integration objects

PFE BOOK

2023 - 2024

Your career path for excellency starts with us !

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🌐 www.integrationobjects.com

Who we are

Integration Objects is a world-leading digital

Company for advanced solutions in industry 4.0,

IT-OT integration, industrial IoT (IIoT), cyber security,

big data analytics, integrated command & control

centers, for the process, power, energy, and utilities

industries as well as for defense and
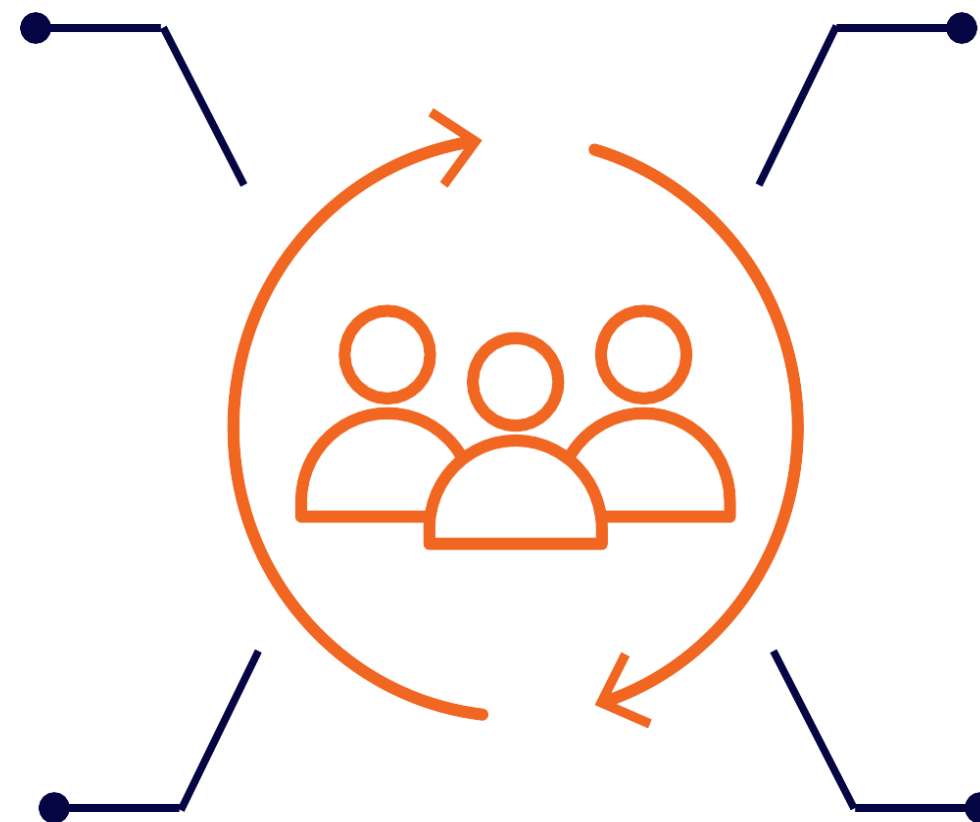
governmental Institutions.

Our Values

To maintain a good balance within our company, we rely on communication, innovation, reputation, environment, social commitment, responsibility, sharing, ambition, tolerance respect, transparency, security, optimism and humanity...

Team work

At Integration Objects, teamwork is vital for our success. We feel, act and behave as one big team.

Commitment

We honor all our commitments because integrity is important to us.

Respect

We value the talent, time and intentions of everyone we work with.

Communication

We are open, clear, direct and honest in our communications.

Our customers

Our customers are located on five continents and include the largest industrial companies in the world such as ExxonMobil, Total Energies, Chevron, Saudi Aramco, BG, and Glencore.

