



**Solutions
and Products**



Digital Smart Group

**Empowering Smart
Technology Companies**



Overview



Markets



Partners



Contact



Services



Digital Smart Group

Technologies that enable a more sustainable and resource-efficient future across the energy and industrial sectors

Our technologies help the digital transformation and modernization of our customer's **critical infrastructure**

We help accelerate the adoption of technology by providing customized solutions, expert consulting, and seamless integration services.



Happy customers

Some of our satisfied clients:



Digital Smart Group



Electrolumen



Taghleef Industries

Ingeteam



Green Power



Aena



Hitachi Energy



ArcelorMittal



MOLINOS
DEL EBRO



Energy Solutions
Soluciones en Media y Alta Tensión

SIEMENS



Endesa

SPIE



SIEMENS
energy



Agbar

FINGRID



VEOLIA



edp
Renewables



arteche



VEOLIA
WATER

Life Is On

Schneider
Electric

Caverion



GRAFTECH
International



RED
ELÉCTRICA
DE ESPAÑA

SEL

SCHWEITZER
ENGINEERING
LABORATORIES

ABB

STADLER





Digital Smart Group

Technology solutions, products, and services.

IEC61850 DIGITAL GRID | IIoT SOLUTIONS | OT CYBERSECURITY | ENERGY EFFICIENCY |
SMART VIDEO SURVEILLANCE | PREDICTIVE MAINTENANCE | CONDITION BASED
MAINTENANCE | MONITORING and DIAGNOSTICS POWER TRANSFORMERS | IED ACCESS
CONTROL SECURITY | ENERGY STORAGE SYSTEMS | PROTECTION RELAYS | HIGH and
LOW VOLTAGE TRANSFORMERS | CAPACITORS and REACTORS | INDUSTRIAL ETHERNET |
REMOTE TERMINAL UNITS | SCADA | FAULT DETECTORS | PROTOCOL CONVERTERS



Strategic Partners



Digital Smart Group

We are proud to cooperate with the strategic partners below



Sustainability



Our sustainability strategy is built on six key pillars:

01

Energy Efficiency:

Implement energy-efficient products and predictive maintenance to reduce energy consumption.

02

Renewable Energy Integration:

Promote renewable energy sources and provide storage solutions.

03

Smart Technology Implementation:

Enhance efficiency and sustainability with IIoT, video surveillance, and condition-based maintenance.

04

Cybersecurity and Resilience:

Ensure robust cybersecurity for critical infrastructure with OT solutions and secure IED access control.

05

Waste Reduction and Resource Optimization:

Minimize waste and optimize resources using advanced technologies and power quality improvements.

06

Sustainable Innovation and Development:

Foster innovation, invest in R&D, and support the transition to net-zero operations.

Energy



We promote the **adoption of digitalization** in electricity generation plants, distribution and **renewable energy sectors** to increase efficiency and quality of supply while **improving the quality of service**.

We provide solutions and capabilities **to fully leverage** new technologies and opportunities

Our offer is a mix of the latest technologies and standard products or **solutions** available in the market.

The optimization **innovation** and adoption of the latest and robust technologies allow Utilities continuity of power supply which is **essential** in making sure that electricity reaches homes and businesses at all times.

Industry

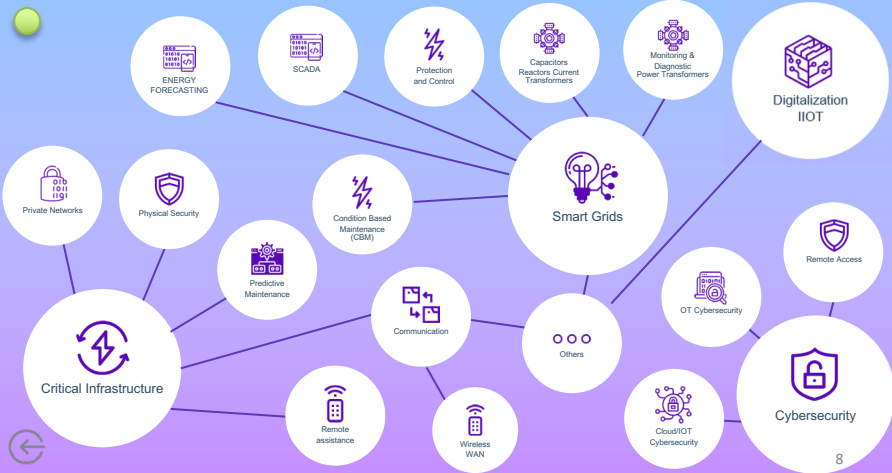


We understand the **industry** and its **challenges**. The adoption and implementation of our technologies help customers to produce more **efficiently** and **cleanly**, save energy, and reduce downtime.

Our solutions contribute to efficiency, cost optimization, security, and enhanced reliability.

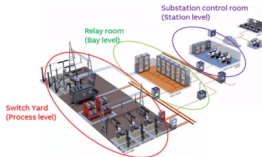
Businesses **adopting** and **embracing** it will ensure their continued existence.





