

# SZM

Schaltanlagen  
Zubehör

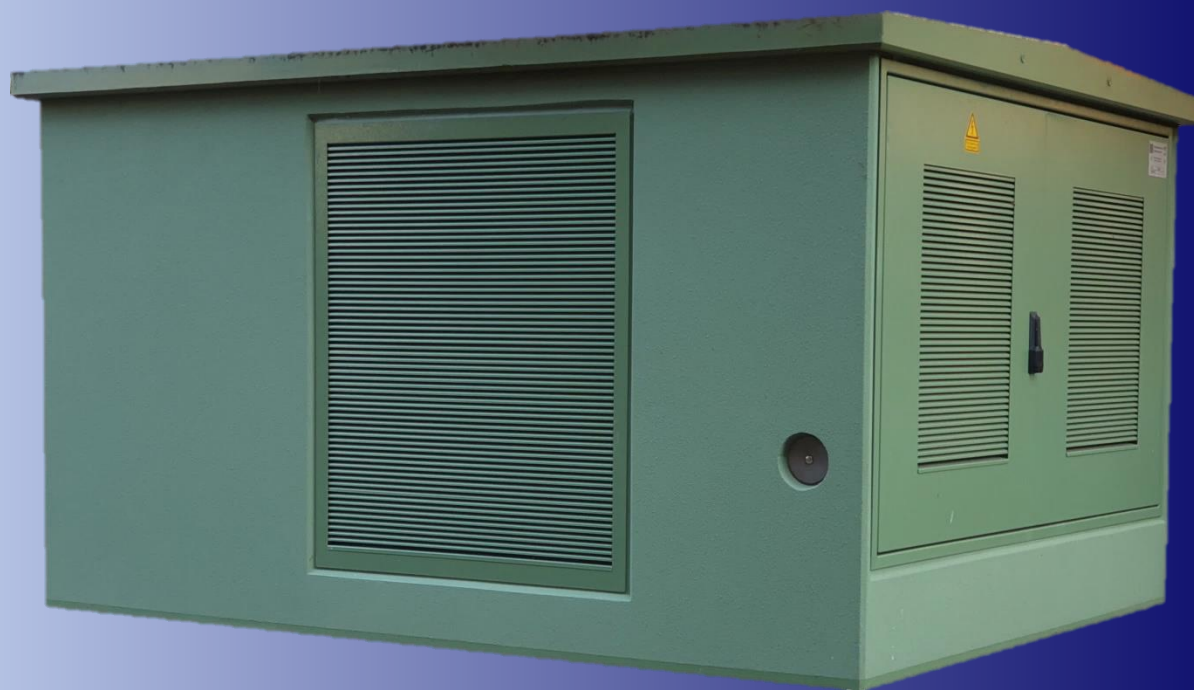
Bad Muskau  
**ZUSCHA Boss**



*Reliable Switching of Higher Voltage Current*

## Service - Location North -

24 h Hotline: +49 40 72923-151



SchaltanlagenZubehör Bad Muskau GmbH was founded in the year 1999 and expanded its business activities in 2016 to include the North competence location. Our services at the North site are carried out by a team of experienced professionals who have many years of experience in the field of medium and low voltage technology.

Our strength is our intensive and practice-oriented cooperation with the customers. With a maximum of flexibility and diversity, we respond to the customer requirements and offer complete solutions for the individual applications. Naturally, our products comply with ISO 9001:2015 certification and the technical connection rules (TCR) of the network operators.

Our greatest capital is our highly motivated qualified employees and we are always available to the customers in all project phases. Further education and training helps us to secure and expand the know-how that we have acquired over the years.

## Our product portfolio includes shipment - assembly - service of:



# Our services

Maintenance, cleaning, testing, servicing, inspection and commissioning of:

**Substations**



**Switchgears up to 36 kV**



**Switching devices up to 36 kV**



**Transformers up to 36 kV**



**Low-voltage switchgears**



**Protective devices**



# Substations

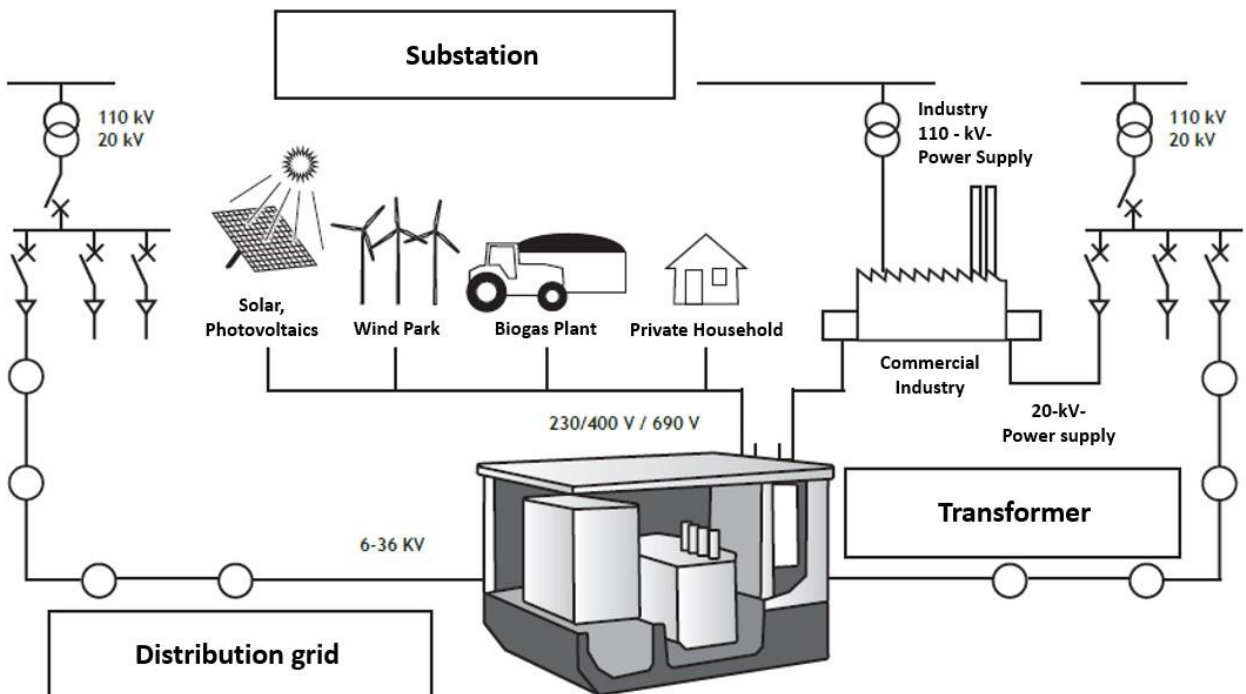
## Ready-to-use solutions - independent of manufacturer

Our stations are industrially manufactured units consisting of:

- A concrete housing
- Medium voltage systems
- Transformers
- Low voltage distributions
- Compensation equipment
- MS and NS measurements
- Control and telecommunication engineering
- Protection technology

Application areas:

- Public power supplies
- Industrial energy distribution systems
- Building site power supplies
- Renewable energies:
  - \* Wind energy
  - \* Combined heat and power unit (CHP unit)
  - \* Biogas plants
  - \* Photovoltaics





# Substations

## Walk-in substations

The Walk-in substation units offer a wide range of possibilities for every area of application. Due to their modular design, wide range of colour and surface designs, any desired adaptation to the environment can be achieved. The solid cubicle with cable cellar is manufactured seamlessly from a one-piece casting. An intermediate floor can be made of either concrete or aluminum press bar profiles and/or galvanized steel profiles. Also, the height-adjustable galvanized steel supports are prepared for the switchgear that to be installed. The accessible areas are covered with composite wooden panels and interlocked. The spatial separation of a concrete room cell, e.g. as a medium voltage, low voltage, meter or a transformer, can be accommodated by ten centimeter thick concrete interior walls.