1 Design and Implementation of A Remote Conveyor Belt Control System
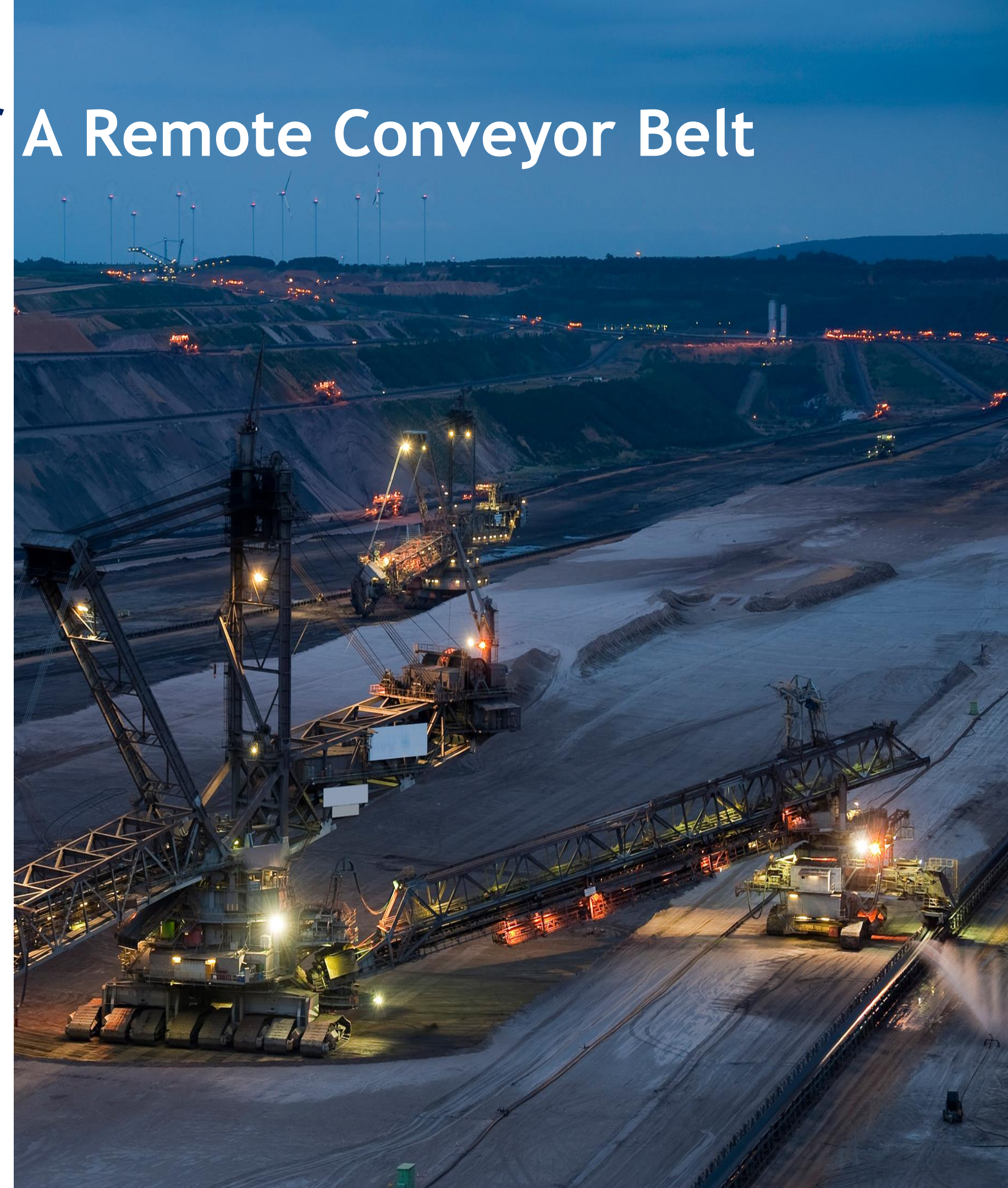
ABSTRACT

Realization of complete study for the design and implementation of a remote conveyor belt control system

DELIVERABLES

- Research and documentation on the industrial automation main technologies and communication protocols (SCADA, DCS, RTUs, PLC, OPC, Modbus, DNP3, etc.)
- Study the design input documents.
- Study, development and design of the supervisory control and data acquisition system architecture and technical solution.
- Study, development, and design of communication protocols.
- Study, development and design of the control system cabinets.
- Study, development and design of loop diagrams and control logic.
- Configuration, programming and developing human machine interfaces,
- Test and Internal deployment of the system.

KEY WORDS

RTU, SCADA,OPC, Modbus, Telemetry, Mining Industry

2 Study Development and Design of an Oil Site Integrated Control And Safety System

ABSTRACT

Realization of complete study for an integrated control and safety system including development of instrumentation, communication, control logic and human machine interfaces.

DELIVERABLES

- Research and documentation on the industrial automation main technologies and communication protocols (SCADA, DCS, RTUs, PLC, OPC, Modbus, DNP3, etc.)
- Study the design input documents.
- Study, development and design of the integrated control and safety system architecture and technical solution.
- Study, development and design of fire and Gas instrumentation.
- Study, development, and design of communication protocols.
- Study, development and design of Control and Safety system cabinets.
- Study, development and design of loop diagrams and control logic
- Configuration, programming and developing human machine interfaces,
- Test and Internal deployment of the system.

