

PRESS RELEASE

## **BAUR analysis software for optimised asset management**

### **Reliable estimation of statistical remaining cable life time with statex<sup>®</sup>**

**Sulz, June 2019** - If you want to keep your medium-voltage cables in service for as long as possible without jeopardising security of supply, statex<sup>®</sup> from BAUR is the planning tool you need. The new analysis software evaluates the data from the dissipation factor measurement (tan  $\delta$  measurement) and uses a patented algorithm to calculate the statistical remaining cable life time. The statistical calculations carried out by statex<sup>®</sup> permit more accurate predictions than evaluation according to IEEE 400.2, which only allows for statements such as "OK" and "action needed". This is because the statex<sup>®</sup> software is based upon a stored data pool and also takes into account the additional parameter TD-Skirt, which predicts the stability of the dissipation factor over several measured values in a measurement cycle. The algorithm used in statex<sup>®</sup> has already proven itself. It was developed by Korea Electric Power Corporation (KEPCO) and the University of Mokpo (Korea) and its statistical analyses draw upon results from 45,000 cable routes.

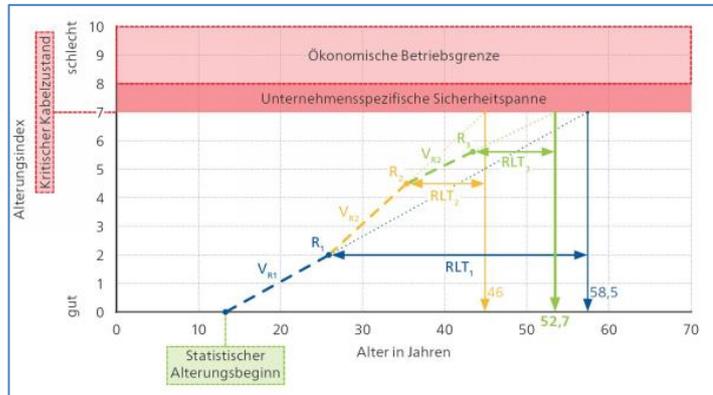
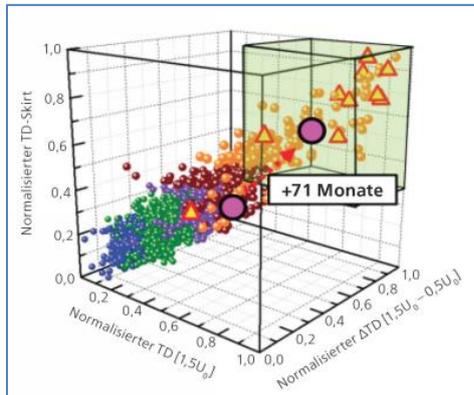
#### **Identification of potential savings using statex<sup>®</sup>**

Studies by KEPCO have shown that it's often possible to delay investment in replacement cables. The evaluation of measurement data using the statex<sup>®</sup> algorithm allows cable condition to be assessed significantly more accurately, resulting in a remaining cable life time around eleven years longer than that achieved when estimating using IEEE criteria, even for a high-quality distribution network. This meant that existing cables can be kept in service for longer, considerably reducing maintenance costs.

#### **Calculation of remaining cable life time based on a diagnostic measurement**

statex<sup>®</sup> provides reliable analyses right from the initial dissipation factor measurement, but when repeat measurements are performed on the same cable, the statistical software draws upon the previous results to produce an even more precise prediction. In addition to the expected remaining life time, the software also provides recommendations as to when the next cable diagnostics should be performed and for the scheduling of maintenance work or cable replacement. The statistical tool includes both the economic operating limit and an individual user-defined safety margin, meaning that you can simply lower the "warning threshold" if you require extra safety.

You can find further information at [www.baur.eu](http://www.baur.eu)



The *statex*<sup>®</sup> pro software calculates the expected remaining life time based upon  $\tan \delta$  at  $1.5 U_0$ , the difference between  $\tan \delta$  ( $1.5 U_0$ ) and  $\tan \delta$  ( $0.5 U_0$ ), and TD-Skirt, as well as statistical calculations based on a data pool. TD-Skirt indicates trends or fluctuations of  $\tan \delta$  over multiple measurements.

You can find print-ready images under [this link](#).

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