

ELECTRICAL & CONTROL ENGINEERING

ENERGY & INDUSTRY

Everywhere

Everyone

Everything

Engineering





Electrical & Automation Solutions

+15 years Experience

International experience

+ 40 Large-scale Projects Delivered

+ 5,000 MW Installed and Connected

End-to-end coverage

Advisory, Owner's & Detailed Engineering
Cabinets & E-House Turnkey Solution

Global and strategic vision

Design & Schedule Optimization

+ €600M Managed in EPC Projects (PMP®)

Dynamic and Client-Focused





**AI
INFRASTRUCTURES**



**Energy Storage
Data Center**



**AIS/GIS Substation
Synchronous Condenser
MV/HV Distribution**



**GRID
INFRASTRUCTURES**



**POWER
GENERATION**



**Combined Cycle
Gas/Fuel Engines
Wind & Hydro**



**Manufacturing
Oil & Gas
Water
H2**



INDUSTRY

FROM ENGINEERING SERVICES...

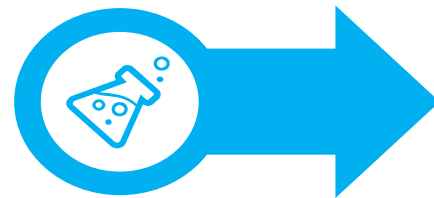


... TO FULL DELIVERY



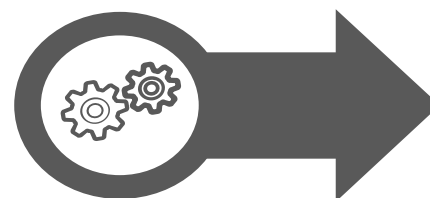
LEVEL 1

**BASIC AND
DETAILED DESIGN**



LEVEL 2

**EQUIPMENT
INTEGRATION**



LEVEL 3

MANUFACTURING



LEVEL 4

**TESTING &
COMMISSIONING**

 **Electrical & Control Design**

 **Studies & Calculation**

 **Automation**

 **OT Cybersecurity**

 **Low Voltage & Control Cabinets**

 **Skids Integration**

 **Containerized Solutions**



TAILOR-MADE SERVICES



GREENFIELD & BROWNFIELD



SKIDS

PACKAGE PLANTS

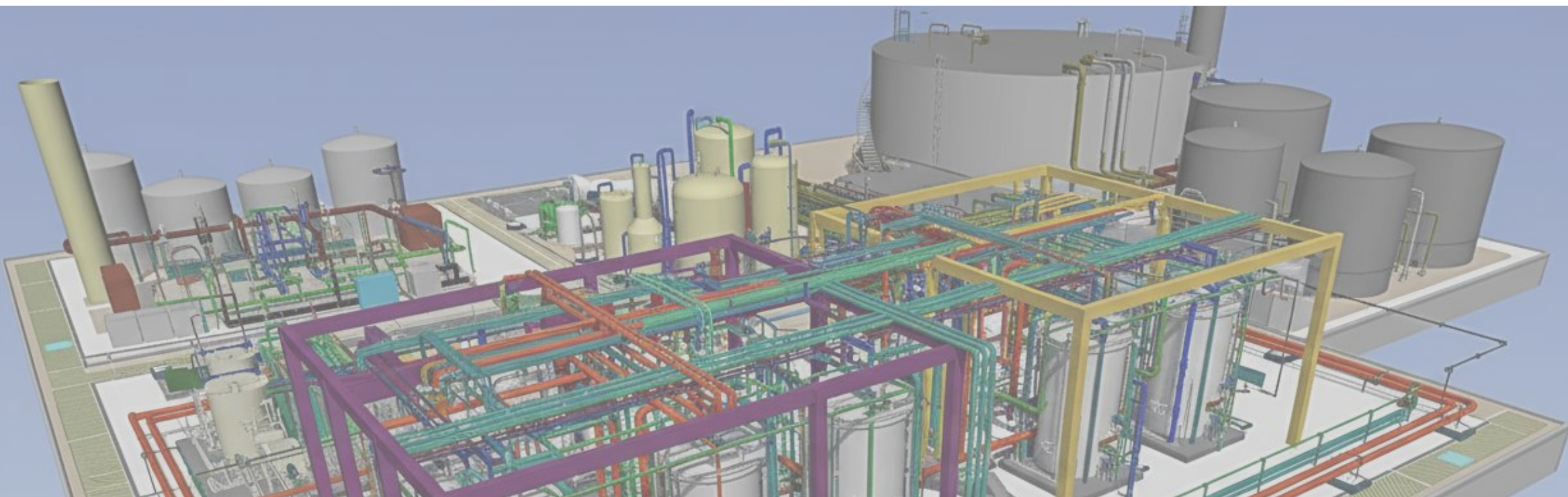
