



SPECIALIST FOR INDIVIDUAL & TURNKEY SOLUTIONS IN THE FIELD OF LOW AND MEDIUM VOLTAGE AND INDUSTRIAL POWER SUPPLY

TIG specializes in electrical engineering, energy technology, retrofitting and service for industrial and community enterprises. We see ourselves as a technical service provider, a competent and qualified partner in electrical energy and building technology, and as an industrial network service provider. Our portfolio of services covers the entire spectrum of power supply in the medium and low-voltage range, from planning, project management and fitting to commissioning, as a partial or turnkey service. This includes converting and expanding existing installations and adapting old ones to changing legal requirements and regulations, as well as measuring and analyzing procedures for assessing installation systems and their associated components.

Engineering

- Actual state network analysis
- Network modeling
- Load current & short circuit current calculation
- Selectivity analysis
- Calculation of protection settings
- Drawing up design and functional specifications
- Planning and concept development
- Commissioning

Energy technology

Delivery, installation and commissioning of:

- low & medium voltage switchgear installations
- transformers
- reactive current compensation installations
- in-house power supply installations
- active or passive line filters
- station buildings
- grounding installations
- cable support systems
- cable and rail system

Electrical engineering

Delivery, installation and commissioning of:

- lighting installations
- security lighting
- low-voltage technology
- communications engineering, security technology
- grounding and lightning protection installations

- cable routing
- building structure fire protection

Measurement technology

- Primary & secondary protection testing
- Determination of compensation requirements
- Recording and analysis of power quality according to EN50160 and EN 61000-2-x
- Thermographic investigations
- Partial discharge measurement
- VLF 0.1 Hz insulation testing
- AC voltage withstand testing
- Vacuum tests on circuit-breakers
- Micro-ohm measurements up to 600 A

Service and retrofit solutions up to 36 kV

- Upgrading of existing installations in accordance with VDE/IEC guidelines
- Conversion and expansion of existing installations
- Retrofitting and conversion of switchgear installations with modern protection, control and monitoring devices
- Replacement of primary and secondary devices
- Disassembly and disposal of old installations and components in accordance with current legal requirements
- Maintenance of MV, LV switching devices & components
- Spare part provisioning

As part of ROBUR, TIG offers even more: almost 3,000 employees globally work in the wind, water, energy, industrial and process industries. As expert partners for our customers we create holistic solutions from planning and implementation, to maintenance and operation, to the relocation and decommissioning driving the challenges of digital transformation and ecological change.