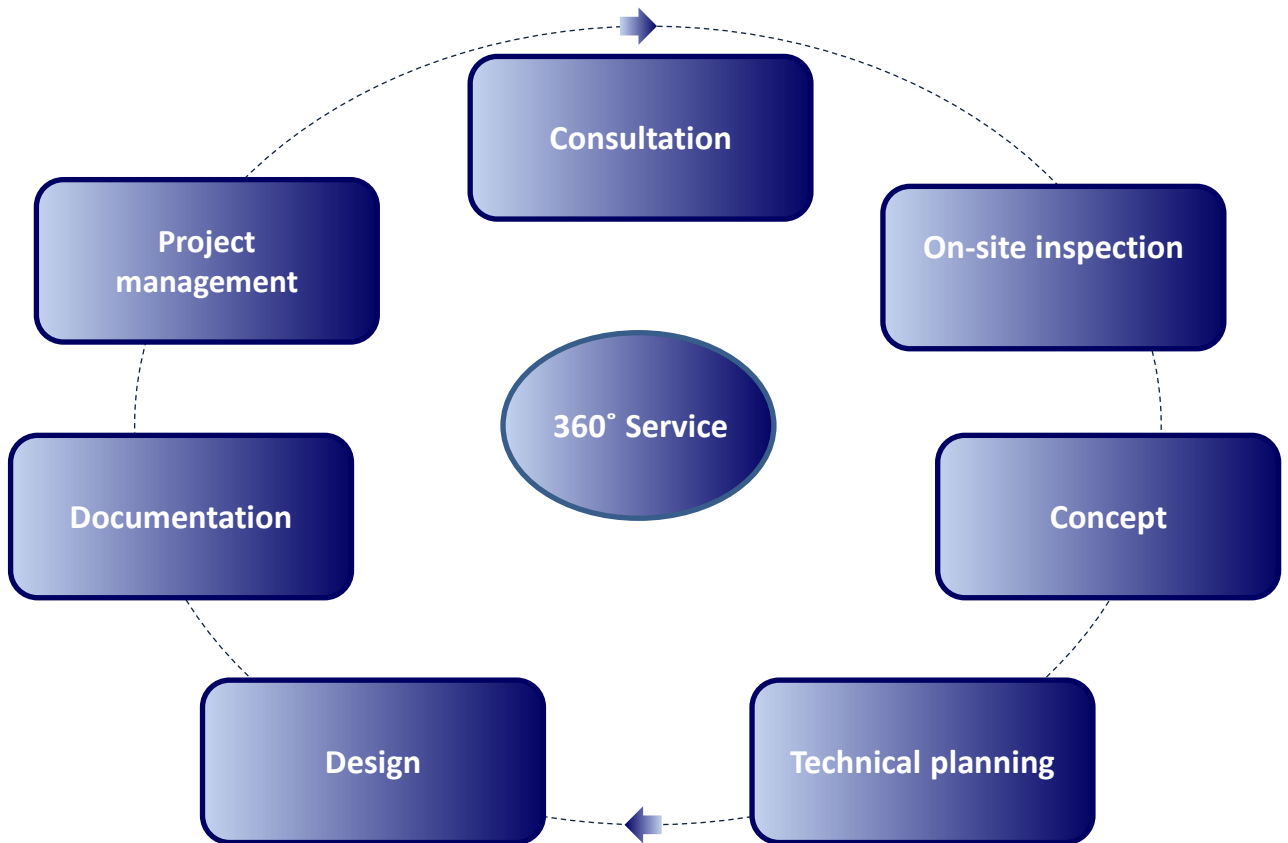


## Compact substations

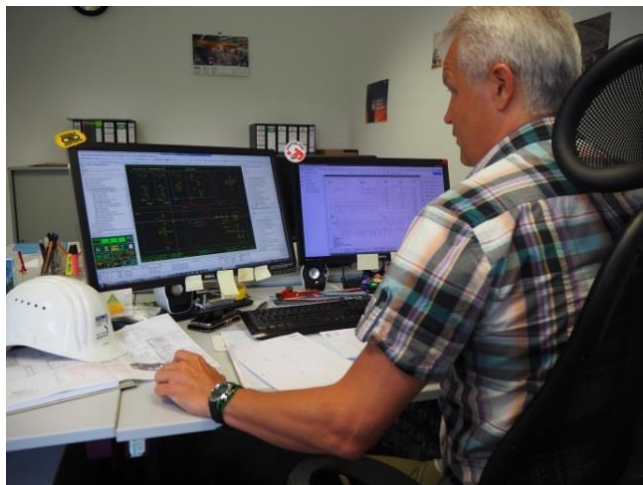
The substation body consists of high-strength reinforced concrete with strength class C35/45 and exposure classes XC4, XF1 and XA1 according to DIN 1045-2 EN 206. An integrated cable cellar also serves as a foundation, so that cables can be inserted underground. The transformer chamber is equipped with an oil collecting tray and, due to the FD quality (liquid tightness) of the concrete, offers the required water protection without any additional coating. The ceiling is designed as a separate roof slab with a slight incline on both sides. It has a sliding design and can be removed for changing transformers or equipment. The partition walls can be reduced to the height of the door sill.



Our skilled development team is always at your service to develop individual solutions for even the most demanding topics in electrical and mechanical engineering. Our know-how and unique experience enable us to develop products that meet the special requirements and expectations of our customers. Our network with partners in the power supply and power transmission sector helps us to offer complete solutions.



In the implementation of the individual projects we rely on EPLAN P8, which is a CAE solution for the project planning, documentation and management of electrotechnical automation projects.