MECHANICAL SYSTEMS



LARGE-SCALE PLANTS

INTEGRAL INDUSTRIAL FACILITIES

WATER CYCLE – BOILER – H₂ – AIR/WATER COOLING - GAS SKIDS – HANDLING & MINERY

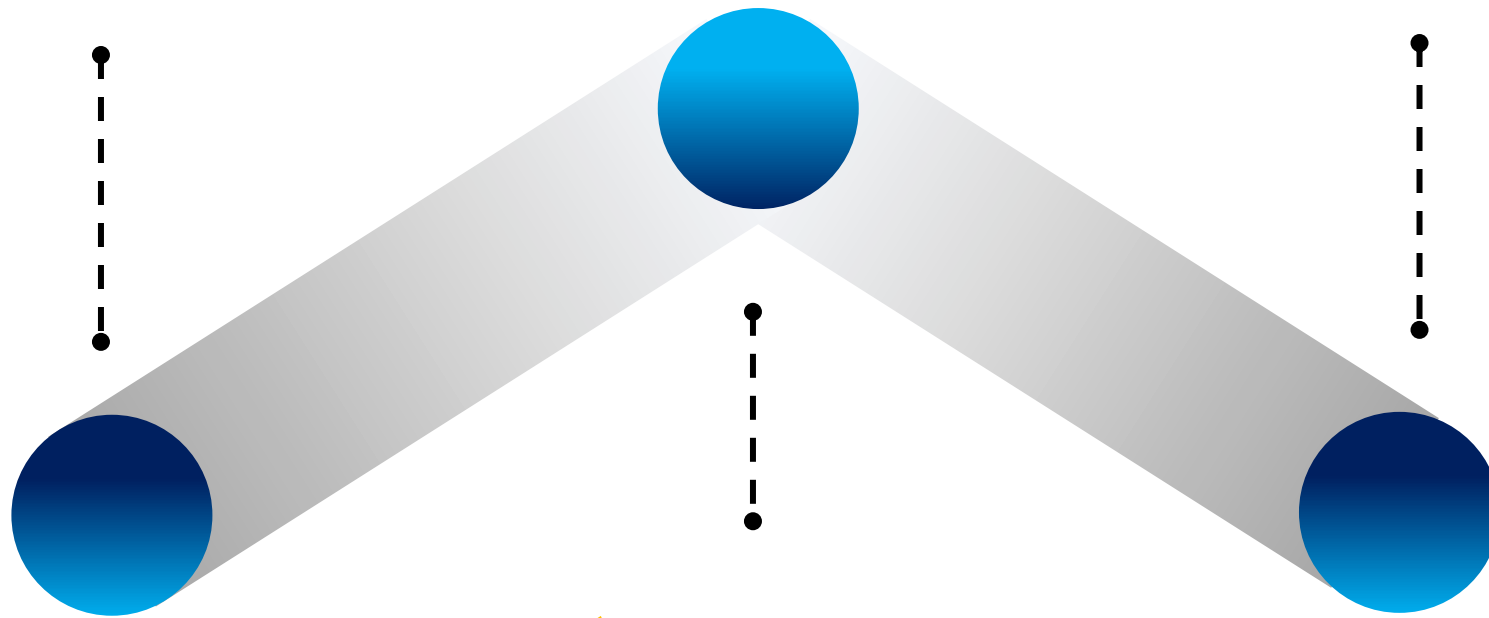


 **IEC 61850**

SCADA Configuration
GOOSE Trips & Interlocks
Redundancy Implementation

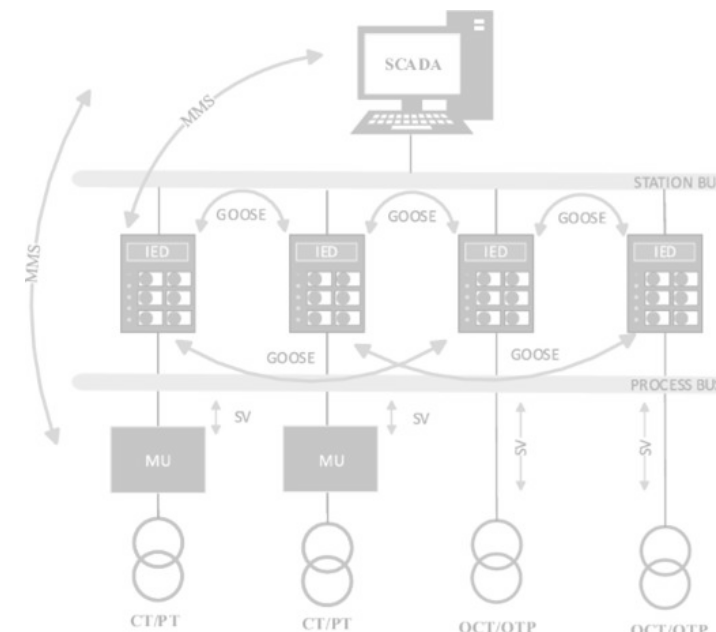
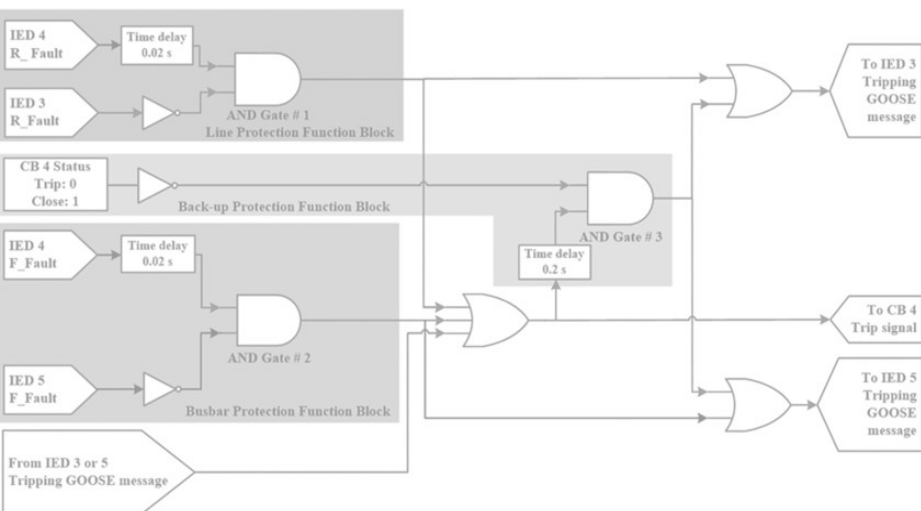
 **SETTINGS**

Protection Calculation
Alarm Configuration
Group Setting Requirements



 **LOGIC**

ATS Configuration IEEE 666
Interlocks and Logic
Development

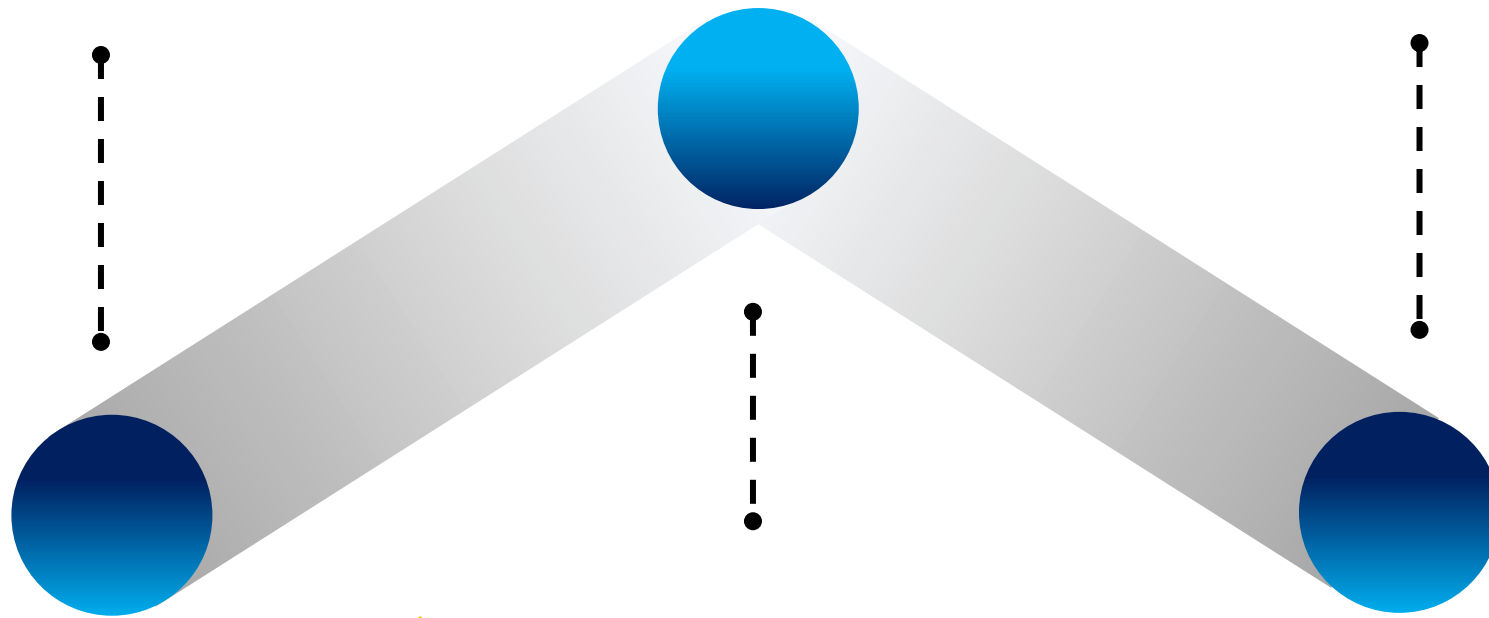


 **NETWORK DESIGN**

Logical / Physical Segmentation
Network Design & Configuration
Virtual Infrastructure

