ETH GROUP

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



CLUJ-NAPOCA
OFFICE



IAȘI
OFFICE



DEVA
OFFICE

CABINETS PRODUCTION FACILITY



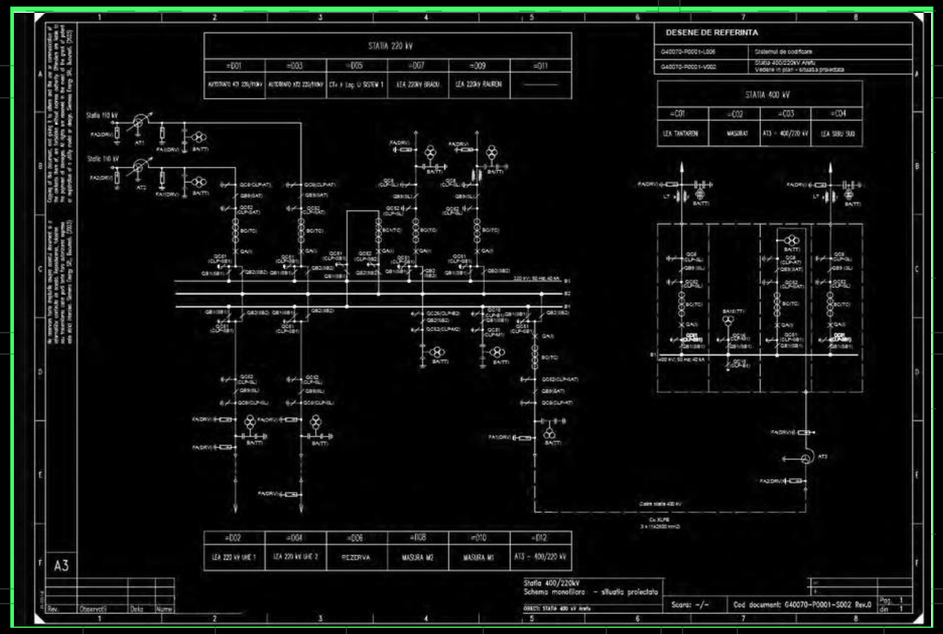
BUCHAREST
CABINETS PRODUCTION FACILITY

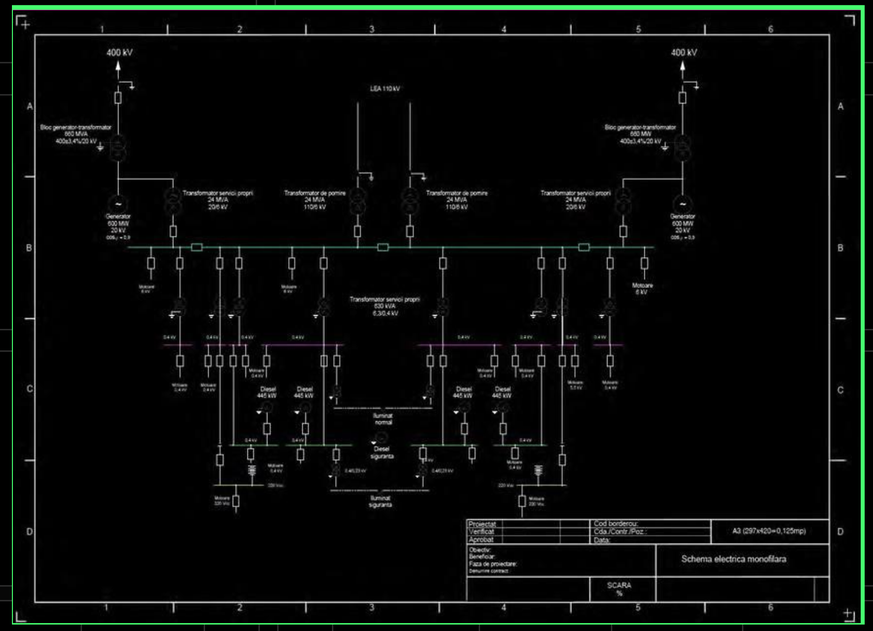


MĂGURELE
HQ

Selected Projects

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



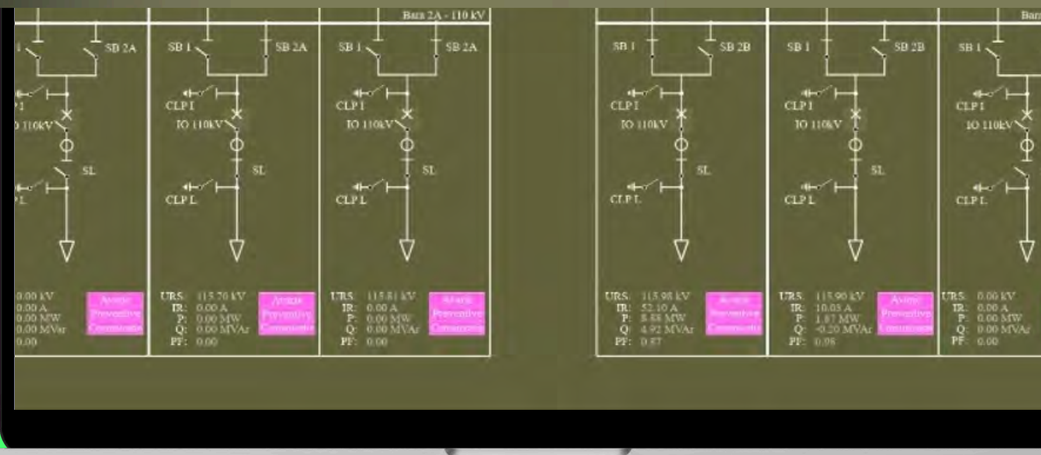


Engineering and design of the 400/220 kV Arefu GIS substation

