

SATS

Certification

Scandinavian Association for
Testing of Electric Power Equipment

SATS

A brief presentation



SATS Certification is an association of high power and high voltage test laboratories and end user organizations in Sweden and Norway

SATS Laboratories:

- High Power Laboratory, Ludvika, Sweden
- NEFI, Skien, Norway
- Nexans Norway, Halden, Norway
- SINTEF Energy Research, Trondheim, Norway
- STRI, Ludvika, Sweden

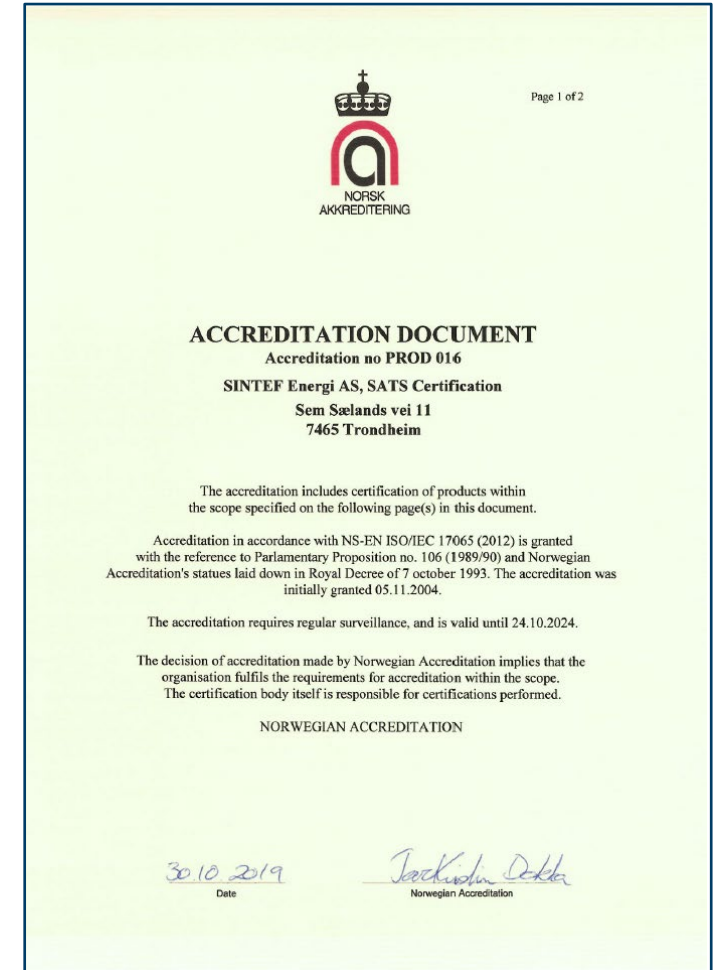


SATS Certification is accredited to ISO/IEC 17065 and issues test reports and certificates

Documents issued by SATS:

- Report of Performance
- STL Type Test Certificate
- Certificate of Type Conformity
- Report of Type Conformity

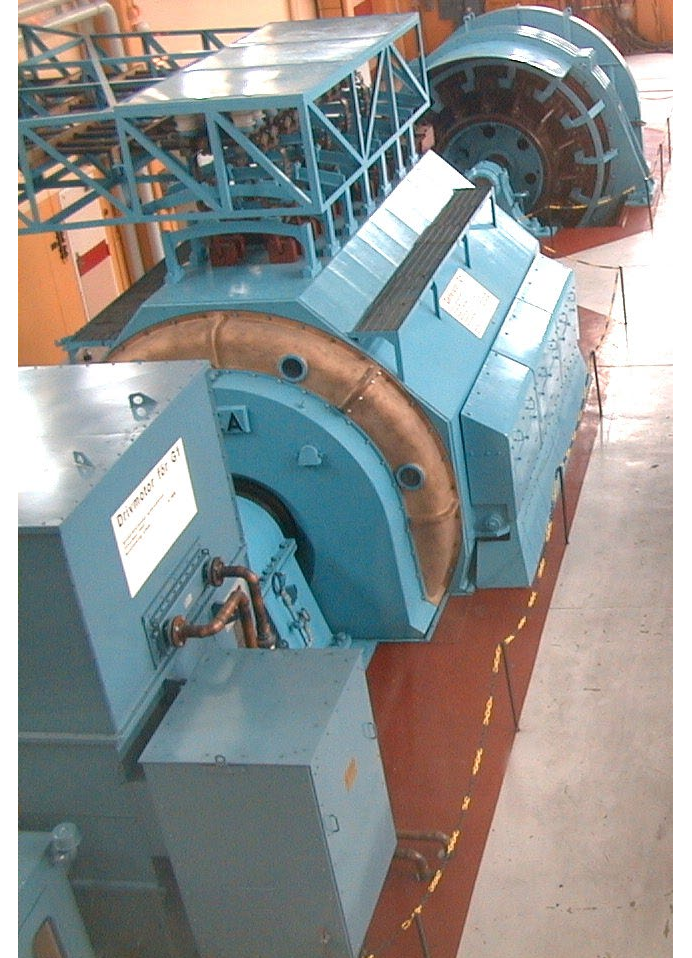
Based on tests carried out according to IEC, IEEE or other standards,
or client's specifications, in accordance with STL Guides, and
witnessed by SATS Inspectors