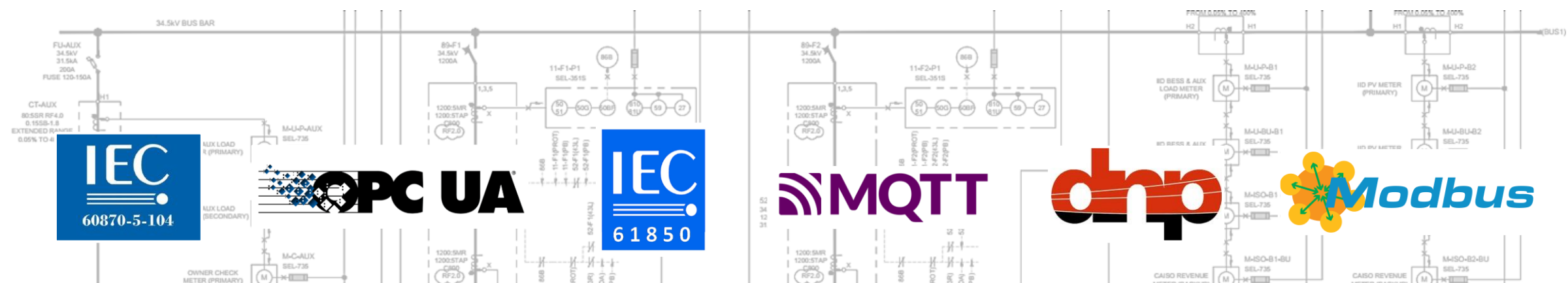
 **COMMUNICATION**

High Availability HSR+PRP+RSTP
Industrial Standards and Protocols
Industry & Electrical Infrastructure



 **SYSTEM INTEGRATION**

Integration with DCS, PLCs, SCADA
Protocol Translation and Gateways
Legacy Network Revamp





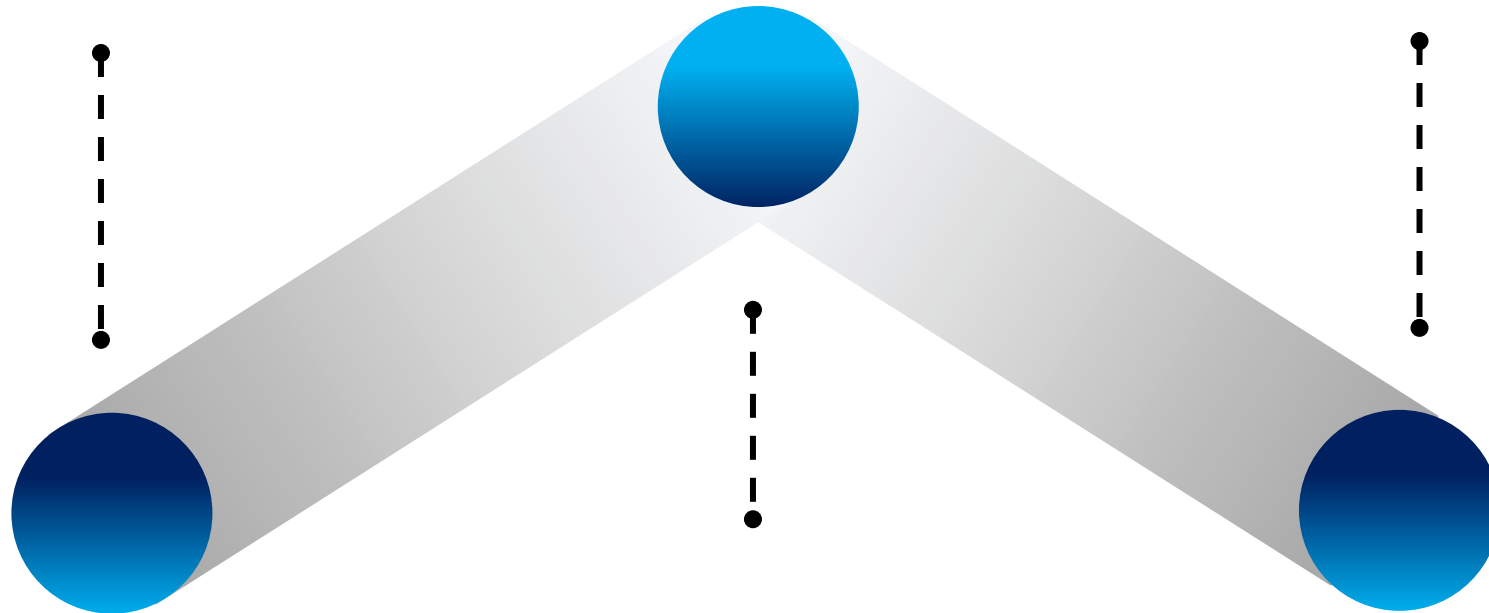
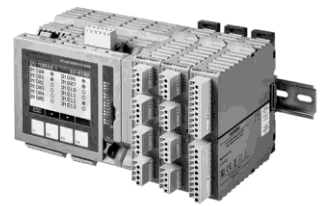
ECS/DCS ENGINEERING

