

Testing Facilities and maximum ratings of equipment to be tested

The Laboratory will be supplied by the High Voltage Network at 765 kV and 400 kV and includes the following Testing Facility:

- Facility for short-circuit withstand tests on High Power Transformers up to 765 kV class,
- Facility for short-circuit tests through Synthetic methods on Circuit-breakers with rated voltage up to 550 kV and short-circuit current up to 63 kA,
- Facility for short-time current tests on Switching equipment up to 400 kArms with 1100 kApeak.

Tasks performed:

- Assessment of the Laboratory requirements,
- Laboratory configuration,
- Testing capabilities evaluation for the three Facilities,
- Basic specification of the HV/MV Short-circuit Transformers bank for short-circuit withstand tests on Power Transformer,
- List of the main testing equipment and relevant main ratings of the Facility for short-circuit withstand tests on Power Transformer,
- Budgetary evaluation of the investments related to Facility for short-circuit withstand tests on Power Transformer,
- Synthetic test circuits,
- Three phase synthetic circuits conceptual design and simulations of the most powerful synthetic tests,
- List of the main testing equipment and relevant main ratings of the Facility for short-circuit tests on Circuit-breakers,
- List of the main testing equipment and relevant main ratings of the Facility for short-time current tests on Switching equipment.



