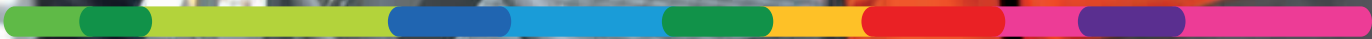




Comprehensive  
energy solutions



# Number one in the field of technical infrastructure and energy services

## Quality

We aim at high quality and comprehensive services for large-scope projects which require expert multitechnical management.

## Flexibility

We provide individual solutions to the projects tailored to meet our customers' specific needs.

## Partnership

We build and sustain long term enduring partnerships that enhance stability and efficiency.

## Innovation

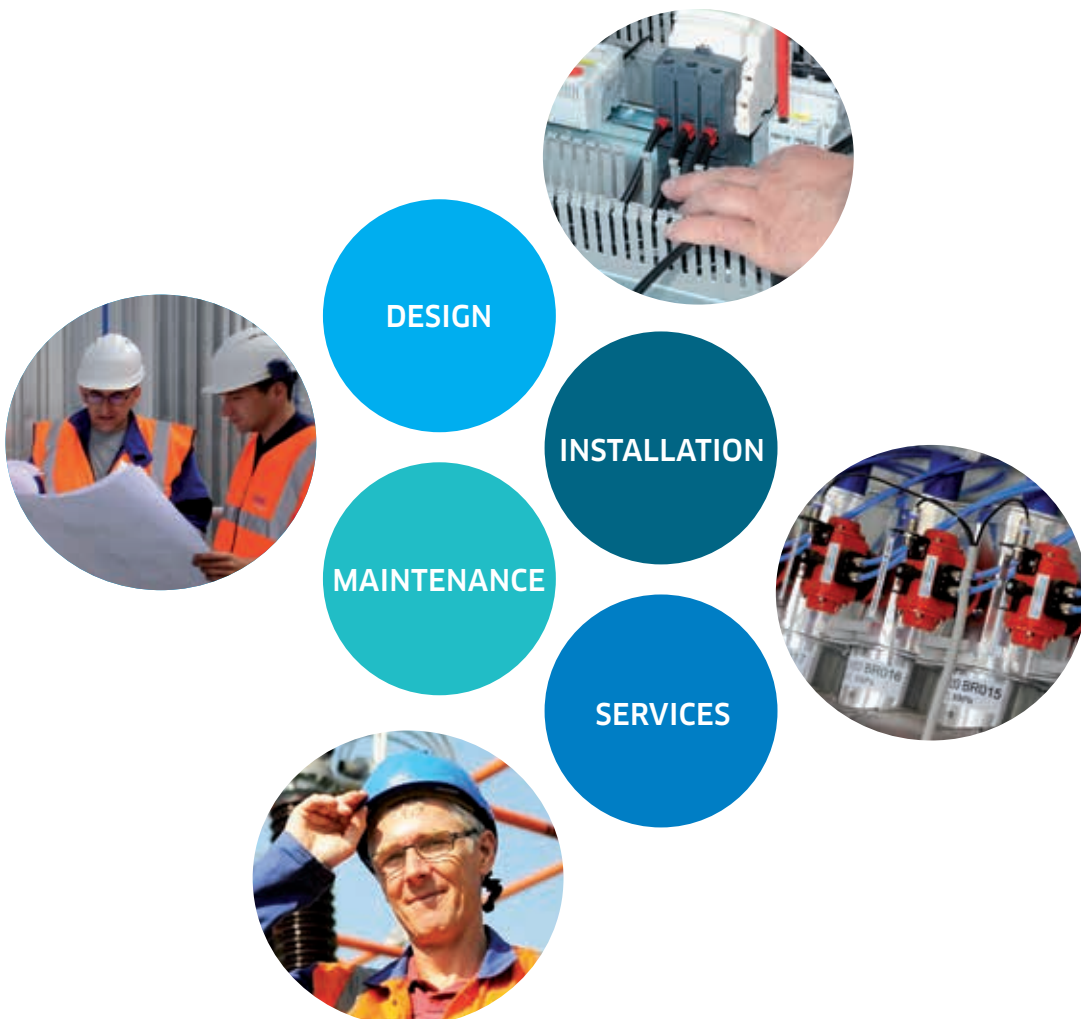
Projection and development of progressive services enable us to improve energy efficiency at our customers' industrial premises and buildings.

## Efficiency

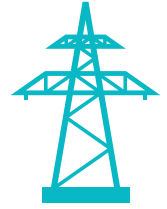
As a certified partner we are committed to ensure maximum efficiency and optimal economical operation of the technologies we supply.

## Stability

We are part of the global Group ENGIE enabling us to support key projects in the field of technical infrastructure and energy services.



# Energy infrastructure



We specialize in the area of supply, overhauling and realization of plants, transmission and switching substations as well as power lines including cable fixtures up to 110 kV.

- Design and engineering service
- Installation of cable fixtures up to 110 kV from renowned suppliers
- Industrial electrical installations

- Refurbishment, supply and installation of appliances from renowned producers that meet compliance requirements for technological procedures
- Installation of compact concrete substations
- Technical supervision and overhauling
- Servicing including maintenance of 110 kV cables



## REFURBISHMENT OF TR110 / 22 KV PRAGUE LHOTKA

Complete refurbishment of the 110 kV substation, 110/22 kV transformer, 22 kV substation, self-consumption, protection and control system was realized during its operation in two years.