Design, Configuration
and Commissioning
Electrical, Energy and Industry



PLC & SCADA - IEDs

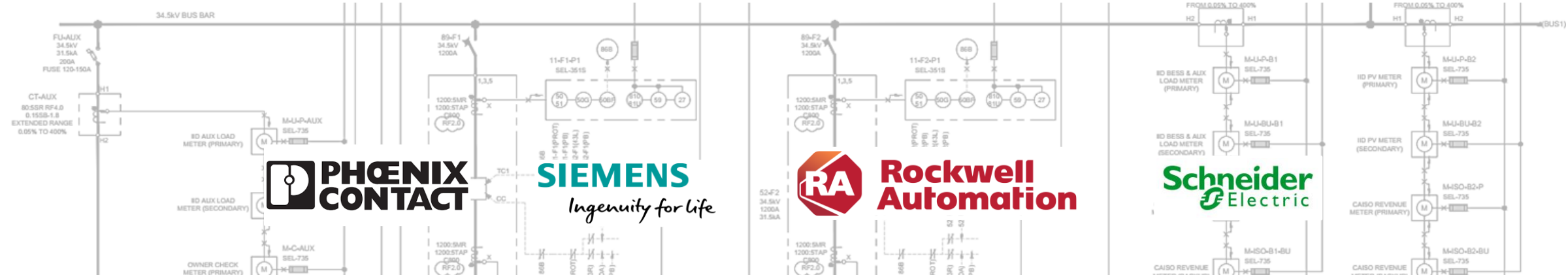
Control Logic Development
Alarm Management and Historian
ISA-101 Principles



LEGACY SYSTEMS

Enhancement & Migration
Integration with IoT, Edge Computing
and Hybrid Cloud Solutions

