

# 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



Latest technology in our production:  
Visualization

**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

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

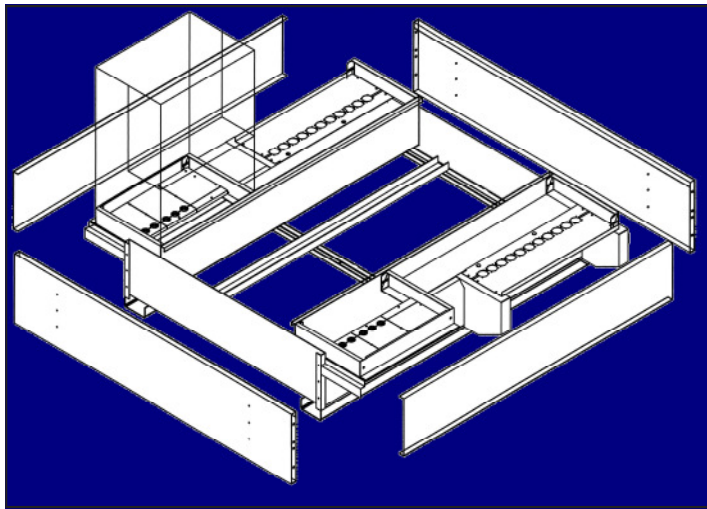
- experience from over 60 years of transformer- and substation-design
- future-oriented enhancements
- high qualified employees
- continuously inspections
- highest standards of quality and eco-friendliness (certified according to EN ISO 9001 and EN ISO 14001)
- shortest delivery times (up to 28 days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

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



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

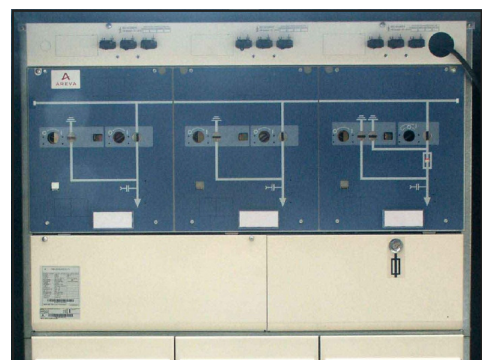
**all well-known MV-switchgear  
manufacturer applicable**



Siemens



ABB



AREVA



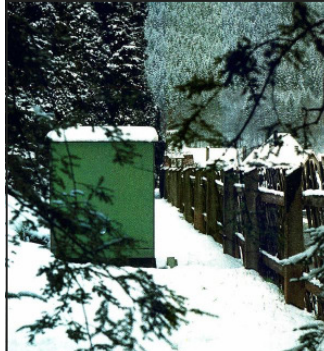
Ormazabal

**worldwide operation  
since 1963**

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



NDV1600 in the Alpes

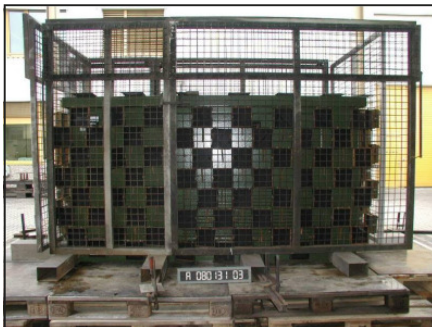


LCS-E under winter-conditions



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 ( $\leq 15\mu T$ )
- protection against contact (stroke 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 ( $>70\mu\text{m}$ ),
  - in the ground double ( $140\mu\text{m}$ ) + 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



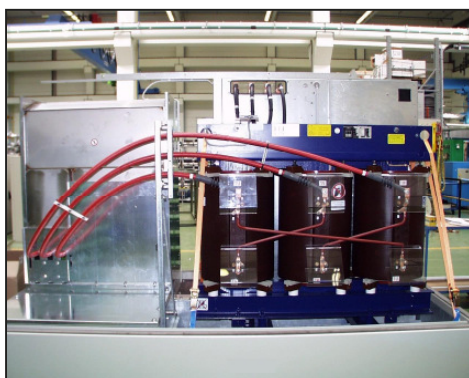
movable substation with vats



temporary low-resistance neutral earthing



rentable transformer-substations



NDV400 with cast-resin transformer



NDV401-train-transformer-substation with 16  $\frac{2}{3}$  Hz

**SBG Neumark**

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