KEY WORDS

DCS, ICSS, F&G, Modbus, Safety System, Oil and Gas Industry

3 Study Development and Design Of SCADA System for a Gas Pipeline
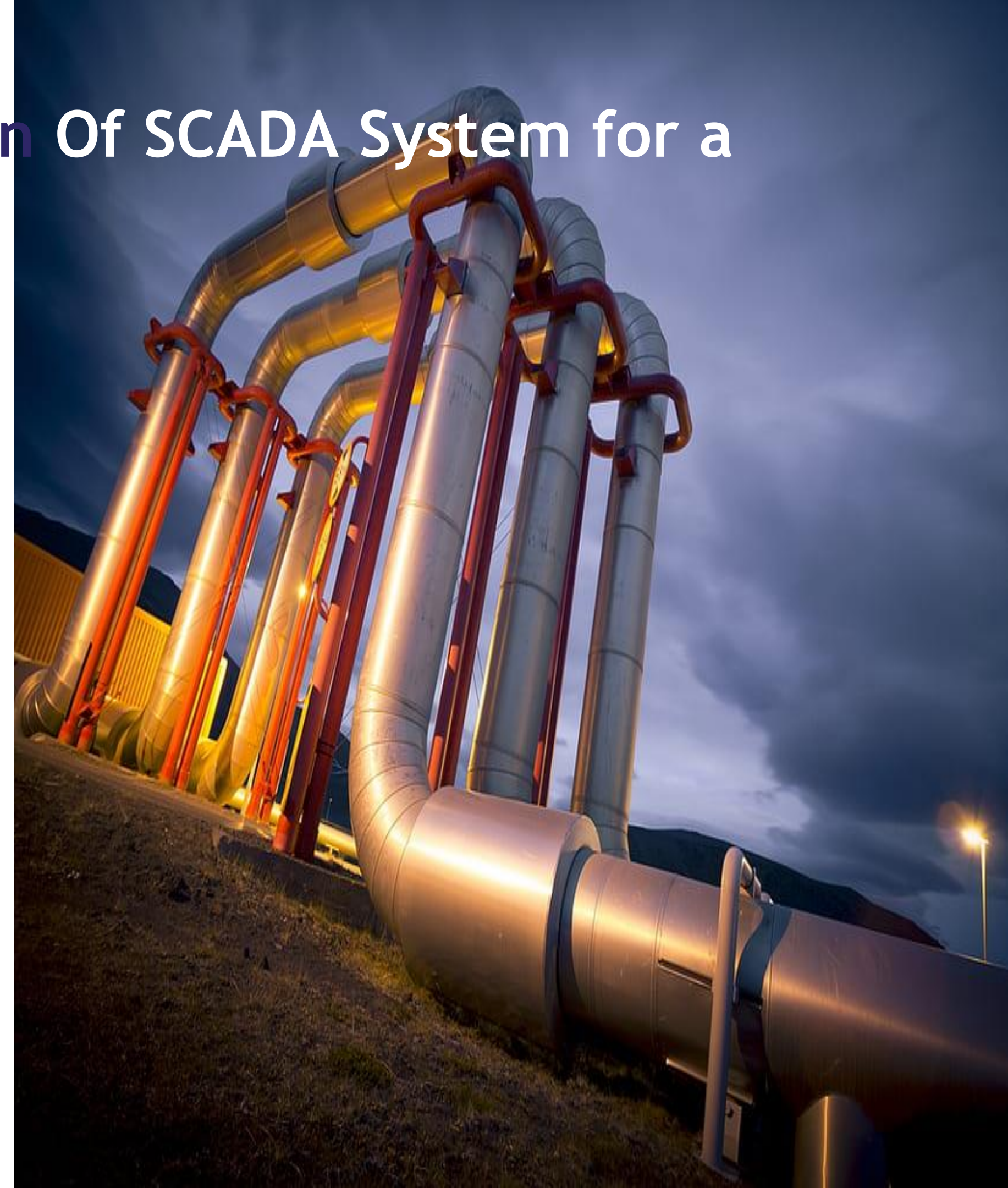
ABSTRACT

Realization of complete study for SCADA System for a gas pipeline including Safety Instrumented System.

DELIVERABLES

- Research and documentation on the industrial automation main technologies and communication protocols (SCADA, DCS, RTUs, PLC, OPC, Modbus, DNP3, etc.)
- Study the design input documents.
- Study, development and design of the control system architecture and technical solution.
- Study, development, and design of communication protocols.
- Study, development, and design of process control logic
- Configuration, programming and developing human machine interfaces,
- Test and Internal deployment of the system.

