Our BUSINESS LINES

OUR GROUP

35
OFFICES IN
FRANCE

40
OFFICES IN
35 COUNTRIES

CERTIFICATIONS*
ISO 9001-2008
ISO 14001
OHSAS 18001

QUALIFICATION
OPQIBI

ENGINEERING

- Socio-economic and institutional studies, master plans
- Feasibility and planning studies
- Design services and construction supervision
- Assistance to owners
- Technical and economic studies
- Statutory and safety studies
- Design and build schemes
- Supervision of works / Assistance for project commissioning

CONSULTANCY, AUDITS AND TRAINING

- Market studies
- Financial engineering: funding and cost recovery
- Assistance with public-private partnerships
- Due diligence audits for technical, operational, social and environmental aspects of projects
- Transfer of technical know-how in the context of engineering, consultancy, or project management assignments
- Assistance with operations and maintenance
- Personalised technical training

PROJECT MANAGEMENT

- General co-ordination
- Construction management
- Risk management
- Quality control

ARTELIA

Coteba & Sogreah, same team, enhanced expertise

www.arteliagroup.com

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ELECTRICAL ENERGY
TRANSMISSION, DISTRIBUTION & PLANNING

ARTELIA

Artelia's **electrical energy** activity has developed over a period of **more than 50 years** through projects carried out worldwide. Built on a long heritage and the **proven international experience** of **Sogreah**, it is continuing to grow in total **independence** from any other player in the sector.

OUR CLIENTS

- Energy sector organisations
- Industrial firms, electrical energy generation and distribution companies
- Developers and investors
- International funding bodies

RESOURCES & TOOLS

EXPERIENCED TEAMS covering the full range of issues to be addressed in different countries

SOFTWARE PROGRAMMES:

- power grid analysis
- mechanical calculations for overhead power lines
- investigation of least-cost development plans for power generation facilities
- production capacity calculation and optimisation, management of reservoirs

Independent, multi-disciplinary experts in electrical energy

OUR PROJECT ASSIGNMENTS

- Site inventories and energy development plans
- Economic and financial studies
- Pre-feasibility and feasibility studies
- Preliminary and detailed design studies
- Preparation of tender documents
- Assistance with contract award
- Working design studies
- Supervision of works and project management
- Workshop inspections and factory acceptance tests
- Assistance with the commissioning and connection of facilities
- Assessments and expert appraisals of structures

OUR SKILLS

- Production, transmission and distribution of electricity
- Automation, instrumentation and control systems
- Economics
- Environment (impact assessments, management plans, etc.)
- Works contract management
- Technical and financial expert appraisals
- Consultation procedures for national and regional projects
- Training

OUR FIELDS OF ACTIVITY

ELECTRICAL ENERGY TRANSMISSION AND DISTRIBUTION

- Electrification and interconnection master plans
- Power line route and layout studies
- Network analyses (load flows, short circuits, stability, etc.)
- HV interconnection and transformation substations and lines
- MV distribution substations and networks
- Remote control and monitoring systems (SCADA, load dispatching, etc.)
- Telecommunication facilities (power-line communication, optical fibre)
- Rural electrification
- MV distribution via insulated overhead earth wires on HV lines
- Impact assessments and environmental monitoring plans

ENERGY PLANNING

- Electricity supply and demand studies
- Master plans
- Least-cost development plans
- Economic and financial analyses
- Tariff studies
- Institutional studies

INDUSTRIAL SYSTEMS AND PROCESSES

- Power supplies to industrial facilities (ports, petrochemical plants, etc.)
- Distribution systems with high safety and availability levels
- Automation and measuring systems
- Production and conversion of atypical energy (50/60 Hz)