Benefits

1. Multi-Channel Power System Monitoring Digital Recorder (FDR)
2. Phasor Measurement Unit (PMU)
3. Synchro-phasors Streaming
4. IEC 61850 GOOSE messages / HSR-PRP
5. Disturbance and Fault Data Recording/Logging and Analysis
6. Sub-harmonic Protection (Generators, Wind turbines and SVC)
7. Detects and protects from Sub-Synchronous Resonance (SSR)
8. Disturbance Source/Origin Identification / Trouble-shooting



Applications

1. Generation / Transmission / Renewables
2. Electric substations, Solar Farms, Wind Farms, Energy Storage
3. Industrial Automation

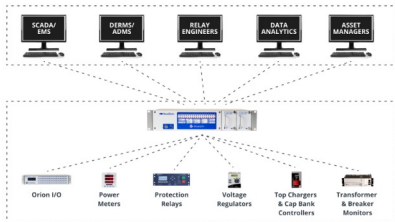


Applications

1. Generation / Transmission / Distribution / Renewables
2. Electric substations, Solar Farms, Wind Farms, Energy Storage
3. Water and Gas Utilities
4. Industrial Automation
5. Transportation

Benefits

1. SCADA / Monitor & Control
2. OMS / Outage Management System / Track & Restore
3. ADMS / Advanced Distribution Management System / Analyze and Optimize
4. Greater network reliability and operational efficiency
5. Improved situational awareness, faster decision-making
6. Cost savings with Outages process workflows
7. AGC / Automatic Generation Control
8. Disturbances 'before & after' snapshot
9. Disturbance and Fault Data Recording/Logging and Analysis



Applications

Precision Time Synchronization:

- Ensures accurate time-stamping of data across SCADA systems, protection relays, and event recorders in power networks.

Grid Event Analysis:

- Facilitates root-cause analysis of power outages and disturbances by providing consistent, synchronized event logs.

Substation Automation:

- Provides reliable time references for automated control and monitoring systems in substations.

Distributed Energy Resources (DERs):

- Ensures precise synchronization of renewable energy sources like solar and wind with the main grid.



Benefits

Improved Reliability:

- Enables seamless coordination between grid components, reducing downtime and enhancing operational stability.

Enhanced Fault Diagnosis:

- Accurate time-stamps streamline fault detection and resolution, minimizing service interruptions.

Regulatory Compliance:

- Helps meet standards for time synchronization (e.g., IEEE 1588, NERC CIP), ensuring adherence to industry regulations.

Operational Efficiency:

- Simplifies integration and management of time-sensitive equipment across the network.

Future-Proof Technology:

- Scalability and compatibility with emerging grid technologies like microgrids and smart grids.

Applications

Real-Time Power Monitoring: Tracks voltage, current, power, and energy usage in substations and industrial facilities.

Grid Performance Analysis: Provides data for power quality assessments and efficiency monitoring.

Event Recording: Captures high-resolution data for fault recording and event analysis during grid disturbances.

Substation Automation: Integrates with SCADA systems for comprehensive visibility and control of power systems.

Renewable Energy Integration: Monitors power flows from Distributed Energy Resources (DERs) to ensure smooth grid operation.

Benefits

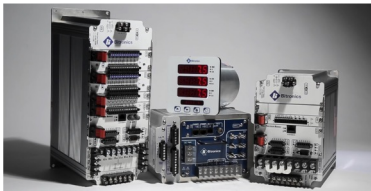
Enhanced Visibility: Provides detailed, real-time data for informed decision-making and system optimization.

Improved Reliability: Aids in early detection of anomalies, reducing downtime and equipment damage.

Operational Efficiency: Simplifies integration with existing control systems, reducing operational complexity.

Power Quality Insights: Helps diagnose and mitigate power quality issues, enhancing grid stability.

Scalability: Supports evolving grid needs, including renewable energy sources and future technologies.



Applications

1. Electric Power Substations, Renewable Plants, Battery Storage
2. Utilities (Power, Water, Gas ...)
3. Oil & Gas (Onshore & Offshore)
4. Mining
5. Power Transformers, Rotation Machines, Critical Assets
6. Oil Filled or Dry Transformers
7. Gas Analysis, Vibration, Thermography Smart Imaging



Benefits

1. Continuous Monitoring
2. Early detection of anomalies
3. Power Quality Analysis using Machine Learning and AI Algorithms
4. Minimal or Non-intrusive installation



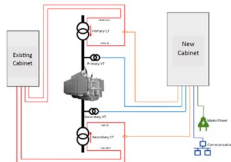
Applications

- 1.Single or Multi-Gas Analysers (Continuous)
- 2.PHOTO ACOUSTIC SPECTROSCOPY (PAS)
- 3.Advanced Controller with 'edge' automation/alarms management
- 4.Advance Analytics and Supervision Platform
- 5.Interface to existing SCADA



