

EPC Contractor

Engineering Procurement and
Construction Contractor



ELECTROALFA®

ENERGY



INDUSTRY



INFRASTRUCTURE



BUILDINGS



Committing energy, dedication and proficiency to excel in our relations with the clients.

We are a company that bases its business on progress and respect.

We hold the necessary experience to meet our customers' needs.

We are driven to invest and evolve through research.

We are determined to be actively involved in the community.

All these fundamentals make us function as a one stop provider, capable of delivering integrated solutions on both the energy sector and real support to the society to which we belong.

We have reached that point of maturity at which a company honours equally its customers, the employees and the society as a whole.



Gheorghe Ciubotaru
President of the Board

25 YEARS OF SPIRIT AND ENERGY



After **25 years of experience** in the field, Electroalfa is a strong brand based on the expertise, qualifications and enthusiasm of more than 400 specialists. Located North East of Romania, Electroalfa holds three modern factories in Botosani, a design office in the Republic of Moldova, a 3.5 MW photovoltaic park, as well as sales offices in all regions of Romania and a research and development facility.

We believe in the power of innovation, we seek and invest in the latest technology to create competitive products and solutions.

With **a share of over 40%** of total company turnover, the contractor activities ensure Electroalfa's products embedding into comprehensive turnkey projects. Most of our contractor activities involve engineering, technical assistance & supervision in site and commissioning services.

Electroalfa is a group of privately owned companies, a leading solution integrator in the most relevant industry sectors in Romania, specialized in:

1. Production and supply of Electrical Equipment for Medium and Low Voltage

2. Complex Electrical Installations Turnkey Projects

3. Specialized Engineering Services

4. Steel Fabricated Parts

5. Renewable Energy Generation Projects



The Centre for Research, Development and Innovation

is an essential vector for Electroalfa's economic and technological competitiveness and growth. It is aimed at creating worldwide competitive prototypes and products, as well as being one of the most potent and modern in Republic of Moldova and Romania. Electroalfa's experience in research focuses on: developing new products, optimizing existing products, integrating the latest technologies, streamlining existing processes.

National and international certifications:

- The System of Quality Management of Environment, Occupational Health and Safety certified by SRAC CERT
- Bureau Veritas 'BV Mode II Scheme' Certification for electrical equipment and sheet metal fabrications in shipbuilding applications
- Certifications from the National Energy Regulatory Authority (ANRE)
- Various other national certifications in fields like nuclear, rail, naval, aeronautical, land reclamation



For complex power supply projects we are able to provide our customers with design, installation and commissioning works. Combined with Electroalfa's own equipment, we deliver optimal quality and control for increased performance and product lifespan.

Our effective teamwork and passion for your projects help us to deliver much more than finished goods, it helps to create strong and stable partnerships.

We operate on the multifaceted projects market of energy, industrial, infrastructure and civil engineering, residential and commercial.

With a strong experience in task management, our project management specialists can duly formulate each step of the process, ensuring the successful completion of the entire project: budget compliance, timely contractual delivery and of course Quality, Health, Safety and Environment (Q&HSE) management.

Whether an industrial site, a building development, a commercial space, a 0,4÷110kV overhead or underground power lines, compact or overhead transformer substations, Electroalfa's professionalism is a guarantee for high quality.

Electroalfa's contractor works portfolio entails:

1. Power supply solutions, electrical distribution and transformer substations for the national power grid or belonging to private companies

2. Electrical and automation projects for residential, commercial and industrial sites

3. Electrical installations projects for infrastructure - transport, telecommunications, public utilities (pumping stations, for potable, industrial and irrigation water) and environment protection

4. Technical consultancy, pre-feasibility studies, electrical, mechanical and automation engineering

Energy

We hold significant experience in complex contractor projects in the areas of power distribution, transmission and energy production. The partnerships we have developed with key players from these sectors have contributed in providing the most reliable technical solutions and successful completion of undertaken projects.

