

LEADING ENERGY EPC COMPANY



About Us

We are a leading energy infrastructure company specializing in **engineering, procurement, and construction** (EPC) services.

With a focus on high-voltage **grid connections** and **renewable energy** systems, we deliver robust and reliable solutions across the energy sector.



Our team of experts is committed to powering communities and industries through **innovative** and **sustainable energy solutions**.

Complete EPC for Energy

ETHGroup means complete EPC services from **permits** and **design**, all the way to **testing** and **commissioning** for **systems up to 400kV**

**Project
Management**

**Technical Engineering
Consultancy**

**Construction
& Installation**

**Engineering
& Design**

**Procurement
& Logistics**

**Testing
& Commissioning**

Certifications and Permits

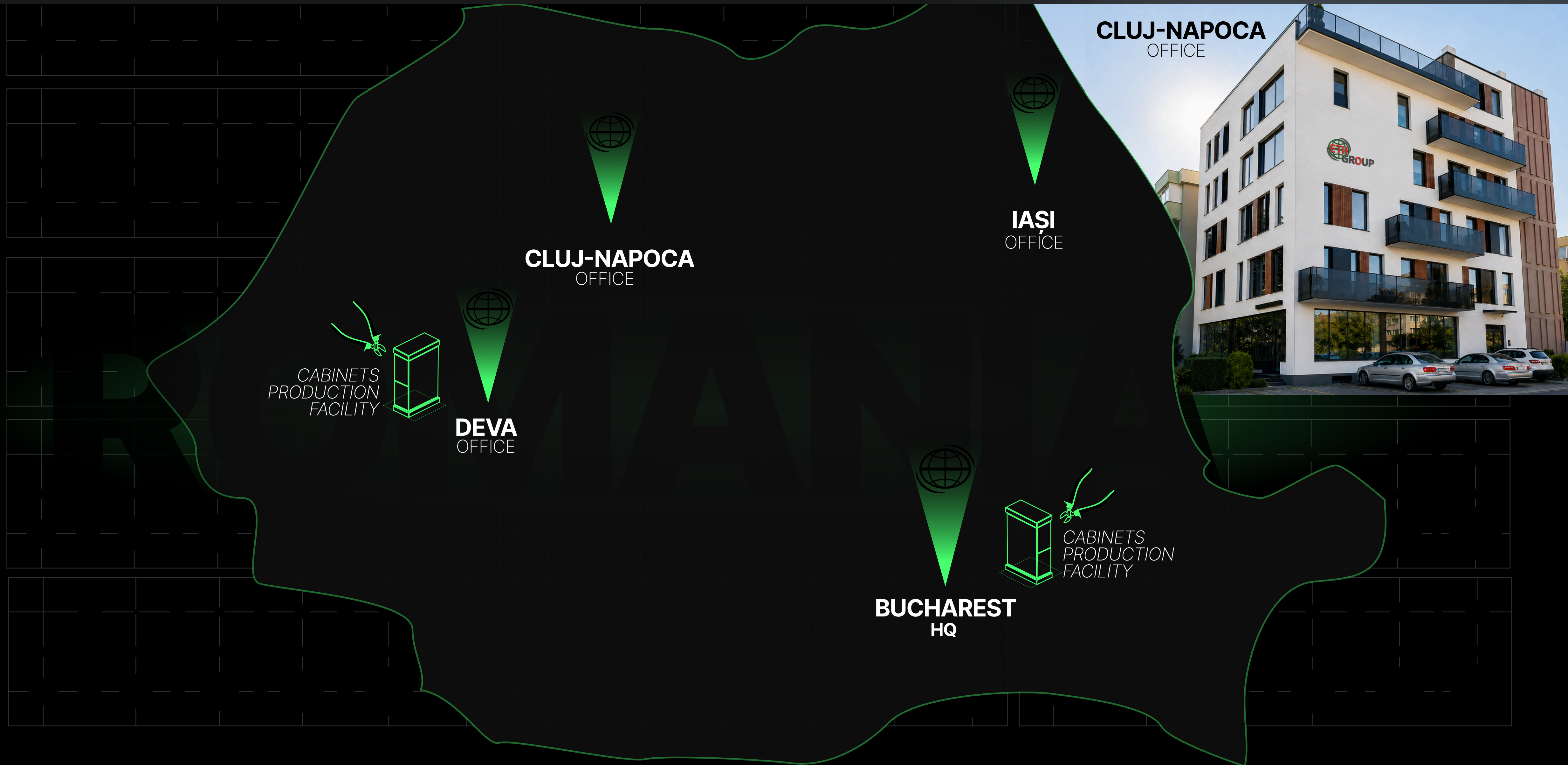
Authority

ISO Standard	State Approval	ANCEX Ministry of Foreign Affairs Department for Control of Exports	NATO - OTAN	MApN, SRI, MoD National Intelligence Service	ANRE National Authority for Energy Regulation
ISO 9001 ISO 14001 ISO 45001 ISO 27001	Commercial, logistics and production activities of military products	Military equipment and dual use goods	AQAP 2110: Quality Assurance in Design, Development and Manufacturing Certification	Authorized to access and work with classified information	Design, Supply, Execution and Testing 0.4kV to 400kV