Omnivise T3000 – Simatic PCS NEO – Simatic PCS7 – PLC Next – Plant Pax - Foxboro

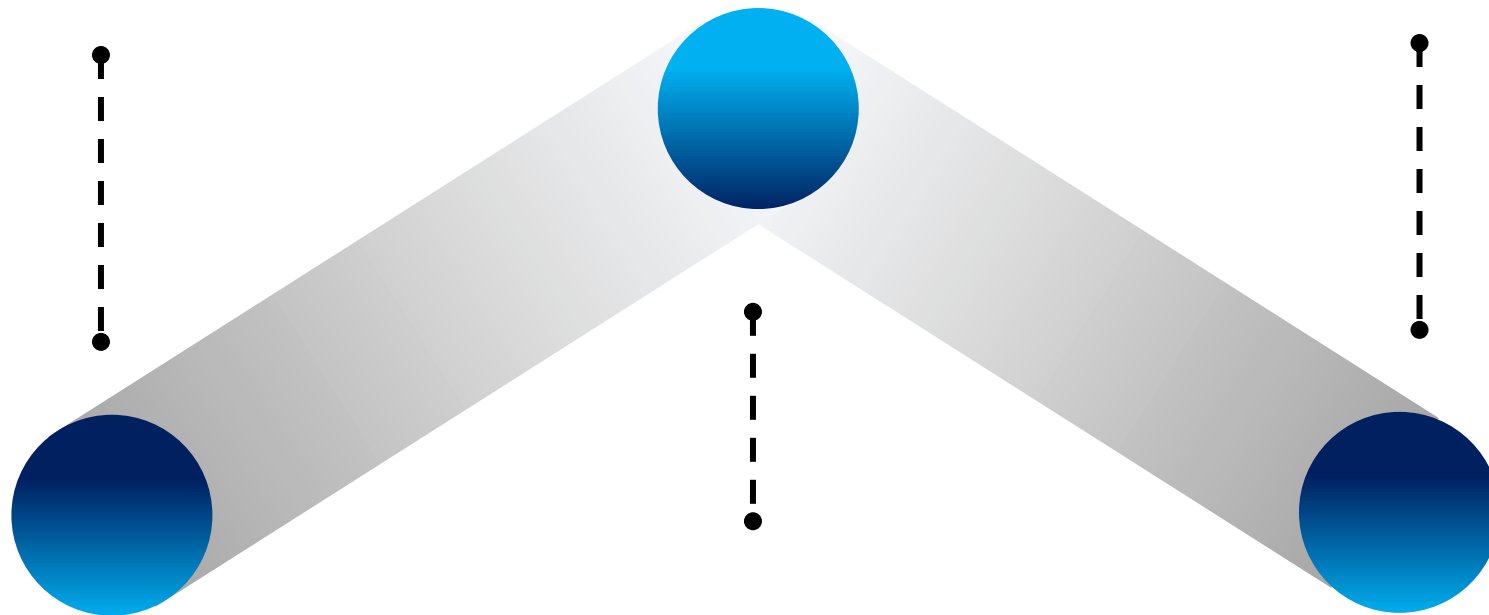


 **OT ASSESSMENT**

Compliance Analysis
Audits and Pentesting
Regulatory and Standards

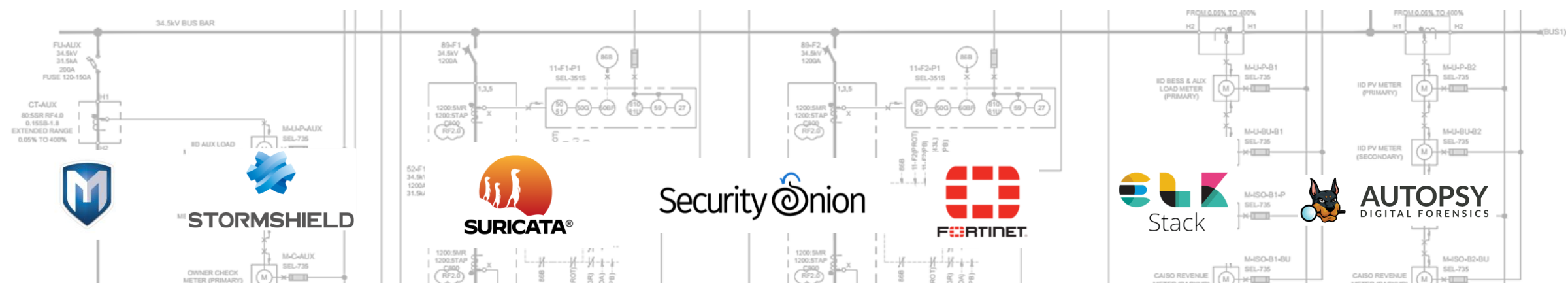
 **VULNERABILITY**

Analysis
Remediation
Risk Mitigation Strategies



 **CYBERSECURITY BY DESIGN**

Control System Hardening
Industrial Network Protection
Continuous Monitoring & Advanced Anomaly Detection





DESIGN

Detailed Wiring Diagram
Material Lists inc. Purchase
Mechanical Drawings



FACTORY

Laboratory & Full Development
MV, LV, PC&M Capability



TESTING

IEC 61850 & Comm. Simulation
Primary & Secondary CT/VT Test
Secondary Circuit Testing



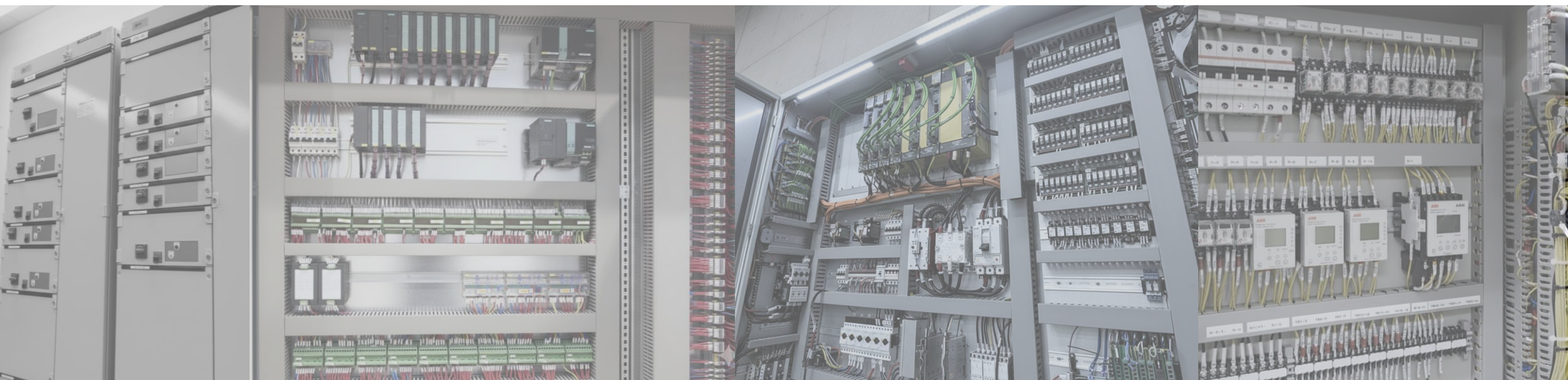
LV SWGR. & MCC

PROTECTION

CONTROL (PLC, I/O)

AC/DC DISTRIBUTION

JUNCTION BOX / LCP





TURNKEY SOLUTION

Electrical & Mechanical Design
E-House Manufacturing
HVAC, Lighting & Fire Fighting Installation
E&C Cabinet Integration
Full Package FAT Test Certificates