Thermal Power Plants

The accumulated experience recommends us especially as contractors for energy generation projects with installed capacity under 30MW.





Botosani Municipality

Project Site

Implementation project at the CET Botosani source (city's thermal power provider)

Scope

Rehabilitation and modernization design and commissioning of:

- thermal engines MWe 4.4 / 3.5 MWt
- hot water boilers 52 MWt 120/70° C
- fire detection systems
- water treatment installations
- structural and architecture works
- buildings constructions
- hydro-technical constructions
- primary distribution switchgears
- main and secondary distribution boards
- low voltage switchboard up to 5000A, PCC/MCC DISMOD type

Partner

Elsaco

Value (EURO)

14.300.000

Hydro Power Plants

Our portfolio as hydro power generation projects contractor includes especially HPP units with installed capacity below 10MW.

	Voith Hydro SRL
Project Site	Banesti - Floresti Plant modernization
Scope	Equipment installation: <ul style="list-style-type: none"> → manufacturing, delivery and commissioning electrical equipments: industrial automation and control switchboards → cables installation for command and signalling equipment → preventive checks, relays parameterisation at three plants: Banesti, Floresti 1, Floresti 2
Value (EURO)	470.000

	Hidroelectrica S.A. - Portile de Fier, Drobeta Turnu Severin Hydroelectric Power Plant branch
Project Site	<ul style="list-style-type: none"> → Electrical equipment for 220Vcc auxiliary services distribution - Portile de Fier I HPP → Electrical equipment for general overhaul of 220Vcc power and distribution installations - Portile de Fier I HPP
Scope	Design and commissioning: <ul style="list-style-type: none"> → primary distribution switchgears → auxiliary services cabinets for 400/230 VAC and 48...220VDC → industrial automation and control switchboards → replacement of power and control cables → protection relays set up and parameterization of 6 kV switchgear
Value (EURO)	980.000

Power Transmission and Distribution

We conduct turnkey projects and provide works of retrofitting and modernization for power distribution and transmission installations, high, medium and low voltage transformer and distribution plants, power lines and transformer substations.

We are well established partners with companies providing nationwide generation, transmission and distribution of electricity and with Tranelectrica (the national electricity transmission operator), CEZ Group, E.ON AG, Enel Grup, Electrica SA (regional electricity operators) or other private companies.

	CEZ Distribution Branch S.A.
Project Site	10 substations 110/20 kV upgrade
Scope	<ul style="list-style-type: none"> → civil works and electrical installations design → upgrading indoor and outdoor lighting → 110/20kV power transformers auxiliary services modernization and SCADA integration → manufacturing, delivery and commissioning electrical equipment: primary and secondary distribution switchgears; control and protection panels for 110/20(6) kV substation, 400/230Vac and 48...220Vdc auxiliary services cabinets; → cables installation for command and signalling equipment → delivery and commissioning of arc-suppression coils and service transformers → secondary circuits and cables installation for control and protection system;
Partner	Siemens
Value (EURO)	12.400.000



**F.D.F.E.E. Electrica Transilvania Sud S.A.-
S.D.F.E.E. Brasov**

Project Site

Poiana Brasov 110 kV substation and upgrade to 20kV for the Poiana Brasov medium voltage power grid

Scope

- design, civil works and electrical installations, SCADA, earthworks, frames foundations, equipment, internal roads, cable channels
- delivery and commissioning of the following equipment: prefabricated concrete substations, primary and secondary distribution switchgears; control&protection panels for 110/20(6) kV substations; auxiliary services cabinets for 400/230 VAC and 48...220VDC; main and secondary distribution boards; power distribution and metering equipment, SAD integration software, fire protection installation

Partner

Siemens, Energomontaj

Value (EURO)