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

Selected Projects

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

Selected Projects

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

Selected Projects





@Roman, RO

110/20 kV DSO Substation Modernization

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

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

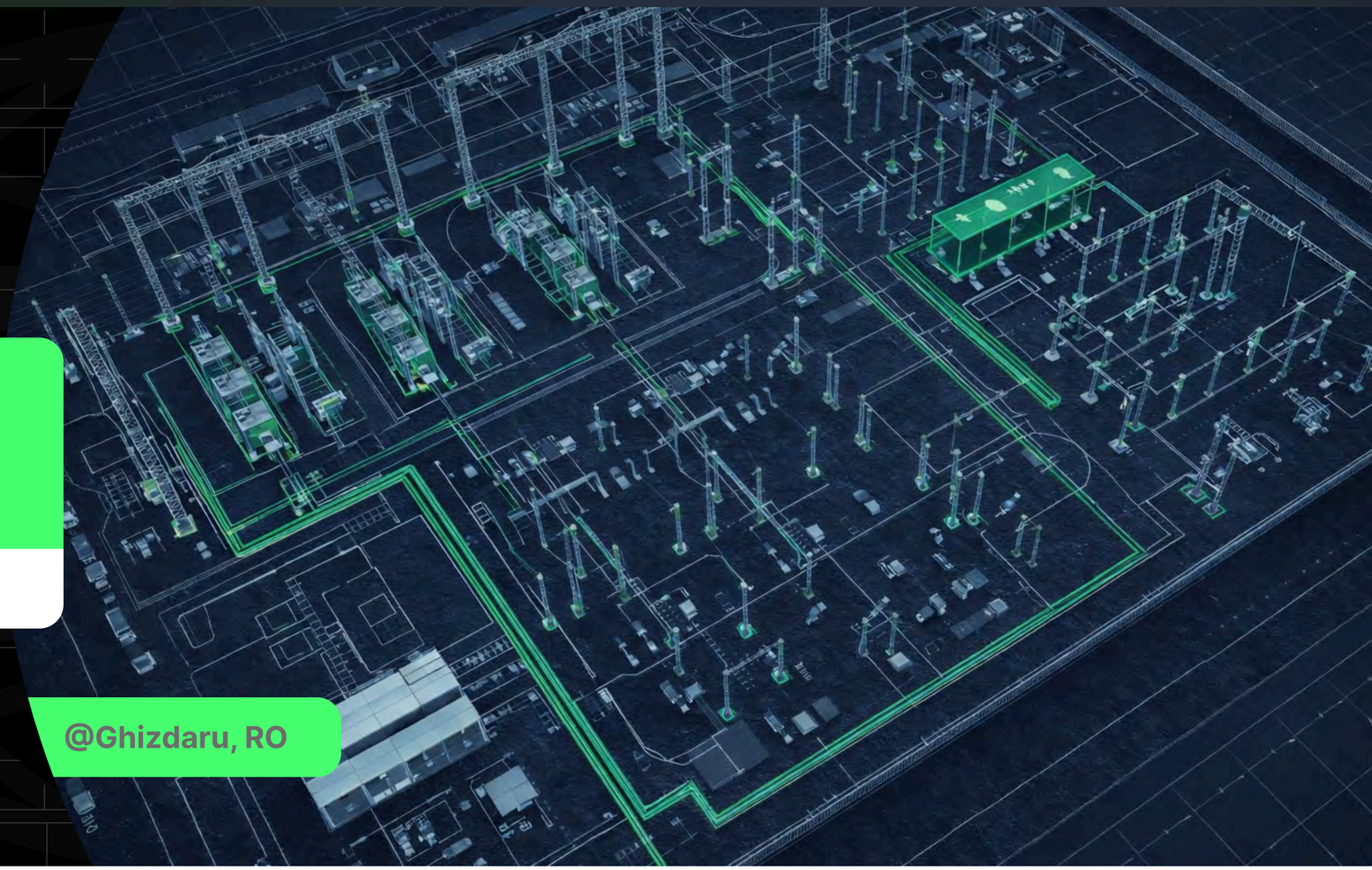
MV section fully rebuilt in containerized format with reactive power compensation

