

Providing full service consulting for power utilities

For experts by experts



**Asset
Management**

Brugg Cables

The innovative, Swiss cable manufacturer with a comprehensive range of services in power transmission and distribution.

Whether you have questions, ideas or suggestions, current or future projects, come and talk to us. Your contact at the sales department:
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BRUGG CABLES ACADEMY
Stay connected.

Please find more details on the courses currently offered in the online documentation www.bruggcables.com/academy

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Find more detailed information about our products and services on
www.bruggcables.com



bruggcables.com



Asset Management

for High Voltage Cable Systems up to 500 kV



Brugg Cables Services

The Brugg Cables Services consists of a team of engineers, project managers and technicians. Our team has longterm experience in all facets of the industry. We are customer oriented and interested in a life-cycle partnership, which gives our clients the confidence that the results represent their interests. We offer comprehensive services packages: Engineering Services, Asset Management, Emergency Repair, Testing Services.

We routinely work with all stakeholders including field staff, engineers, non-technical senior management, board of directors, regulators, litigators, and the public. All of this combined with our proficient skills in technical writing results in readable reports that are easy to follow and apply.

Our clients include distribution cooperatives, generation and transmission cooperatives, investor-owned utilities, municipal utilities, public utility districts, and industry associations.

Asset Management is our solution to support our customers over the whole lifecycle of high voltage assets.



Maintenance Concepts

Condition-based maintenance
Replacement of assets at the end of their lifecycle.

Incident-based maintenance
Repair and recondition of assets in case of failure and damage (see also our Emergency Response Solution).

Preventive maintenance
Replacement of assets according to fixed cycles.

Example
Replacement of oil expansion tanks after 35 years of use in desert regions.

Cable System Analysis

Brugg Cables service portfolio comprises various cable circuit measurements. Below you can see a few of them:

- High voltage test
- Thermography
- tan δ-measurement
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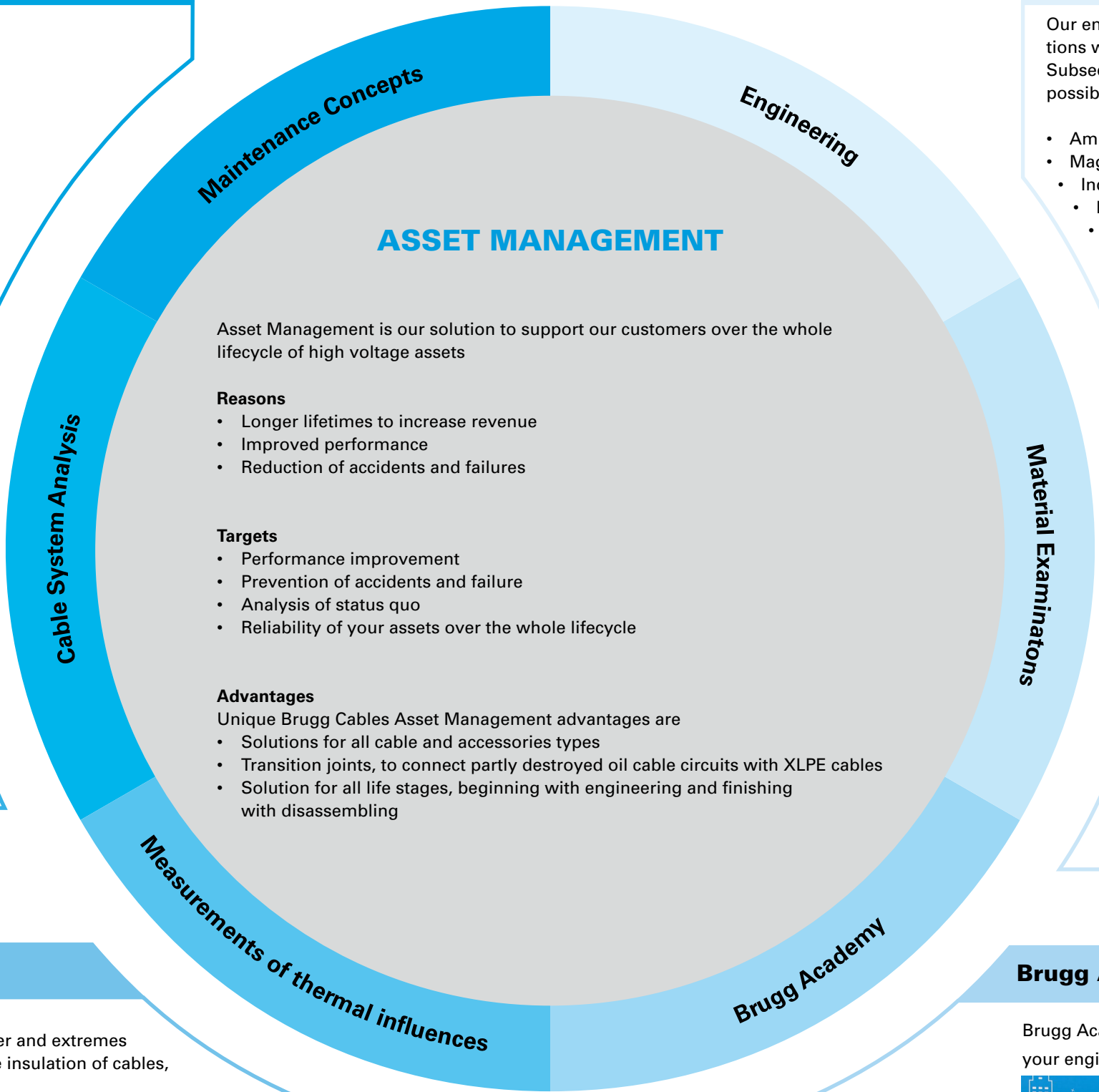
Example
Thermographical measurements are predestined to determine overheat on cable circuits, especially on outdoor sealing ends and terminations.

Measurements of thermal influences

Thermal resistivity
Measuring of ground helps to prevent the impact through water and extremes of cold and heat to high voltage cable circuits, especially to the insulation of cables, joints and terminations.

Electrical resistivity
Insufficient distances between high voltage cables and circuits lead to interferences, which can damage or destroy high voltage cable circuits.

Example
Before the installation of new constructions, the influences of these on cable lines must be checked, so that the optimum performance can be guaranteed.



Asset Management is our solution to support our customers over the whole lifecycle of high voltage assets

- Reasons**
- Longer lifetimes to increase revenue
 - Improved performance
 - Reduction of accidents and failures

- Targets**
- Performance improvement
 - Prevention of accidents and failure
 - Analysis of status quo
 - Reliability of your assets over the whole lifecycle

- Advantages**
- Unique Brugg Cables Asset Management advantages are
- Solutions for all cable and accessories types
 - Transition joints, to connect partly destroyed oil cable circuits with XLPE cables
 - Solution for all life stages, beginning with engineering and finishing with disassembling

Engineering

Our engineer experts are able to conduct different calculations with our specific software. Subsequent are the most common of various calculation possibilities listed:

- Ampacity
- Magnetic field
- Induced voltages
- hydraulic Oil pressure calculations
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Example
The calculation of induced voltages and the possible installation of grounding systems enables the protection of man and the environment.

Material Examinations

Material examination are a efficient indicator to determine the condition of high voltage cable circuits.

To name only a few of Brugg Cables material examination portfolio:

- Oil analysis
- Paper analysis
- Lead analysis
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Example
Continuous oil analysis allows to predict the lifecycle of cable circuits.

Brugg Academy

Brugg Academy provides theoretical and practical courses for your engineers, specialists and assemblers