6.200.000



**C.N.T.E.E. Transelectrica S.A. Bucuresti- Bacau
Distribution Branch**

Project Site

Focsani Vest 20 kV and services substations upgrade

Scope

- telecommunication works
- centralized metering system
- arc suppression coil automatic adjustment
- service transformers and arc-suppression coil automatic adjustment
- manufacturing, delivery and commissioning electrical equipments: prefabricated concrete substations, primary and secondary distribution switchgears; control and protection panels for 110/20(6)kV power stations; auxiliary services cabinets for 400/230 VAC and 48...220VDC; main and secondary distribution boards
- remote management and local metering system

Value (EURO)

2.300.000



Industry

We put forward complete solutions for any project involving industrial process automation or power supply for dedicated consumers. Our team of specialists ensures the successful completion of complex tasks at every stage of the project: pre-investment technical consultancy, basic and detail design of electrical equipment and related installations, manufacturing, planning, implementation, testing and hardware and software solutions.

FARMEC S.A.

Project Site

Farmec Headquarters Power supply - Modifying the power supply solution.

Scope

- manufacturing, delivery and commissioning electrical equipment: prefabricated concrete substations; secondary distribution switchgears
- SCADA integration works
- power supply connection works

Value (EURO)

68.500



**Arcelor Mittal Galati
(Arcelor Mittal Group)**

Project Site

Energy Project Package nr. 2 - Implementation of prefabricated 6/0.4kV transformer substations equipped with motor speed control and direct electric drive

Object project

- design
- installation of prefabricated transformer substation
- manufacturing, delivery and commissioning electrical equipment: prefabricated concrete substations, primary and secondary distribution switchgears; main and secondary distribution boards; industrial automation and control switchboards; low voltage switchboard up to 5000A, PCC/MCC DISMOD type

Value (EURO)

1.000.000

CARPATEMENT HOLDING S.A.

Project Site

Bicaz cement plant - modernization and commissioning of a new production line

Scope

- medium voltage switchgear retrofit
- protection relays parameterization
- medium voltage accessories
- civil works
- manufacturing, delivery and commissioning electrical equipments: auxiliary services cabinets for 400/230Vac and 48...220Vdc auxiliary services cabinets

Value (EURO)

790.000

Infrastructure

We are one of the leading players on the Romanian infrastructure sector who conducts multifaceted projects that include design, electrical equipment supply, automation, project management and commissioning.

We provide contractor works for electrical installation projects, public utilities such as drinking water supply, pumping station rehabilitation, rehabilitation of irrigation infrastructure, wastewater treatment or upgrading wastewater treatment plants, natural gas transportation. We offer experienced and qualified engineering staff and project management.



Public Utilities / Water management projects

Implementing an optimal water management solution often requires high efficiency design and equipment for all water supply, evacuation and sewage treatment installations. We provide revamping and modernizing of water pumping stations and irrigation systems, including design and engineering, electrical installation works, civil works and technical assistance.

	Ministry of Agriculture and Rural Development
Project Site	Rehabilitation of the main pumping stations of Sadova-Corabia irrigation facilities
Scope	<ul style="list-style-type: none"> → rehabilitation of 3 pumps P=8 MW, Q=27,000 mc/h → installation of 4 pumps P=144 MW, Q=3.600 mc/h → installation of 9 pumps P=100 MW, Q=2.750 mc/h → rehabilitation of expansion tank, valves, piping, hydraulic circuits, discharge ducts, containment flaps → manufacturing, delivery and commissioning electrical equipment: primary and secondary distribution switchgears; main and secondary distribution boards; industrial automation and control switchboards → secondary circuits and control cables → SCADA system → security and monitoring system of the pumping stations
Value (EURO)	3.100.000

	O.U.A.I. (Irrigation Water Users Organization)
Project Site	O.U.A.I Agrozootehnica PietroiuI, Calarasi County - Upgrading and refurbishment of the SPP 4 pumping station
Scope	<ul style="list-style-type: none"> → engineering design and technical assistance → civil works and erection of hydro mechanical installation, pipes and supports → manufacturing, delivery and commissioning electrical equipments: industrial automation and control switchboards; low voltage switchboard up to 5000A, PCC/MCC DISMOD type
Value (EURO)	836.000



