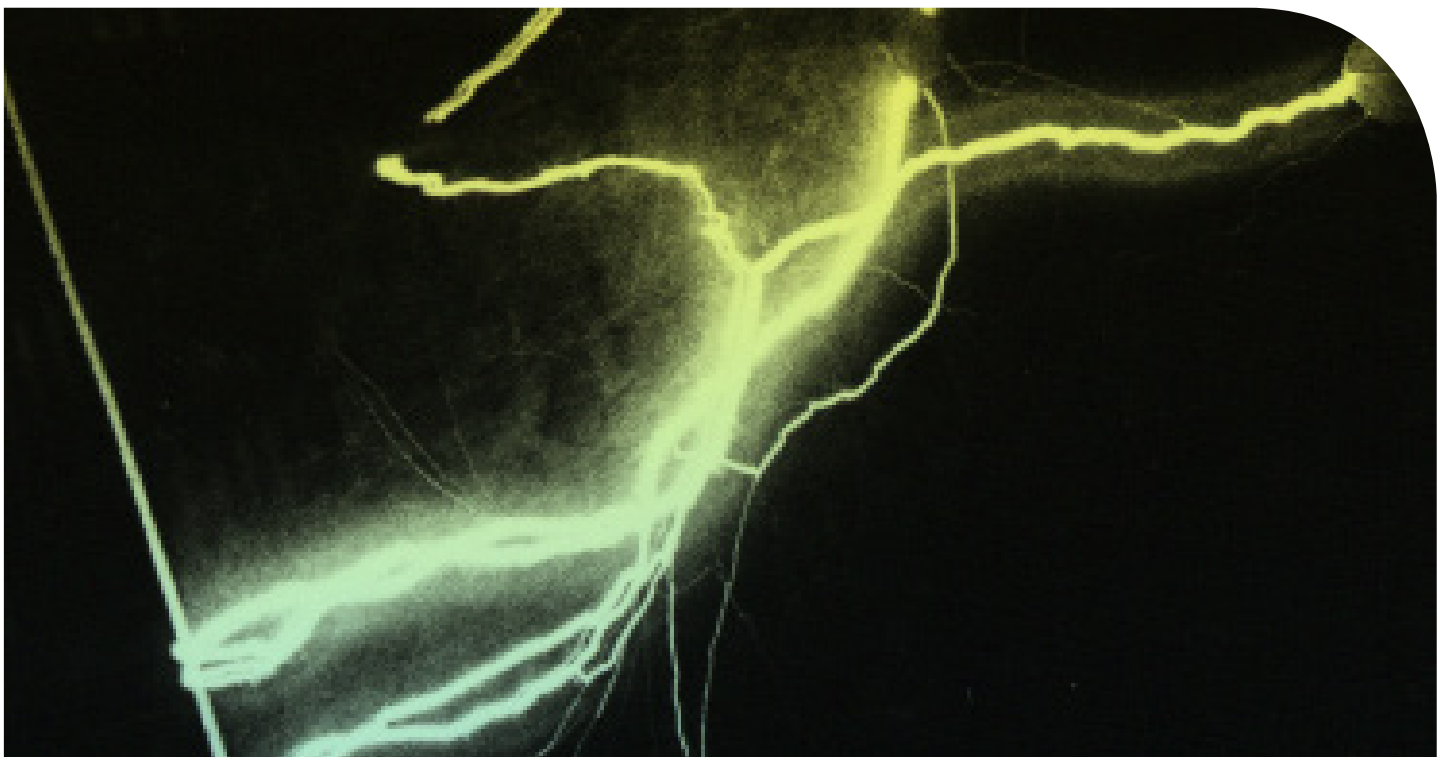


1 High Power Lab

High power testing
of electrical
components and
installations

- ▶ Tests laboratory designed for conducting 1, 2 or 3-phased short-circuit tests; with short-circuit currents up to 50 kA in 1 second
- ▶ Supply voltage up to 3 x 690 V
- ▶ Measurement at very high accuracy in multiple channels
- ▶ Test of large equipment objects up to 4 m x 4 m



Applications

TEST AGAINST STANDARDS:

PowerLabDK facilities are suitable for R&D related tests of electrical power components and systems against a wide range of relevant standards. Including IEC and CENELEC standards.