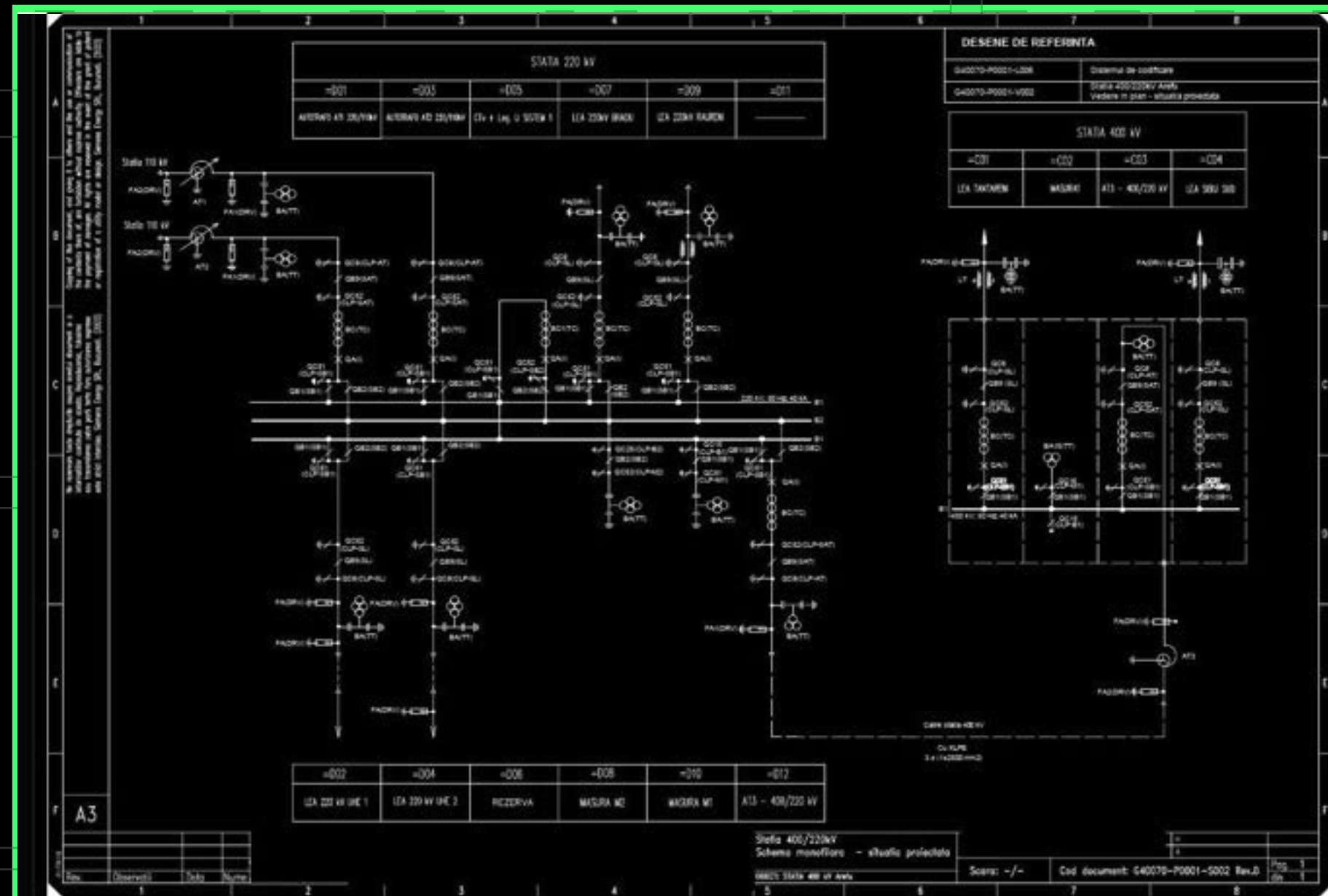
Authority

INSEMEX GANEx	IGSU Romanian General Inspectorate for Emergency Situations	CNCAN National Council for Control of Nuclear Activity	ANPM National Agency for Environmental Protection
Services in technical installations in areas with danger of explosion, according to NEx Standard 01-06 / 2007	Design and installation of systems, signaling, alarming and alerting installations in case of fire Design and installation of fire extinguishing systems, except for those containing certain fluorinated greenhouse gases	- NMC-05: Design services for nuclear installations - NMC-07: Product manufacturing and providing services for nuclear facilities - NMC-08: Construction and installation of electrical systems in nuclear field Services for the design of physical protection systems in the nuclear field Works and Services intended for physical protection in the nuclear field	Collection, Transport, Storage, Treatment and Disposal of hazardous and non - hazardous waste

