Making the Smart Grid Real

INTEROPERABLE SOLUTIONS FOR HV-MV-LV NETWORKS
ZIV was founded in 1993 to provide innovative technological solutions for the electric energy industry.

It is an EXCEPTIONAL company, with knowledge in four key areas (protection, control, communications and metering), offering complete solutions for the challenges of the current electrical system.

With a commitment to innovation, to an open & flexible approach, and to teamwork, ZIV has grown to become a leader in INTELLIGENT SOLUTIONS for HV, MV and LV Grids.

A technology partner with the knowledge, experience and resources necessary to deliver solutions that provide intelligence, resilience and reliability to electrical systems worldwide.
It is a company committed to R&D

ZIV participates as an active member of several technical fora and standards committees.

We develop standard based solutions
With large international field experience

**ZIV SITES**
- Zamudio (ESP)
- Barcelona (ESP)
- Madrid (ESP)
- Paris (FRA)
- Dublin (IRL)
- Newcastle (GBR)
- Niteroi (BRA)
- Mexico (MEX)
- Singapore (SGP)
- Dubai (UAE)
- Bangalore (IND)
- KSA
- Indonesia

**ZIV REFERENCES**
check the interactive map

Global references
85 countries
That provides HV-MV-LV Automation Solutions
To TSO´s & DSO´s across the globe

SAS | Substation Automation Systems:
Simple, robust and secure solutions for integrated protection & control and/or telecommunication systems

DAS | Distribution Automation
Advanced supervision, automation and protection of MV & LV networks

M | Metering Solutions
AMI, Smart Metering, Smart Grid Cabinets & EV Charging Solutions

ZIV Automation
Based on 3 Key Knowledge Areas
HV – MV – LV Automation

Substation Automation Cabinets

ANM /DERMs / Flexibility services

RTUs & Comm IEDs for MV switchgears, RMUs, OHLBS

HV – MV RTUs, Telecom IEDs and relays

Electrical & Telecom Eng. Services

LV Supervision
1.- Full range of protection relays

SAS cabinets

Feeder, Line, Transformer, Capacitor Bank, Breaker and Busbar Protections

"V" family

+ IEC 61850 edition 2

"ZIV e-NET flex" family Modular and cybersecure IEDs for HV systems

"ZIV e-NET compact" Compact protection for MV systems
1.- Full range of protection relays
2.- PLC, Teleprotection & Switches

Telecommunication systems

- **Power Line Carrier Systems**
  - Universal / Compact & Multifunction terminals

- **Line Matching Units**
  - IEC 61850 Ethernet Switch, Real Time Router & Concentrators / Diffusers

- **Primary Substation**
  - SWT-L3

- **Teleprotection Systems**
  - Universal & Compact terminals
  - Built-in teleprotection modules for PLC terminals
  - **F2MUX**
    - Universal Fiber to Mux converter

- **Accessories for PLC Systems**
  - Built-in FSK & multi-level (DPSK, QAM & TCM) modems for PLC terminals, Serial into E1 converters, etc.

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1.- Full range of protection relays
2.- PLC, Teleprotection & Switches
3.- Primary & S.Substation RTUs

Automation solutions, sw + engineering services

CPT– Substation gateway

XCell – Automation Platform for HV and MV Substations
1. Full range of protection relays
2. PLC, Teleprotection & Switches
3. Primary & S.Substation RTUs

OEM
Air-insulated Switchgear,
Gas Insulated RMUs,
OH Load Break Switch

Automation solutions, sw + engineering services

RTUs with up to 5 FPI
for OH Load Break Switches and extensible switchgears
1.- Full range of protection relays
2.- PLC, Teleprotection & Switches
3.- Primary & S.Substation RTUs
4.- Smart IEDs & Systems for DSOs

Advanced LV Monitoring & Control Systems
from the SS to the smart meter

IEC 61850 in Distribution Automation
protection, control, monitoring and automation
functions in a compact IED

+ Full range of communication devices
New 4UMML, 4G LTE modem
with worldwide coverage
1. Full range of protection relays
2. PLC, Teleprotection & Switches
3. Primary & S.Substation RTUs
4. Smart IEDs & Systems for DSOs
5. Relays, RTUS & SW for Renewables Integration

Renewables Integration

ANM / DERMS / Flexibility Services
Scalable, Flexible, BAU Solutions

Active Network Management
Local DER Controllers, Substation Zone Controllers and Centralised Active Network Solutions.
A reliable International partner

Success Stories - web

Turn-key solutions for protection and automation, working with the main contractor

Renewables Integration
Multivendor SAS + Interconnection with the National Transmission companies

ZIV 61850 SAS
Talasol, Pegrilleras, Escalareta, La Mudarra, etc.

Active Network Management
System e.g. SSEN, WPD, etc.

Transmission
SAS to monitor and improve PGCIL’s transmission capacity in Jharkhand, India
With International experience with

**TSOs & DSOs**

**OEMs & EPCs**