KEYWORDS

SIS, PLC, RTU, HMI, PLC, ESD, Oil&Gas Industry

4 Engineering And Implementation Of Gas Wells And Manifolds Telemetry System
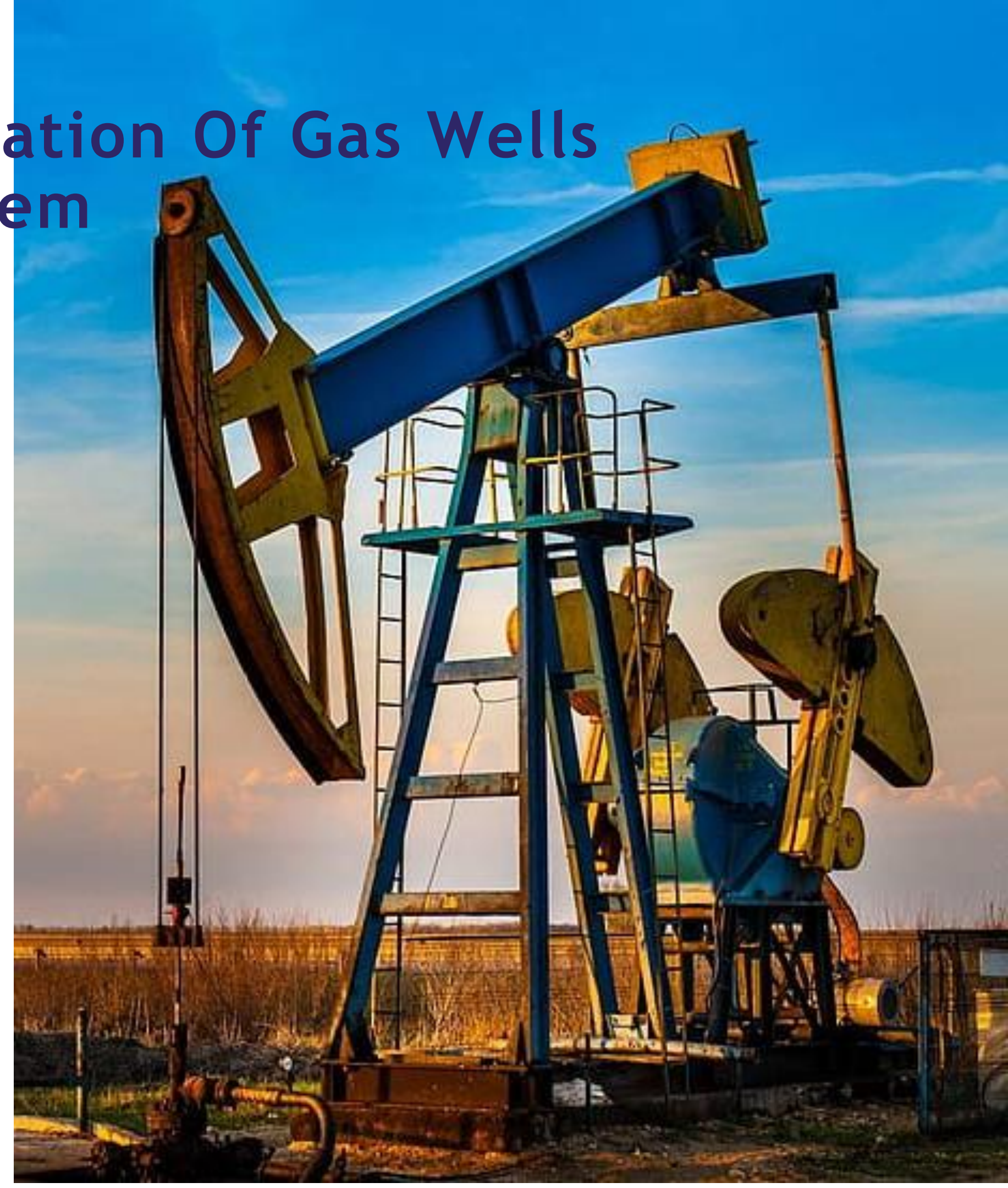
ABSTRACT

Design and implementation of a Telemetry System to collect Gas wells and Manifolds data.

DELIVERABLES

- Research and documentation on the industrial automation main technologies and communication protocols (SCADA, DCS, RTUs, PLC, OPC, Modbus, DNP3, etc.)
- Study the design input documents.
- Study, development and design of the control system architecture and technical solution.
- Configuration of communication protocols.
- Study, development, and design of process control logic
- Configuration, programming and developing of human machine interfaces,
- Test and Internal deployment of the system.

KEY WORDS

DNP3, RTU, HMI, OIL&GAS, TELEMETRY.

5 Study Development And Design Of A Telemetry And Surveillance System For A Gas Pipeline

ABSTRACT

Realization of complete study for Telemetry System and Surveillance system for a gas pipeline.

DELIVERABLES

- Research and documentation on the industrial automation main technologies and communication protocols (SCADA, DCS, RTUs, PLC, OPC, Modbus, DNP3, etc.)
- Study the design input documents.
- Study, development and design of the control system architecture and technical solution.
- Study, development and design of the surveillance system architecture and technical solution.
- Study, development, and design of communication protocols.
- Study, development, and design of process control logic
- Configuration, programming and developing human machine interfaces,
- Test and Internal deployment of the system.

KEY WORDS

MQTT, PLC, RTU, HMI, PLC, NVR, SECURITY, Oil & Gas Industry

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