CUSTOMIZED DESIGN

ISO Std. Maritime vs Customized Size
Up to three Modules Room ($\approx 120 \text{ m}^2$)
Seismic up to High Performance (IEC 693)
ATEX Certifications
Fire Rating up to EI240
Colors and Paint Durability





SIEMENS

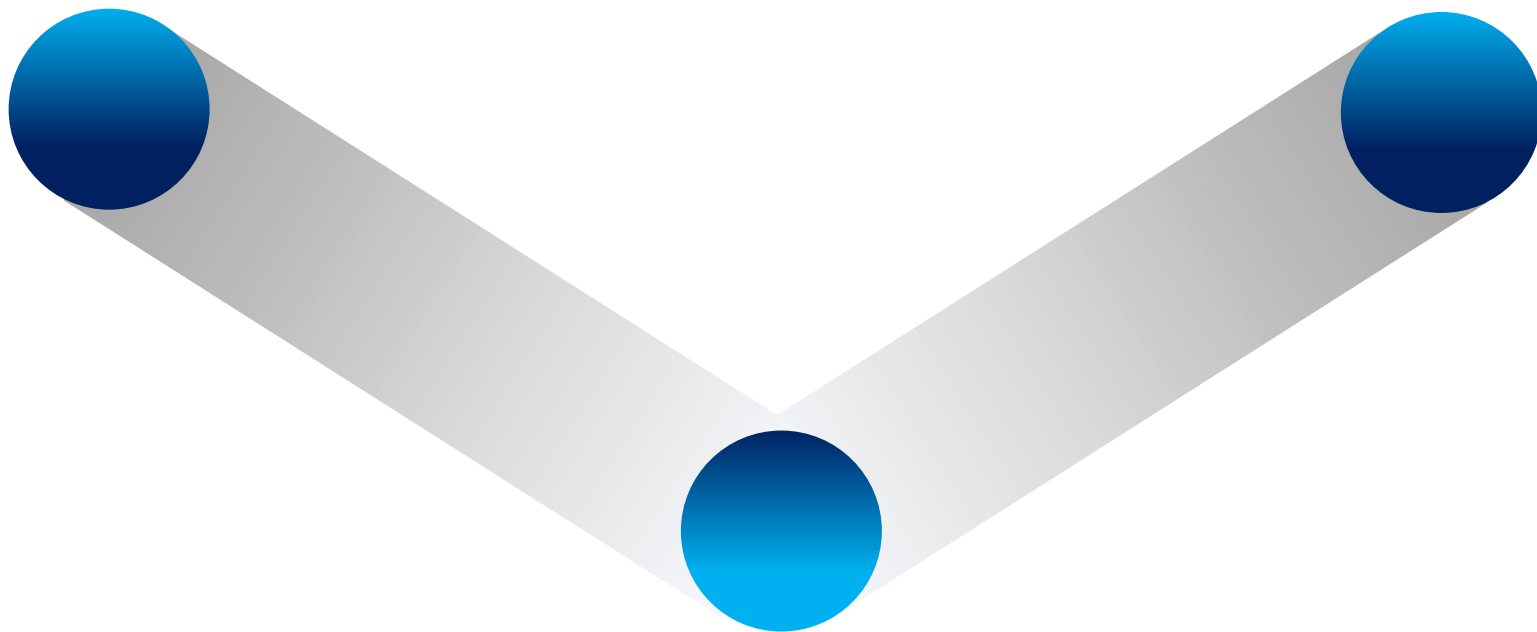


ELECTRICAL CONTROL & PROTECTION

Protection & Control Relays
Substation Control & Automation Solutions

INDUSTRIAL NETWORKS & CONTROL

Industrial PLC & HMI
Managed Switches & Communication Devices



OT CYBERSECURITY

Certified solutions for the protection of Industrial Infrastructures
and Automation Environments





SUPPLY CHAIN QUALIFICATION



MEMBER ORGANIZATIONS



REGISTERED SERVICE PROVIDER





RENEWABLE & STORAGE

- Thermosolar Power Plant 50 MW (Kuwait, 2018)
- Noor I Midelt Hybrid Solar Power Plant Early Works (Morocco, 2020)
- BELENOS Thermal Energy Storage Pilot Plant (Spain, 2020)
- HPS2 High Performance Solar (Portugal, 2021)
- 200 MW & 207 MW Hydraulic Power Plant Ivirizu & Miguillas (Bolivia, 2023)



