

LAHMEYER

Compact-transformer-substation®



Classy, low cost, matching the environment!

You are looking for a reliable and flexible partner, who is delivering fast individual, inexpensive, safe and high-class solutions?

SBG Neumark - Market leader for light-weight designed compact-substations!



Spheres of competence of SBG Neumark:
Transformers and compact-transformer-substations

**Transformer and substation:
Both competences from one source**

- experience from over 60 years of transformer- and substation-design
- future-oriented enhancements
- high qualified employees
- continuously inspections
- highest standards of quality and eco-friendliness (certified according to EN ISO 9001 and EN ISO 14001)
- shortest delivery times (up to 28 days for common types)



Latest technology in our production:
Visualization

**Our high-quality work is
Your operational reliability**

**substations for medium-voltage,
performance-ranges up to 2500kVA (690V)**

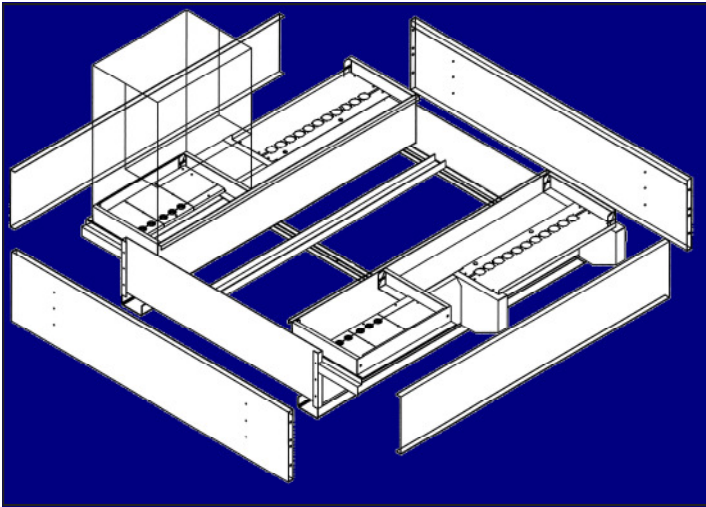
You gain a station ready-for-connection, characterized by

- robustness
- compact design
- highest safety
- excellent cost-performance ratio
- easy transportation
- easy installation
- no need for maintenance
- Eco-friendly



Our manufacturing

modular system



casing of a NDV1600, exploded drawing

- individual adaptable
- separate compartments for transformer, MV- and LV-gears
- broken housing-parts separate exchangeable (e.g. after car accidents or vandalism)
- easy access: housing particular or complete detachable on-site
- easy uprating (transformer change, build-in of a second transformer)



LCS-E, housing detached on-site

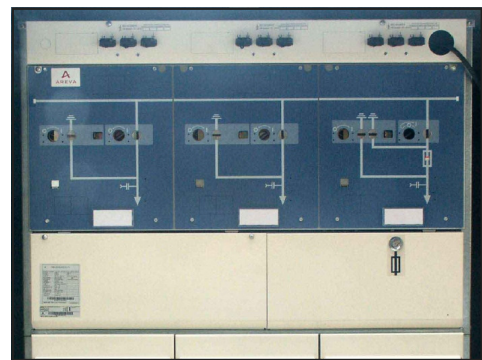
all well-known MV-switchgear manufacturer applicable



Siemens



ABB



AREVA



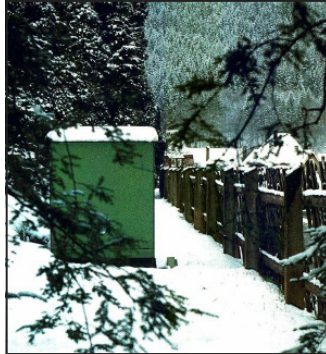
Ormazabal

**worldwide operation
since 1963**

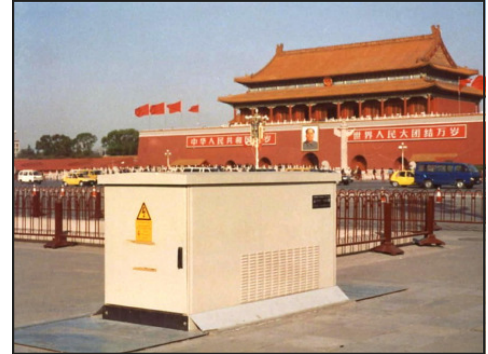
under toughest conditions:
in Europe, Asia, Middle East, Central America, Africa
Operation reliability in all climes



