

A comprehensive feasibility study has been carried out in supporting the decision by the Russian Federal Grid company (now Rosseti) on the establishment of a Federal Testing Center able to test High Voltage electrical equipment.

On the basis of the following developed outputs:

- role of testing laboratories in achieving equipment quality improvement and Grid reliability performance,
- new opportunities for domestic manufacturers in connection with the establishment of the Federal Testing Center,
- High Voltage equipment Russian market evolution in the medium term and corresponding testing market for High Voltage equipment,

the study demonstrated that a powerful Testing Center can really determine the improvement of the domestic electromechanical sector and the overcoming of the technological gap which ultimately increase the electrical tariffs and hampers the country economic growth.

A complete Business Plan has been evaluated taking into account capital expenditure, revenues, staff wages, operating costs, profit & loss plan for a Federal Testing Center including the following testing facilities:

- High Power Laboratories including the High Voltage Synthetic, Short Time Current and Power Transformers tests sections,
- High Voltage Laboratory for dielectric tests and tests on Power Transformers,
- Temperature rise Laboratory including Distribution Transformers tests section,
- Environmental Laboratory,
- Seismic Laboratory,
- EMC Laboratory,
- HV cable Pre-qualification test area,
- Chemical and Physical Laboratory.

Finally a Federal Testing project financing has been proposed.

