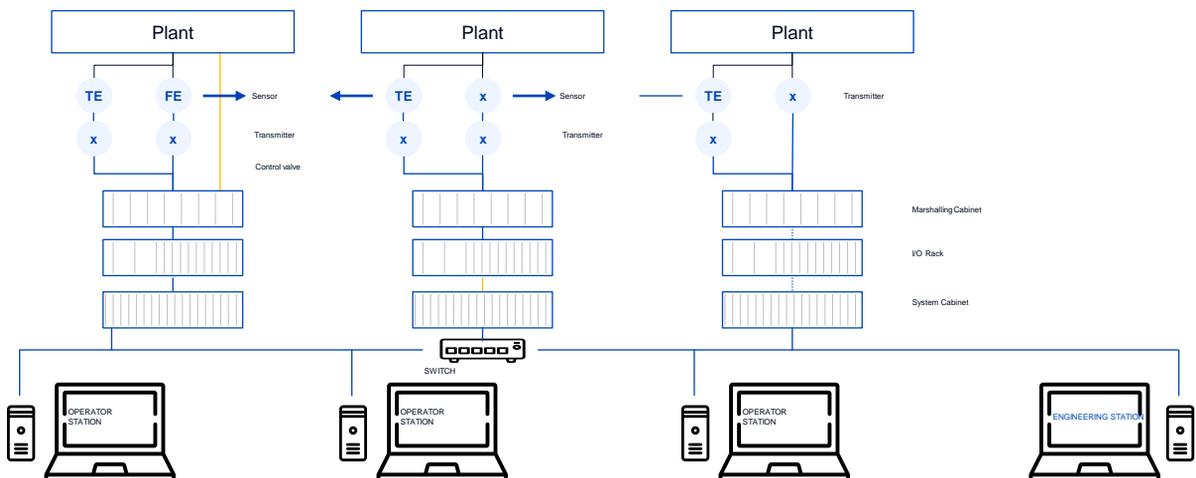
### Applications

- Upstream & Downstream
- Chemical & Petrochemical industries
- Steel & Nuclear industries
- Utility & Power Sector
- Pharma Sector



### ADNOC Standards / Specifications Requirements

- ADNOC Process Control System Specification AGES-SP-04-001
- ADNOC Emergency Shutdown System Specification AGES-SP-04-004
- International Code and standards IEC, ISA



# FIRE & GAS DETECTORS AND SYSTEMS

## Overview



### Opportunity

- Limited manufacturing of the hardware components for F&G within UAE
- Wide range of applications across ADNOC Group
- R&D facilities ,Staging and testing facilities within UAE
- Good Potential in future for ADNOC MAC FWA
- Being part of long-term service agreement for system installed in AGC's



### Applications

- Upstream & Downstream
- Chemical & Petrochemical industries
- Steel & Nuclear industries
- Pharma Sector
- Commercial Establishments & Buildings
- Utility & Power Sector



### ADNOC Standards / Specifications Requirements

- UAE Fire and Life Safety Code of Practice
- ADNOC Fire & Gas System Specification AGES-SP-04-003
- ADNOC Fire and Gas Detectors AGES-SP-04-011
- International Code and standards IEC, ISA ,NFPA



# PROGRAMMABLE LOGIC CONTROLLERS (PLC)

## Overview



### Opportunity

- Limited manufacturing of hardware components within UAE
- Wide range of applications across ADNOC Group
- R&D facilities , Staging and testing facilities within UAE
- Being part of long-term service agreement for system installed in AGC's



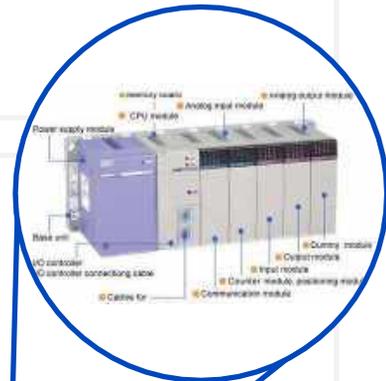
### Applications

- Upstream & Downstream
- Chemical & Petrochemical industries
- Steel & Nuclear industries
- Utility & Power Sector
- Pharma Sector
- Small scale to medium size process & non process industries



### ADNOC Standards / Specifications Requirements

- ADNOC Process Control System Specification AGES-SP-04-001
- ADNOC Programmable Logic Controller AGES-SP-04-018
- International Code and standards IEC,ISA



# MACHINE MONITORING SYSTEMS (MMS)

## Overview



### Opportunity

- Limited local manufacturing of hardware components within UAE
- Wide range of applications across ADNOC Group
- R&D facilities, Staging and testing facilities within UAE
- Being part of long-term service agreement for system installed in AGC's



### Applications

- Upstream /Downstream
- Chemical & Petrochemical industries
- Steel & Nuclear industries
- Utility & Power Sector



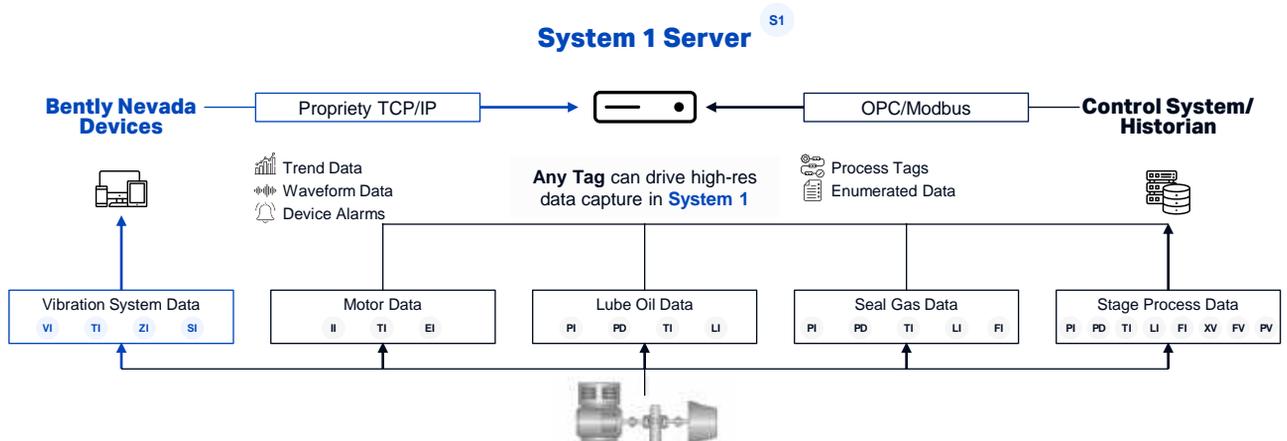
### ADNOC Standards / Specifications Requirements

- ADNOC Machinery Instrument System Specification AGES-SP-04-015
- International Code and standards IEC,API, ISA,ISO

## Connectivity + Analytics + Visualization = A Complete Solution



### Connectivity



# CONTROL VALVES

## Overview



### Opportunity

- Limited local manufacturing of hardware components within UAE
- Wide range of applications across ADNOC Group
- R&D facilities , Staging and testing facilities within UAE
- Better position in delivering spare parts & enhance major overhaul duration



### Applications

- Upstream & Downstream
- Chemical & Petrochemical industries
- Steel & Nuclear industries
- Utility & Power Sector
- Pharma Sector
- Other medium/Large scale industries



### ADNOC Standards / Specifications Requirements

- ADNOC Group Engineering Specification AGES-SP-04-002,
- International Code and standards IEC, API,ASME,ISA,ISO,NACE