# Other parts of our supply and service range:

## RETROFIT

SZM GmbH (SchaltanlagenZubehör Bad Muskau GmbH) offers extensive possibilities for RETROFIT solutions in the area of medium - and low voltage thanks to its many years of experience.

## Mechanical production

SZM GmbH operates in a modern work environment, using conventional and primarily CNC-controlled metal processing centres. We manufacture with maximum precision, from individual pieces to medium batch sizes. We process a large variety of metal materials which we can also refine as required (hardening, grinding, galvanising, silver-plating etc.)

## Switching devices

Production of load-break switches type C3.

## Switchgear systems

We offer you an extensive range of medium voltage switchgear systems for primary distribution, both standard solutions, but also tailor-made specific customised solutions from development to type testing. Our range includes air and inert gas insulated switchgear panel with a selection of different switching devices such as SIMOPRIME and SAM and much more.

## Drives

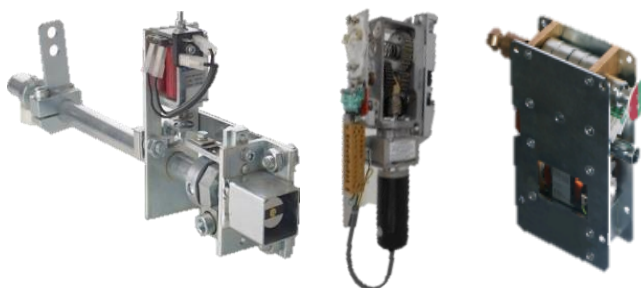
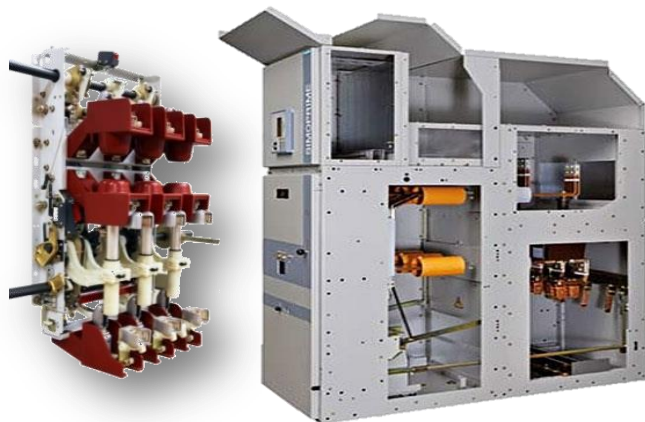
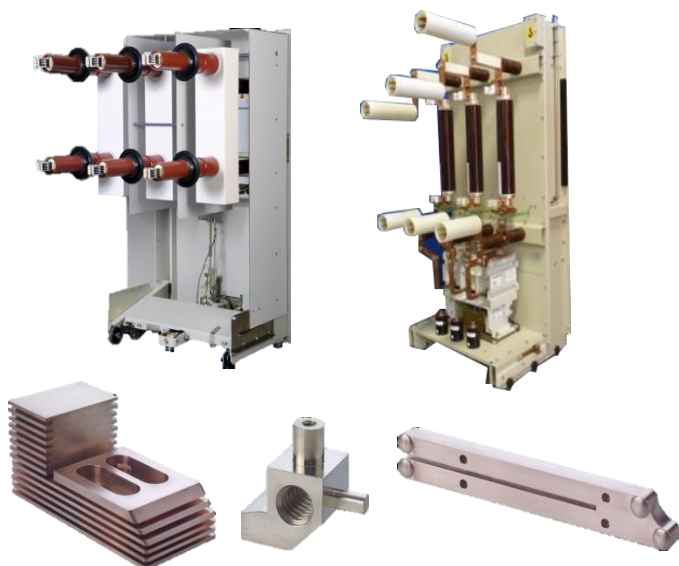
We design and produce manual and motorized drives for medium voltage load-break switches, disconnecting switches and earthing switches of various makes.

## Accessories

Various accessories for switchgear construction such as shaft extension, attachment sets for signalling switches, clamps for round bus bars, locks and much more.

## Design

SZM GmbH designs modern products for the energy market, especially medium voltage switching devices but also switchgear systems, drives for switching devices and RETROFIT solutions for the exchange of worn out devices. We provide a one stop shop, from giving competent advice to design, prototyping and to full type testing. We are equipped with all required CAD software, modern electrical test lab and advanced measurement technology.







[www.szm-gmbh.de](http://www.szm-gmbh.de)



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