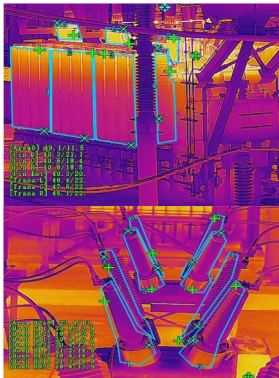
Benefits

- 1.Reduce the risk of catastrophic failure
- 2.Avoid unplanned outages
- 3.Minimize the impact of associated costs
- 4.Extend the capacity of assets
- 5.Reduce maintenance costs
- 6.Detect small problems in time that reduce the useful life of assets
- 7.Optimize the maintenance and asset replacement strategy
- 8.Carry out intensive care of assets during the final period of their useful life/
THD Reduction



Benefits

- 1.Provides Thermal AND Visual view of remote sites and assets
- 2.Early detection of anomalies by Power Quality Analysis using Machine Learning and AI Algorithms
- 3.Non-intrusive / SCADA Integration / Field Proven
- 4.FIX or Mobile installation / IEC 61850-3



Applications

- 1.Electric Utility
- 2.Oil and Gas
- 3.Renewable Energy
- 4.Heavy Industrial



Dynamic Line Rating (DLR) Ampacity, Ambient Adjust Rating

EFD

Early Fault Detection

- Tilted poles and towers, fatigue & structural failure, and ice deposits

QID

Quick Incident Detection

- Wire theft, fallen trees, and strong winds



Easy to Install

- Light sensor, 1.4 kg
- Line diameter from 10 to 70 mm

Self sufficient

- Powered by solar energy
- Rechargeable battery

Connected

- 3G, 4G, and WiFi

Deep Operational & Security Insights

- Turning OT data into actionable intelligence that drives efficiency and resilience

Safe Incident Resolution

- Reduce downtime and ensure business continuity with intelligence-driven early incident detection and response

Regulatory Compliance & Reporting

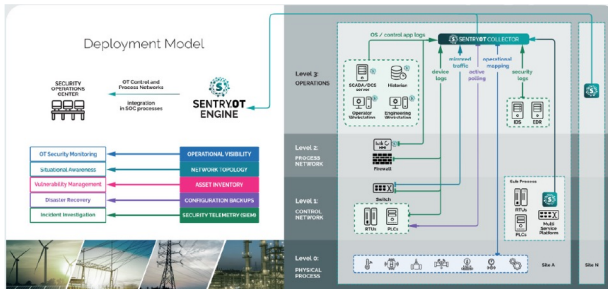
- Meet NIS2 and industry standards effortlessly with automated reporting tools, forensic data storage and investigation capabilities

Main Features

- Complete Asset Inventory
- Telemetry security collection
- OT Configuration Backup
- Raw Network Traffic Recorder
- Chronovisor

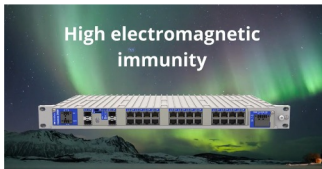
Advantages / Benefits

- Continuous infrastructure monitoring
- Advanced cyberattack detection
- Regulatory compliance
- Reduced downtime
- Seamless integration without process disruption



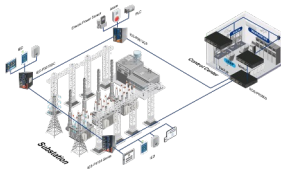
Applications

1. Reliable data transfer
2. Secure industrial settings
3. Supporting real-time analytics
4. Network security



Benefits

1. Enable real-time monitoring and control of industrial processes.
2. Collect and analyze data for informed decision-making.
3. Improve operational efficiency and reduce downtime.
4. Facilitate remote monitoring and management of assets.
5. Enhance scalability to accommodate growing data needs.



Dry Type Transformers



Power Transformers



**Medium Voltage
Packaged Unit
Substations**



**Battery Energy Storage
Systems**



**Medium Voltage
Switchgear**



**Outdoor Substation
Breaker**

About Us

Digital Smart Group is comprised of a group of passionate people with vast experience in technology, international markets, start-ups, and global trade.

During our career, we have helped companies around the world to build smart networks, **digitalise** their production facilities, roads infrastructure, railways, and products.

We have worked with Multinational Companies (MNCs) as well as with medium size companies, always with the same **professionalism** and **ethics**.

Our Goal

We are empowering technology companies to reach their goals by offering innovative solutions, expert guidance, and seamless integration. We strive to make companies bigger, better, and digitally smarter! During our career, we have helped companies worldwide build smart networks and digitalize their production facilities, roads, infrastructure, railways, and products. We have worked with Multinational Companies (MNCs) and medium-sized companies always with the same professionalism and ethics.



Head office in **Barcelona and UK** and a network of partners,
sales agents and customers **around the world.**

Main market focus is **Europe**



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Contact Us

**Our expansion strategy is global, our heart is local.
Based in Barcelona we serve customers around
the world. We understand international business
and speak the language of our partners.
Please contact us directly using the details below
or fill out the form and we will be in touch soon!**

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