

smartpowerrevolution

Electrical Switchgear Servitization

Transform your systems into smart, and connected assets



Total Operational Continuity & Zero Unplanned Downtime

Data-Driven Insights and Remote Performance Tracking

We transition your infrastructures from reactive troubleshooting to continuous proactive control. Using integrated sensors, safe edge-to-cloud pathways, and expert analytical modeling, IMESA turns standard medium-voltage systems into secure, and self-diagnostic assets.



Main features
& Capabilities

Servitization transforms traditional electrical switchboards into smart, connected systems, while turning static infrastructures into an **active digital asset**. Thanks to **IoT sensors, cloud platforms, and advanced analytics**, it enables continuous monitoring, **predictive maintenance, and remote management**. This evolution allows companies to anticipate failures, to optimize energy efficiency, and to facilitate transition from reactive troubleshooting to proactive, and **data-driven control**.

This architecture seamlessly integrates custom **vacuum circuit breakers**, and **air insulated metal-clad systems** with digital tracking protocols to ensure continuous performance, offering:

- High dielectric stability;
- Non-instrusive retrofits;
- Long-term system reliability;
- Low maintenance complexity.

Monitored domain	Key parameters monitored	Protocol & Standards
Electrical Ratings	Currents voltages, frequency, active & reactive power, and energy	IEC61850/Modbus TCP
System Status	Circuit breaker position, disconnecter wear, PLC status, and protections	OPC-UA Secure Gateway
Operating Conditions	Busbar temperature, compartment humidity, and partial discharges	Wireless IoT/LoRaWAN
Critical Safety	Gas pressure levels, rapid temperature surges, and arc faults	Hardwired & Edge Fast Bus

Servitization
of electrical
distribution
panels

Smart predictive maintenance

Transform your electrical distribution panels into intelligent connected systems. From reactive maintenance to data-driven predictive services.



Technology. Data. Value.
A digital ecosystem delivering value to your assets.

Continuous Monitoring
IoT sensors continuously collect real-time data on critical electrical parameters.

Predictive Analytics
Advanced AI algorithms identify degradation patterns, and predict potential failures.

Cloud Platform
Secure remote access and centralized management with intuitive dashboards, and customized reports.

Smart Integration
Seamless integration with automation systems, and Power Management for maximum efficiency, and safety.

Why IMESA:

Your Lifecycle Partner combining our consolidated experience in the electrical sector with highly customized, and scalable solutions. We evolve from traditional supplier into strategic partner throughout the entire asset lifecycle. This collaborative approach drives greater loyalty, and unlocks powerful new business opportunities through continuous and shared growth.