

LAHMEYER COMPACT SUBSTATIONS



LAHMEYER
Compactstation

www.sgb-smit.com

SGB-SMIT AT A GLANCE

HISTORY



1913

SITES



15

EMPLOYEES



3,800

TRANSFORMING TOGETHER THE FUTURE OF ENERGY

The SGB-SMIT Group manufactures reliable and efficient transformers in line with demand and adapted to our customers and their requirements for applications worldwide.

Sales and service centers on all continents ensure optimum processes.

Our goal is to help our customers accelerate the transition from conventional energy sources to renewable alternatives and the expansion of electrification.

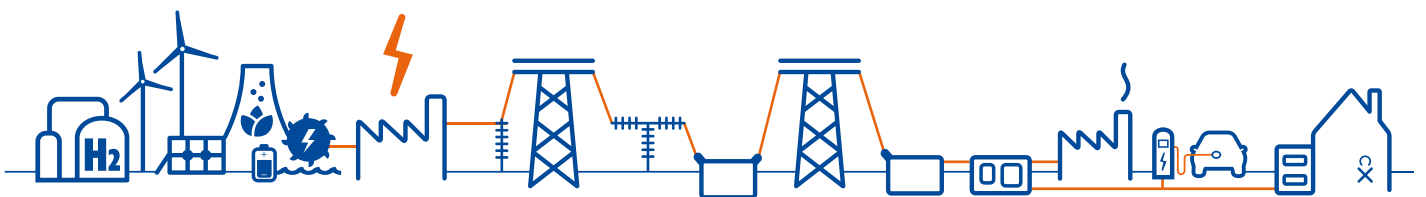
With our products, we ensure a safe and reliable supply of energy.

PRODUCTS



- large power transformers
- medium power transformers
- large liquid-immersed distribution transformers
- liquid-immersed distribution transformers
- dry type transformers
 - cast resin transformers
 - VPI transformers
- shunt reactors
- series reactors
- phase shifters
- Lahmeyer-Compactstationen (compact substations)

Transformers from 30 kVA up to incl. 1,200 MVA in the voltage range up to 765 kV.



TRANSFORMING TOGETHER THE FUTURE OF ENERGY

FLEXIBLE EFFICIENT SECURE



SBG Neumark – market leader for light-weight designed transformer-substations – is the reliable and flexible partner for the fast and inexpensive delivery of individual, safe and high-quality complete solutions.

VOLTAGE RANGE UP TO 36 kV POWER RANGE UP TO 4,000 kVA

Features of Lahmeyer Compact Substations:

- ready-to-connect
- very robust
- compact design
- highest safety
- easy to transport
- easy to install
- nearly maintenance free
- eco-friendly
- sustainable



TRANSFORMER & SUBSTATION DOUBLE THE EXPERTISE FROM A SINGLE SOURCE

- experience from over 60 years
- dedicated to our customers
- future-oriented enhancements
- highly skilled workers
- continuous inspections
- highest quality and environmental standards
 - ISO 9001 certification
 - ISO 14001 certification
 - ISO 45001 certification
 - ISO 50001 certification
- excellent cost-performance ratio



MODULAR SYSTEM, DIFFERENT SIZES



- customized compartment configuration
- place for up to two transformers
- Individually replaceable housing elements (e.g. for adding compartments) without need for new type test
- compact and space-saving
- easy access
- easy uprating (different or additional transformer)

Substation type	Footprint (length x width)	Maximum rated power	Maximum weight*
LCS-E.83 (max. 24 kV)	3,000 x 1,340 mm	800 kVA	5,500 kg
LCS-E.84 (max. 24 kV)	3,000 x 1,690 mm	800 kVA	5,900 kg
NDV 630 (max. 24 kV)	3,000 x 1,600 mm	630 kVA	7,500 kg
NDV 1100 (max. 24 kV)	3,000 x 2,400 mm	1,600 kVA	11,500 kg
NDV 2510 (max. 24 kV)	3,000 x 2,400 mm	2,000 kVA	9,200 kg
WPS 2500 (max. 36 kV)	4,500 x 2,500 mm	4,000 kVA	14,000 kg

*weight with max. transformer size; lighter with smaller transformer

USE OF WELL-KNOWN SWITCHGEAR BRANDS

Medium voltage:

- Siemens
- ABB
- Schneider Electric

Low voltage:

- ABB
- UESA
- Jean Müller
- EFEN
- Siemens





WORLDWIDE OPERATION SINCE 1963

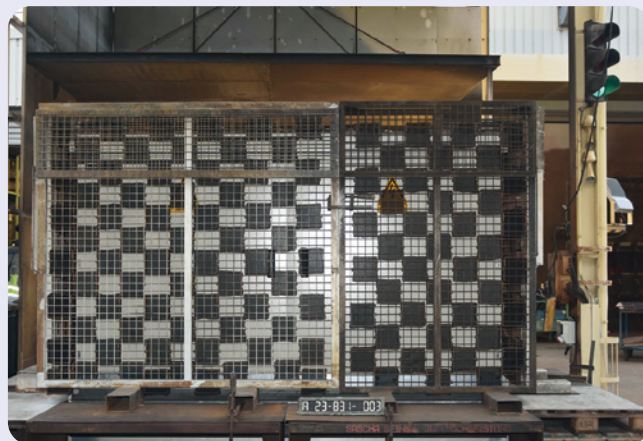
Lahmeyer compact substations from SBG
guarantee functional reliability in all the
climate zones of the world.

LAHMEYER COMPACT SUBSTATIONS: HIGHEST SAFETY AND RELIABILITY

- factory-assembled and routine-tested units
- safety-tested according to IEC 62271-202
- long lifetime
- routine-tested cable-connections
- independent and tested arc fault protection system (20 kA, 1 s)
- EMC safety ($< 100 \mu\text{T}$)
- ingress protection (IP-protection)
- safe closing
- protection against intrusion of ground and surface water

SMALL - LIGHTWEIGHT - UNREMARKABLE

Thanks to its very compact dimensions, SBG compact substations easily blend into the cityscape and environment.



INDIVIDUAL REQUIREMENTS





VARIABLE TRANSFORMERS

- transformers with 9-step tapping range
- tap changing on load
- remote or auto control
- tap settings according to customer specifications
- for use in all substation types

INDIVIDUAL DESIGN

- individual coloring (RAL-color system) and graffiti-protection coating possible
- enclosure made of galvanised steel sheet
- 100% pore free powder coating
- very high corrosion protection
- resistant to heat, cold, UV radiation, salty and aggressive environments (e.g. in industrial areas)
- sustainable and reusable materials



DELIVERY & INSTALLATION

- transport and unloading with crane truck
- water protected cable inlets without gaskets
- easy foundation grounding



SERVICES AND SPECIAL SOLUTIONS



A VARIETY OF SERVICES AND SPECIAL SOLUTIONS

- dry-type transformers (e.g. for water protection areas)
- mobile substations on trailer or on skids
- rental substations
- installation of remote monitoring and remote control technology
- substations for traction current
- on-site conversions (e.g. for upgrading)
- train air-conditioning systems
- systems for reactive power filtering
- systems for (short-time) low-resistance neutral earthing (NOSPE / KNOSPE)



E-MOBILITY

- supply station with rapid charging systems
- ideally suited for use at service areas and truck stops
- planning and production according to individual customer specifications
- combined solutions with feed-in possible
- Europe-wide deployment
- experience in supplying different distribution network operators



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