Testing of High Power components and infrastructure as:

- ▶ Switch boards
- ▶ Breakers
- ▶ Protection relays
- ▶ Cables
- ▶ Measurement Equipment
- ▶ Transformers

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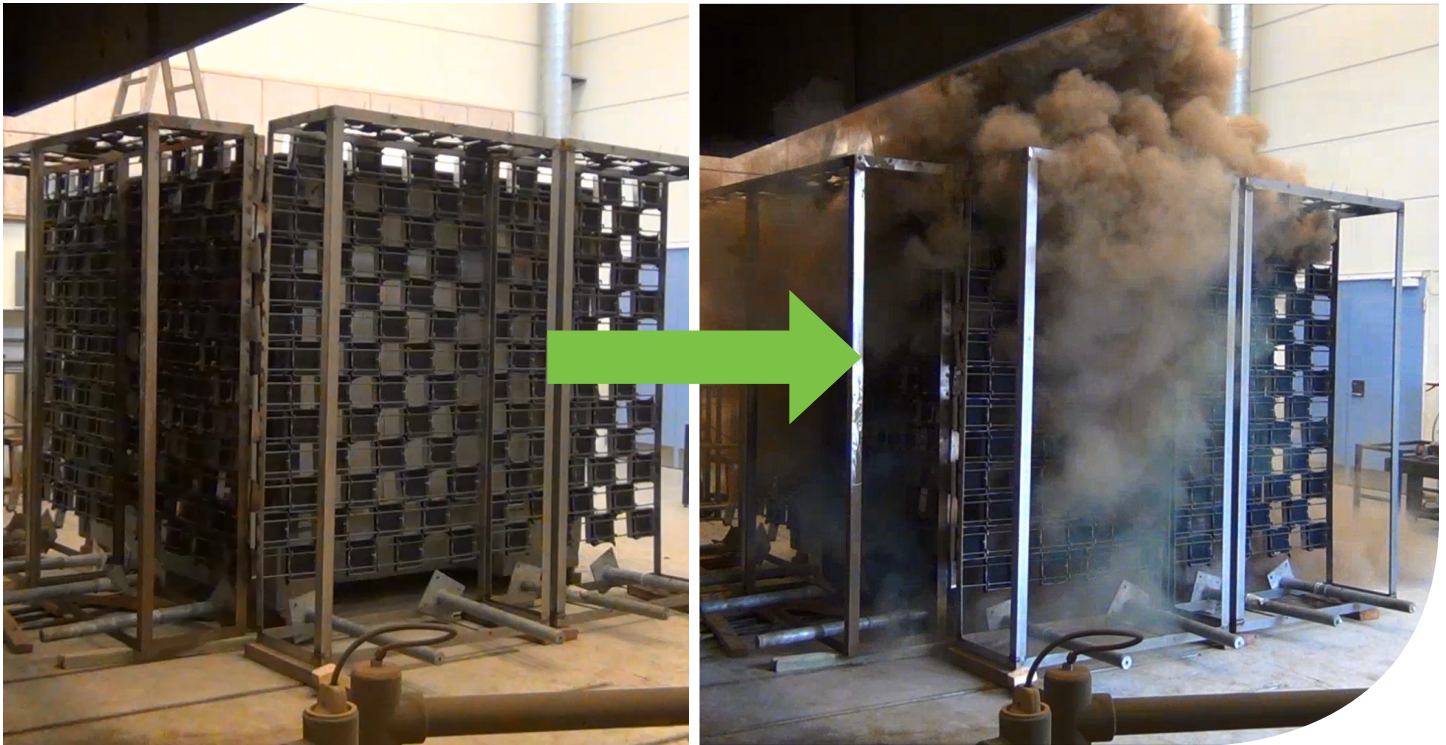
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2 High Power Lab



High power - high accuracy

- ▶ Tests laboratory designed for conducting 1, 2 or 3-phased short-circuit tests; with short-circuit currents up to 50 kA in 1 second.
- ▶ The high-power laboratory at DTU Diplom, Ballerup Campus, is designed for conducting various short-circuit-tests. From a 10 kV main supply, the high-power laboratory is supplied through two parallel transformers, to a short-circuit supply up to 3 X 690 V.
- ▶ Measurements of voltages and currents are possible at very high accuracy and in many channels. The short-circuit currents are obtained by Rogowski coils and digital integrators.

Safe testing environment

- ▶ The high-power laboratory building is specially designed and secured with the purpose to resist the effects and make it secure when completing high current and high power testing.
- ▶ Some specific experiments in the high-power laboratory could be testing switchboards, breakers (protection relays), cables, measurement equipment etc.

Testing of large equipment

- ▶ Equipment up to 4 m x 4 m x 4 m can be brought into to the laboratory for testing. Even larger equipment can be tested if built up inside the laboratory.

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