### TECHNOLOGY:

- 110 kV outdoor switchgears AREVA
- Outdoor current and voltage instrument transformers PFIFFNER
- Outdoor disconnectors 110 kV SERW
- 3 transformers 110/22 kV 40 mV, SGB
- Control system, protection Siemens
- Gas insulated substation 22 kV Siemens with NXPLUS double-busbar

# Industrial automation



## POWER PLANT: REDUCTION OF EMISSIONS FROM BURNING FOSSIL FUELS

Delivery of comprehensive technology reducing emissions from burning fossil fuels covering project documentation, delivery of switchboards, LV and HV electro installations and I&C.

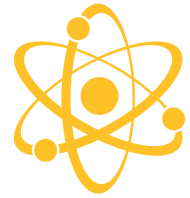
### TECHNOLOGY:

- Delivery of LV switchboards, instrumentation and PLC
- Equipment of HV dungeon cells 6 kV
- Delivery of HV transformers
- Delivery of I&C including measurement of input and output pollutants
- Complete control system integrated into the plant master control system.
- Delivery of frequency converters from renowned producers (2 kW up to 1450 kW)

We implement power distribution units, control and operation systems and visualization systems from leading manufacturers for mechanical and technological units and power sources. We provide solutions covering project preparation, SW development, installation, commissioning and functional testing.

- Implementation of substations and control rooms
- Installation of power-supply and control cable and pneumatic lines
- Installation and configuration of field instrumentation
- Implementation of UPS systems
- Implementation of industrial control systems:
  - DCS large plant control systems
  - Control of autonomous systems
  - Visualization, monitoring and archiving of controlled processes
  - Higher-level client communication systems
  - Standby and safety functions of technological process control

# Building technologies



We deliver design, realization and service of light current and heavy current technologies for modern commercial, industrial and public buildings.

- Heavy current installations - supply and installation of HV substations and transformers of variable amounts of power, LV transmission of power to the end users, installation of control systems, lighting, outlets and other technologies.
- Light current electrical installations including projects, mainly deliveries of EPS systems, evacuation and commercial sound distribution, attendance and access systems, camera systems, land line and data transmission along with delivery and activation of telephone exchanges and active network elements as well as installation of satellite and tv systems.
- Control systems for management of buildings, particularly heating, ventilation, and air conditioning (HVAC) systems.



## RESEARCH CENTRE: COMPREHENSIVE DELIVERY OF ELECTRICAL INSTALLATIONS

Delivery and assembly of comprehensive light current and heavy current electro technical systems including project realization.

### TECHNOLOGY:

- |  |                               |  |
|--|-------------------------------|--|
| ● Light current systems                | - Electronic security systems | ● High voltage power distribution up to 22 kV                                    |
| - Structured cabling                   | - Access system               | ● Low voltage power distribution up to 0,4 kV including delivery of switchboards |
| - Electronic fire signalization system | - Lighting and appliances     |  |
| - CCTV                                 |                               |  |

# Production of switchboards



We manufacture and assemble LV panels up to 1000 V. The panels are designed to meet specific customer requirements. We carefully select the components from the portfolio of renowned producers. Cofely manufactures and uses mainly its own enclosures that meet the highest quality standards worldwide.

### Enclosures and panels

- Standard AR enclosures including accessories
- AR enclosures in 4b form
- AR enclosures - EMC version
- AR enclosures - tropical, stainless version
- Enclosures for seismic and nuclear applications
- AE enclosures - wall mounted
- OKKEN panels - withdrawable configuration in Schneider Electric license

### Power and control panels

- Distribution, secondary
- Power factor correction panels
- Motors and lighting



- MCC modular panels
- Operation of technological processes
- Metering panels
- Data panels
- Protection panels
- Electro pneumatic facilities and assembly lines
- Building technologies panels
- EMC protection panels
- Atypical free standing panels

# Technical and facility services



Complex technical and facility services necessary for efficient and economical management of industrial premises and buildings. Taking advantage of professional technical background, we provide comprehensive facility management with regard to the project implementation stage and individual customer requirements.

## Technical service

- Regular service of light current electrical appliances and security systems.
- Remote monitoring and control systems
- Refurbishment and optimization of light current and security systems
- Regular functional tests, performance capability check and revision of light current and security systems
- Regular maintenance and servicing of light current and security systems

## Facility service

- Technical management
- Administration services
- Complex control and coordination of technical processes and auxiliary services.
- Thermovision diagnostics
- Energy management
- Performance of PO, BOZP
- Maintenance of exterior, gardening and plantation, road maintenance

- Help-desk / call-center/ 24/7 service
- Waste management
- Security, reception services, cleaning services, deratization, disinfection

## FACILITY MANAGEMENT AND TECHNICAL MAINTENANCE OF SELECTED TECHNOLOGIES

Technical service and maintenance of the technologies in the pharmaceutical production facility of 100 000 sqm<sup>2</sup>

### TECHNOLOGY:

- Regular servicing and revision of electrical appliances
- Service, operation and revision of MaR for selected machine units
- Maintenance and operation of water treatment plant
- Development of solutions for optimization of production costs and energy saving
- Emergency service



# Energy services



## TOWN MALACKY: REDUCTION OF ENERGY INTENSITY

EPC project to reduce energy consumption of the heating facilities and buildings owned and run by the town.

### TECHNOLOGY:

- Advanced construction and building technologies with emphasis on long-term durability, efficient and reliable operation of individual units and buildings.
- Investment and all related costs for energy-saving measures
- Annual savings of 28% during the first 10 years
- Supervision of energy consumption in the buildings

In the field of energy services, we are committed to find long-term energy efficiency concept for our customers by means of reduction of long-run costs, compliance with the existing regulations, reduction of emissions and by other means of energy efficiency.

- Energy consulting
- Energy controlling

- Financing, energy ROI
- Energy audit - assessment of the existing conditions and development of energy saving measures enhancing reduction of energy consumption, calculation of anticipated investments
- Technical design and its prospective implementation
- Supervision and servicing





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