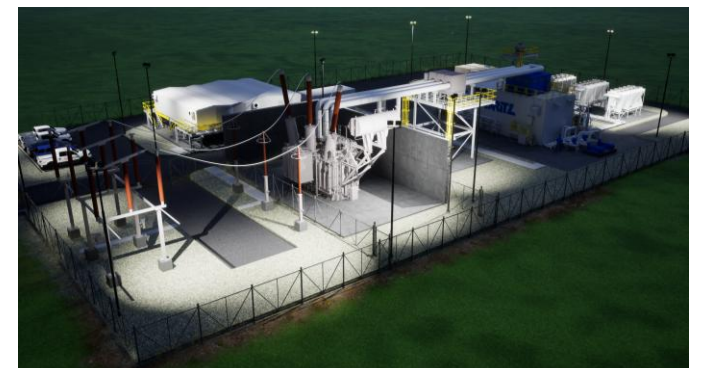
TRANSMISSION & SUBSTATIONS

- 220kV, 132kV & 66 kV AIS Substation (Chile, 2022)
- 400kV El Sauz GIS Substation (Mexico, 2024)
- 115kV El Sauz Underground Transmission Line (Mexico, 2024)
- 400kV & 230kV Salamanca Overhead Transmission Line (Mexico, 2024)
- 400kV & 230kV Salamanca AIS Substation (Mexico, 2024)
- 138kV AIS Substation (Dominican Republic, 2024)
- 50 kV-400 kV AIS REE Substations (Spain, 2025)



SYNCHRONOUS CONDENSERS

- 250MVA HISC Alytus, Telsai, Neris (Lithuania, 2021)
- 50MVA HISC Gretna, Sellindge, Cilfynydd (UK, 2022-2023)
- 250MVA HISC Emmshaven, Amaliahaven, Nieuwdorp (Netherlands, 2025)
- 50-200MVA SynCon Cartuja-Martelilla (Spain, 2026)
- 200MVA Hybrid BESS & 60MVA SynCon Cerrillo, Palmosilla (Spain, 2026)



**INDUSTRY**

- Cement Grinding (Spain, Lebanon and Morocco, 2007-2009)
- Coke Side Dedusting Tubarao (Brasil, 2016)
- Stacker/Reclaimer Machines (x2) for Steel mill (Wales, 2019)
- Clinker Line Chimborazo (Ecuador, 2019)
- LNG Regasification Plant El Musel (Spain, 2022)
- Stacker/Reclaimer/Belts (4km) for Dibba Port (UAE, 2023)
- Handling & Mining - Laverie Benguerir (Morocco, 2023)
- Retractable Pitch Santiago Bernabéu (Spain, 2023)
- Sugar Plant – Mill, Refinery and Packaging (Tanzania, 2024)
- Water Treatment Plant Navacerrada (Spain, 2025)
- Handling & Mining - Gypsum Crushing & Screening Line (Spain, 2025)
- Water & Wastewater Treatment Plants associated to CCPP (+10)

**POWER GENERATION**

- 860 MW 2x1 Besos V Combined Cycle Power Plant (Spain, 2010)
- 240 MW 2x1 Granadilla II Combined Cycle Power Plant (Spain, 2011)
- 50 MW Muskiz Petronor Cogeneration Plant (Spain, 2012)
- 340 MW 2x1 San José de Sucre Open Cycle Power Plant (Venezuela, 2013)
- 120 MW Ressano García Gas Engine Power Plant (Mozambique, 2014-2015)
- 270 MW Sharm El Sheikh Open Cycle Power Plant (Egypt, 2016-2017)
- 270 MW Urghada Open Cycle Power Plant (Egypt, 2016-2017)
- 90 MW Port Said Open Cycle Power Plant (Egypt, 2016-2017)
- 230 MW 3x1 Renaissance Combined Cycle Power Plant (Jamaica, 2018-2019)
- 50 MW Combined Heat & Power Plant (Jamaica, 2020)
- 475 MW Multisite Diesel Engine Power Plant (Chile, 2021)
- 65 MW Kekeli Tri-Fuel Power Plant (Togo, 2021)
- 420 MW 2x1 Atinkou Combined Cycle Power Plant (Ivory Coast, 2022)
- 450 MW 5x1 Temane CTT Combined Cycle Power Plant (Mozambique, 2023)
- 270MW El Sauz 2x1 Combined Cycle Power Plant (México, 2024)
- 450MW San Luis Potosi 2x1 Combined Cycle Power Plant (México, 2024)
- 850 MW Salamanca 2x1 Combined Cycle Power Plant (México, 2024)
- 467 MW 2x1 Energas Combined Cycle Power Plant (Dominican Republic, 2025)



Applus⁺


SAINT-GOBAIN


CORTEVA
agriscience

red eléctrica

ABB

Grupo
TYPSA

 **suez**

SIEMENS
energy


الشركة السعودية للكهرباء
Saudi Electricity Company
نعمل بانفتاح من أجلكم


hunosa

TSK

 **tennet**

 **acciona**

PROINELCA
POWER

 **circe**
CENTRO TECNOLÓGICO

Schneider
Electric

Qualitas
energy

iQUORD
Dreams
plugged in


euskabea

Indar
An **Ingeteam** brand

ANDRITZ
Hydro


ENGIE

...

*Together for innovation,
responsibility, and
sustainability*



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