O.U.A.I. (Irrigation Water Users Organization)

Project Site

O.U.A.I. Interagro nr.2 Terasa Zimnicea Upgrading and refurbishment of the irrigation infrastructure

Scope

Works to ensure necessary utilities for Project Site SPP2 Padure and SPP1 Becherescu:

- civil works and erection: 3.5 kW photovoltaic system; manufacturing, delivery and commissioning electrical equipments: primary distribution switchgears; main and secondary distribution boards
- panels and battery; industrial automation and control switchboards
- hydro mechanical installations, structures and reinforcements: hydro mechanical installations, technological equipment commissioning

Value (EURO)

532.000

Public Utilities / Gas transmission projects

The National Gas Transmission Company TRANSGAZ S.A.

Project Site

- Bacău Branch
- STC Onesti, Bacău County - technological installations rehabilitation and auxiliary system repairs

Scope

- Gas supply works:
- technological pipelines and gas separation equipment
 - combustion gas control and metering
 - gas leak detection, fire and theft alarm system
 - delivery of technological and detection equipment
 - technical assistance

Value (EURO)

200.000

Environment

As a general contractor we provide environmental protection works, such as construction of waste treatment plants.

	Botosani County Council
Project Site	Building the Integrated Central Waste Management (CIMD) in Stauceni, part of the project " Integrated waste management in the county of Botosani"
Scope	Building an ecological landfill: <ul style="list-style-type: none">→ leachate treatment system and wastewater treatment→ landfill gas extraction system→ collection and disposal of surface water system→ fire-fighting system→ access road and perimeter road→ power supply→ water supply→ administrative building→ waste sorting station→ leachate treatment plant→ manufacturing, delivery and commissioning electrical equipments: prefabricated concrete substations; main and secondary distribution boards; auxiliary services cabinets for 400/230 VAC and 48...220VDC; power distribution and metering equipments
Partner	Hidroconstructia, Argif Proiect
Value (EURO)	10.700.000



Buildings

As contractors we offer fully integrated solutions for projects that require erection or rehabilitation of public utility buildings, commercial and residential developments, industrial buildings, recreational parks.

	Botosani County Council
Project Site	Rehabilitation of Mavromati Emergency Hospital, Botosani
Scope	<ul style="list-style-type: none">→ electrical installations refurbishment by new electrical panels, cable and cable routes replacement→ restoration of thermal and electrical installations: replacement of main distribution pipes for heating / cold water / hot water, installing new sanitary fixtures and heating radiators→ implementing new voice and data network and fire protection system→ restoring the building's structure→ wards partitioning→ exterior thermal insulation of the building→ manufacturing, delivery and commissioning electrical equipments: main and secondary distribution boards
Value (EURO)	8.100.000



Customer	Botosani Municipality
Project Site	“Cornisa Sports and Leisure Regional Park” Botosani
Scope	<ul style="list-style-type: none"> → structural and architecture works, ventilation and air conditioning installations, swimming pool installations, heating, machinery and technological equipment for pools procurement. → beach systematization, pool fencing, diving platform, pools installations → playgrounds for children, walkways and car parking, access roads → landscaping, reforestation, → sports grounds → artificial pond and artificial river, machinery and technological equipment procurement → electrical installations works: Medium voltage switchgear, PCB 1000 kVA, amphitheatre electrical panels, skating rink, sports grounds, electrical panels → manufacturing, delivery and commissioning electrical equipments: prefabricated concrete substations; main and secondary distribution boards; industrial automation and control switchboards; power distribution and metering equipment's
Value (EURO)	10.000.000





For more information and
references visit us at

www.electroalfa.ro

Manolești Deal 33
Botoșani 710003, România

T (40 231) 532186 (87,88,89)
F (40 231) 532185

office@electroalfa.ro
www.electroalfa.ro