NDV1600 in the Alpes

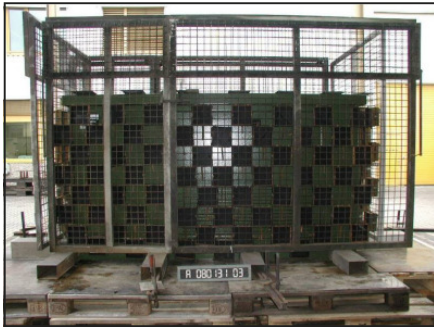


LCS-E under winter-conditions



NCV700 in Beijing

**highest safety and
reliability**



Test of a LCS-E.7 against arcing due to internal fault at „Testing Laboratory Medium Voltage“ in Frankfurt/a.M. (Germany).

- factory-assembled and single-tested units
- projected safety according to IEC 62271-202
- long lifetime (at least 40 years)
- single-tested cable-connections
- tested protection against arcing due to an internal fault (20kA, 1s)
- EMC-safety ($\leq 15\mu\text{T}$)
- protection against contact (stoke safe)
- doors protected against unauthorized removal
- protection against intrusion of ground and surface water

**LAHMEYER Compact-substations®:
small - lightweight - unremarkable**



NDV400 in an urban area

Due to smallest dimensions,
our transformer-substations
fit harmonic in townscape and environment!



LCS-E at the roadside



Up: LCS-E
Center: NDV400
Bottom: NDV1600

Use Your substation as advertising space

- individual colouring (RAL-colour system) up to graffiti-protection
- enclosure made of hot dip galvanized steel sheet
- 100% poreless powder coated
 - above ground single (>70µm),
 - in the ground double (140µm) + increased zinc coating
- guaranteed corrosion protection
- fire protection class F90
- resists heat, coldness, UV-radiation, salt and aggressive environments (e.g. in industrial areas)
- environmental harmless and non-inflammable materials



NDV400



NDV400

Delivered, connected, finish!

Our substations can be moved and loaded with truck cranes.
No basement needed! That saves Your time and money!
Less weight, less costs!



Truck-transport of four NDV1600



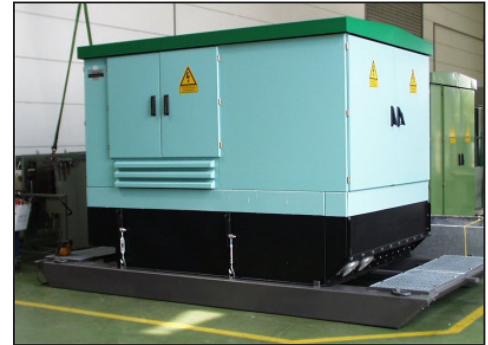
Setting up of a NDV400 by truck-crane



positioned LCS-E without basement

We offer You further services and special solutions:

- cast-resin transformers (e.g. for water protection areas)
- build-in of telecontrol devices
- concrete-basements (for NDV400-series)
- movable substations with vats
- replacement-parts for our substations
- On-site-modification (e.g. for uprating)
- substation-renting
- train-preheating-devices
- pump stations
- MV-substation NCV300 (over-ground socket)
- installations for temporary low-resistance neutral earthing



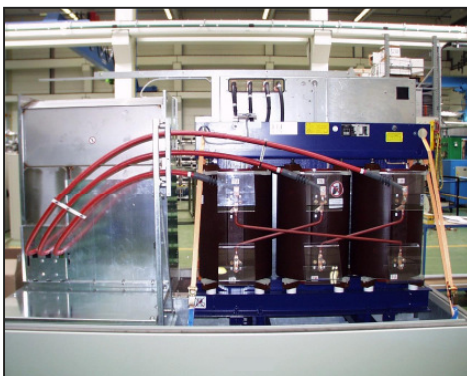
movable substation with vats



temporary low-resistance neutral earthing



rentable transformer-substations



NDV400 with cast-resin transformer



NDV401-train-transformer-substation with 16 ²/₃ Hz