SATS laboratories test MV and HV switching equipment, cables, instrument transformers, insulators, surge arresters, capacitors and other components

Testing capabilities include:

- Three-phase synthetic testing up to 245 kV and single-phase synthetic test up to 550 kV full-pole
- Direct testing up to 250 kV, 280 kA peak, 16–60 Hz
- Dielectric testing up to 1600 kV, 6.5 A, 50 Hz; 3600 kV lightning impulse, 2100 kV, 10 mA and 1200 kV, 300 mA DC
- Environmental testing outdoor for HV AC and DC components and climate room testing from –55 to +70 °C
- Single- and three-phase arc fault tests, 63 KA / 1 sec; 170 kA peak
- Mechanical testing; e.g., bending, crushing, mechanical endurance, dynamic flexing, corrosion, cantilever tests



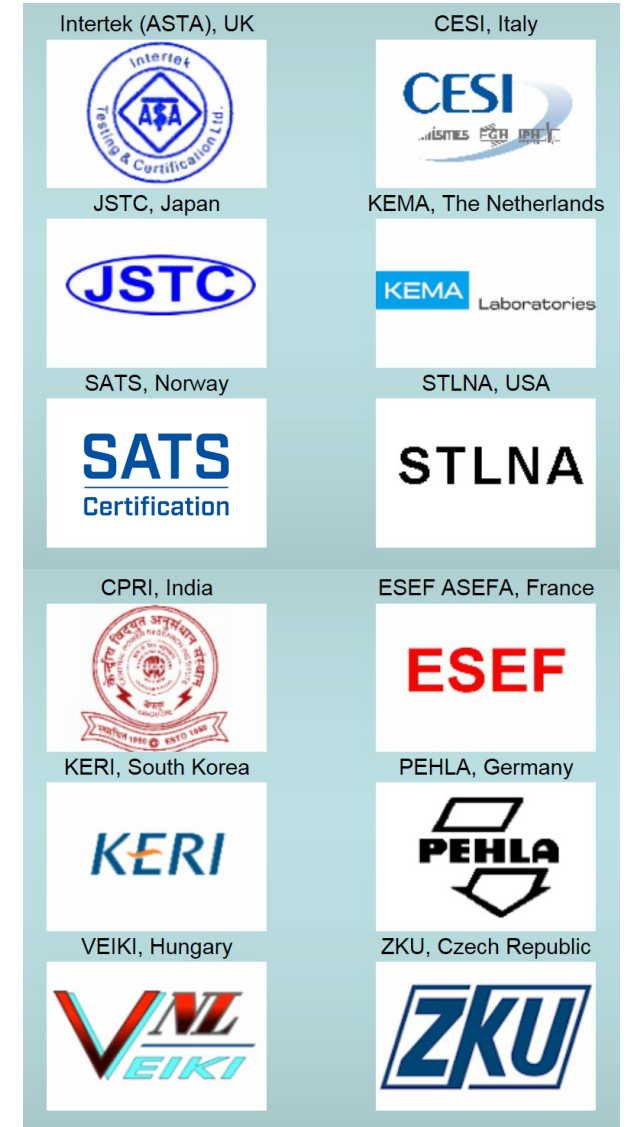
SATS Certification is one of the twelve members of the Short-Circuit Testing Liaison (STL)

STL objectives:

- Uniform interpretation of IEC and regional standards for testing of electrical power equipment
- Uniform presentation of test results and data in test documents and the condition on which test documents can be issued
- Harmonization of measuring techniques and methods

The STL members have agreed to:

- co-operate in the preparation of STL Guides for the IEC standards
- test only in accordance with the agreed interpretation of the standard as given in the STL Guides



www.sats-certification.org

www.stl-liaison.org