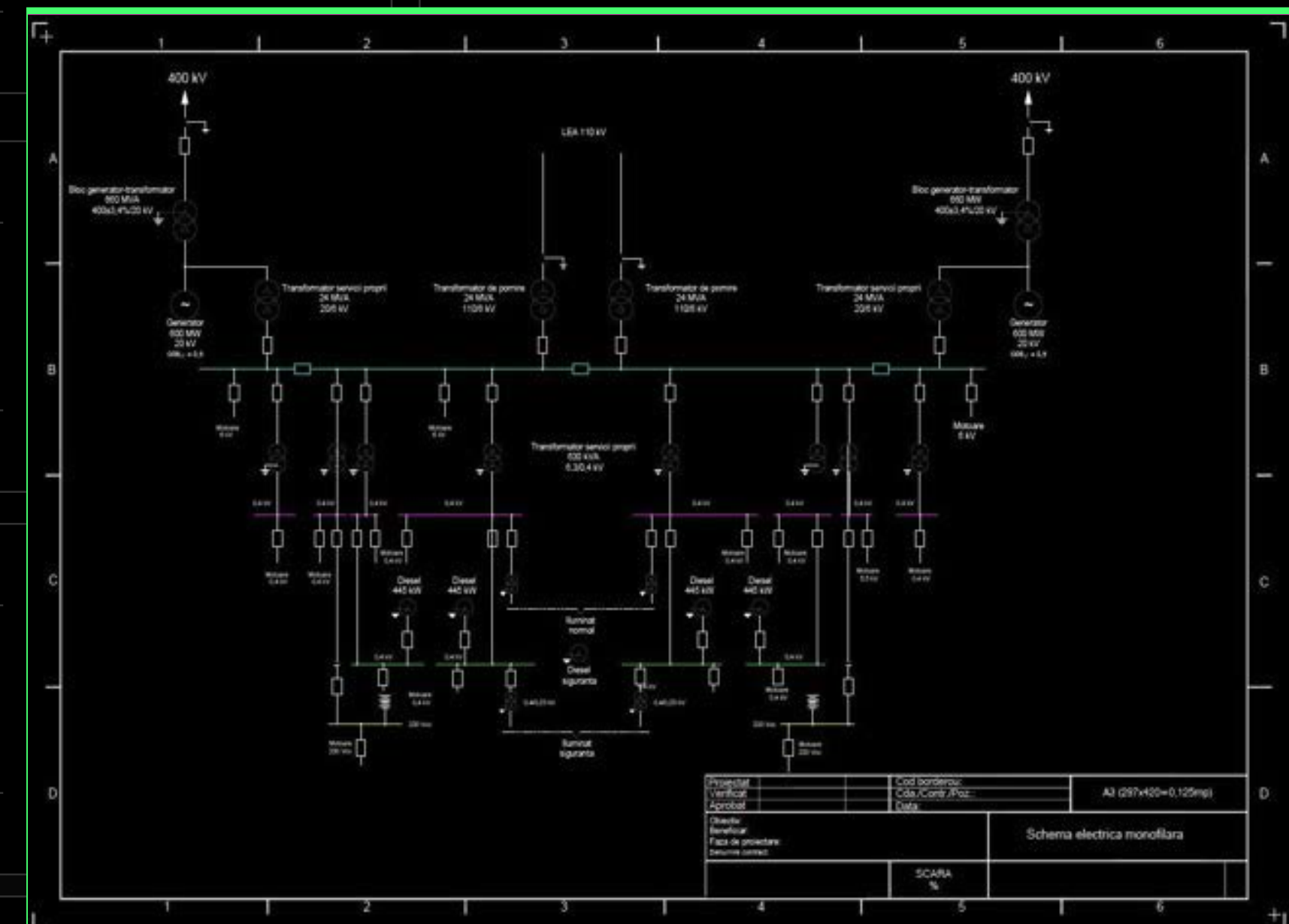
Our Locations



Design of Substations and Electro-Energetic Systems up to 400kV

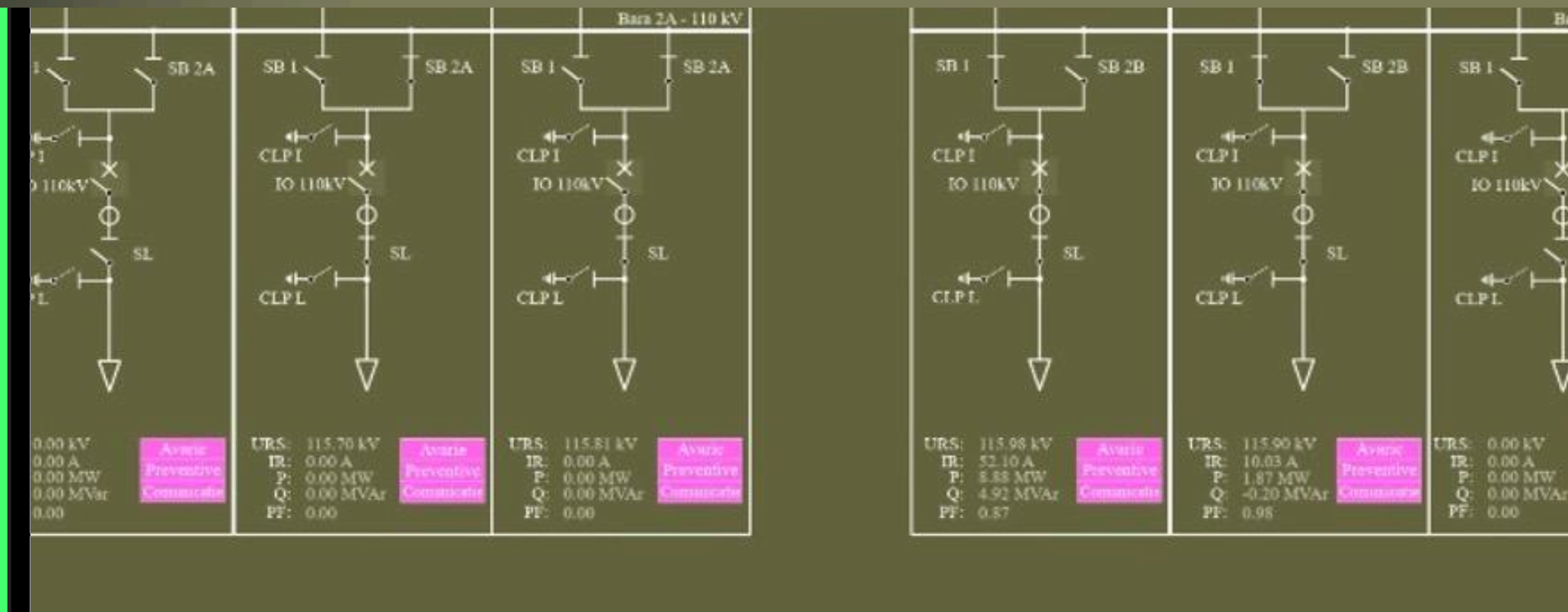


Engineering and design of the 400/220 kV Arefu GIS substation



Engineering and design of 220/33kV Calugareni power collecting substation for photovoltaic park Calugareni 2

COS Targoviste, RO



Engineering, design and execution of SCADA and protection systems

Donalam - AFV Beltrame Group SC1 110kV S/S
– protections upgrade and SCADA
implementation