Enhanced protection, automation & ground fault neutralization

Selected Projects

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.

Selected Projects

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

Selected Projects

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

Selected Projects

Floating photovoltaic **Solar Power Plant**



@Grebla,RO

Design & Engineering	Procurement & Delivery	Construction & Installation	SCADA implementation	Testing and commissioning

Selected Projects

PV Solar Power Plants



@Bals, RO



@Barbatesti, RO

- Design & Engineering
- Procurement & Delivery
- Construction & Installation
- SCADA implementation
- Testing and commissioning

Selected Projects

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

Selected Projects

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

Selected Projects

Rehabilitation of auxiliary power supply systems for Substations



@Scaeni, RO



@Zimnicea, RO

- Engineering and design
- Civil, construction and assembly works
- Installation, tests and commissioning of equipment
- Client’s personnel training

Selected Projects

Capacitor Banks



Engineering and design

Civil, construction and assembly works

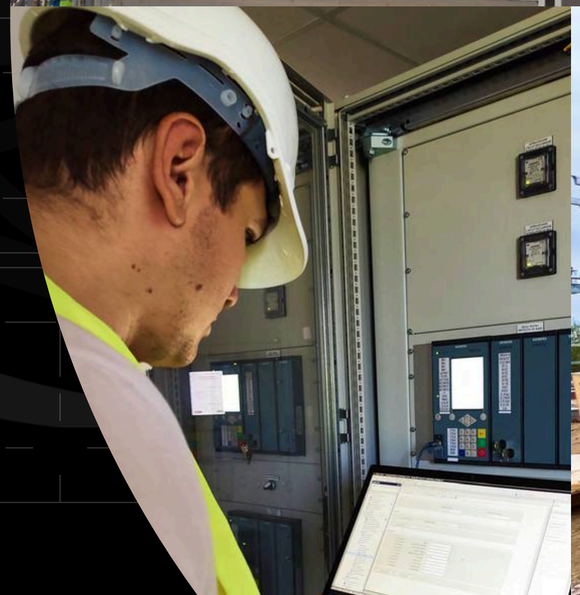
Installation, tests and commissioning of equipment

Client’s personnel training

Selected Projects

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







Electrical Equipment Manufacturer



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.

Testing & Inspection



Tested & Accepted by Transelectrica®

Cabinet types

- Control
- Protection
- Automation
- Distribution

Applications

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

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