Protections upgrade

Complete engineering, design and
implementation of a SCADA system

Panels rehabilitation

Complete 110/20kV DSO Substations refurbishment for DELGAZ GRID Romania (E.U. funding)



Design, detailed engineering and as built

Civil and electrical works

Protection and SCADA configuration

Complete mechanical and electrical tests

Commissioning and training for Client's personnel

110/20 kV DSO Substation Modernization

Strategic rebuild for one of Romania's
largest 110 kV substations

@Roman, RO

Full EPC modernization of
110/20 kV substation
commissioned in 1958

Replacement of HV (20× 110kV
bays) & MV (32× 20kV bays)
equipment and busbar
systems

New control center, SCADA
integration and remote
operation

MV section fully rebuilt in
containerized format with
reactive power compensation

Enhanced protection,
automation & ground fault
neutralization

220/110/20 kV Substation Modernization

Large-scale modernization of a
strategic transmission hub

@Ghizdaru, RO

Full EPC modernization of
220/110/20 kV substation

Primary & secondary systems
upgraded across all voltage
levels

Complete SCADA,
protection, control &
metering integration

20 kV MV section reengineered
with new automation & neutral
treatment

Civil works, buildings
refurbishment & auxiliary
power systems upgrade

Selected Projects

Construction of the Power Collection and Interconnection Substations for a 60MW Wind Power Plant



@Ruginoasa,RO



Design &
Engineering

Procurement &
Delivery

Construction &
Installation

SCADA
implementation

Testing and
commissioning.

Construction of the Grid Connection Substation for a 140MW Wind Power Plant

Construction of a complete 110 kV substation & 220kV connection with TSO

@Banca, RO

GIS Building

Control and telecommunications building

Foundations for autotransformers

Trenches, earthing, roads, fencing, perimeter lighting

Equipment installation, testing and commissioning including 2 × 200MVA Autotransformers



Substation Modernization - Grid interface upgrade at hydro power hub

@Portile de Fier II, RO

EPC works for 110 kV autotransformer bays at a major hydro facility

Primary & secondary equipment integration (Hitachi Energy)

HV cable and overhead connection to 220/110 kV grid

Civil works: foundations, steel structures, cable trenches

Testing, protection tuning & SCADA adaptation for hydro integration

Floating photovoltaic Solar Power Plant

@Grebla,RO

Design &
Engineering

Procurement &
Delivery

Construction &
Installation

SCADA
implementation

Testing and
commissioning

PV Solar Power Plants



@Bals, RO

@Barbatesti, RO



Design &
Engineering

Procurement &
Delivery

Construction &
Installation

SCADA
implementation

Testing and
commissioning

Hybrid Gas Power Plant & BESS System

20MW Gas + 2×6 MWh
Battery Storage

@Racari, RO

Complete 110 kV
grid interconnection

Medium voltage
infrastructure (20 kV)

Integration of protection,
metering & automation

System adaptation,
testing & commissioning

Hybrid-ready SCADA
for BESS operation

BESS Installation & 110 kV Grid Connection for PV

50.6 MW / 200.6 MWh BESS System
Full electrical installation & grid integration

Complete 110 kV grid
interconnection &
underground cable

Full BESS electrical
installation (40 ESS /
240 PCS / 6 STS)

New 110/20 kV – 63 MVA
substation

Medium voltage
infrastructure (20 kV)

ALO system
implementation



Rehabilitation of auxiliary power supply systems for Substations

@Zimnicea, RO

@Scaeni, RO

Engineering and design

Civil, construction and assembly works

Installation, tests and commissioning of equipment

Client's personnel training

Capacitor Banks



Engineering and
design

Civil, construction and
assembly works

Installation, tests and
commissioning of equipment

Client's personnel
training

Selected Projects

**Monitoring, Diagnosis and
Maintenance for MV & HV
equipment**



We design and manufacture control, protection, automation and distribution cabinets in our own production facilities in Bucharest and Deva.

Every cabinet is engineered and dimensioned for the project's own protection and automation scheme. No standard sizes: layout, dimensions and equipment follow the project design.

Cabinet types

- Control
- Protection
- Automation
- Distribution

Applications

- Transmission Substations
- Distribution Substations & transformer stations
- Renewable energy power plants
- Industrial consumers

Testing & Inspection

Tested &
Accepted by





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