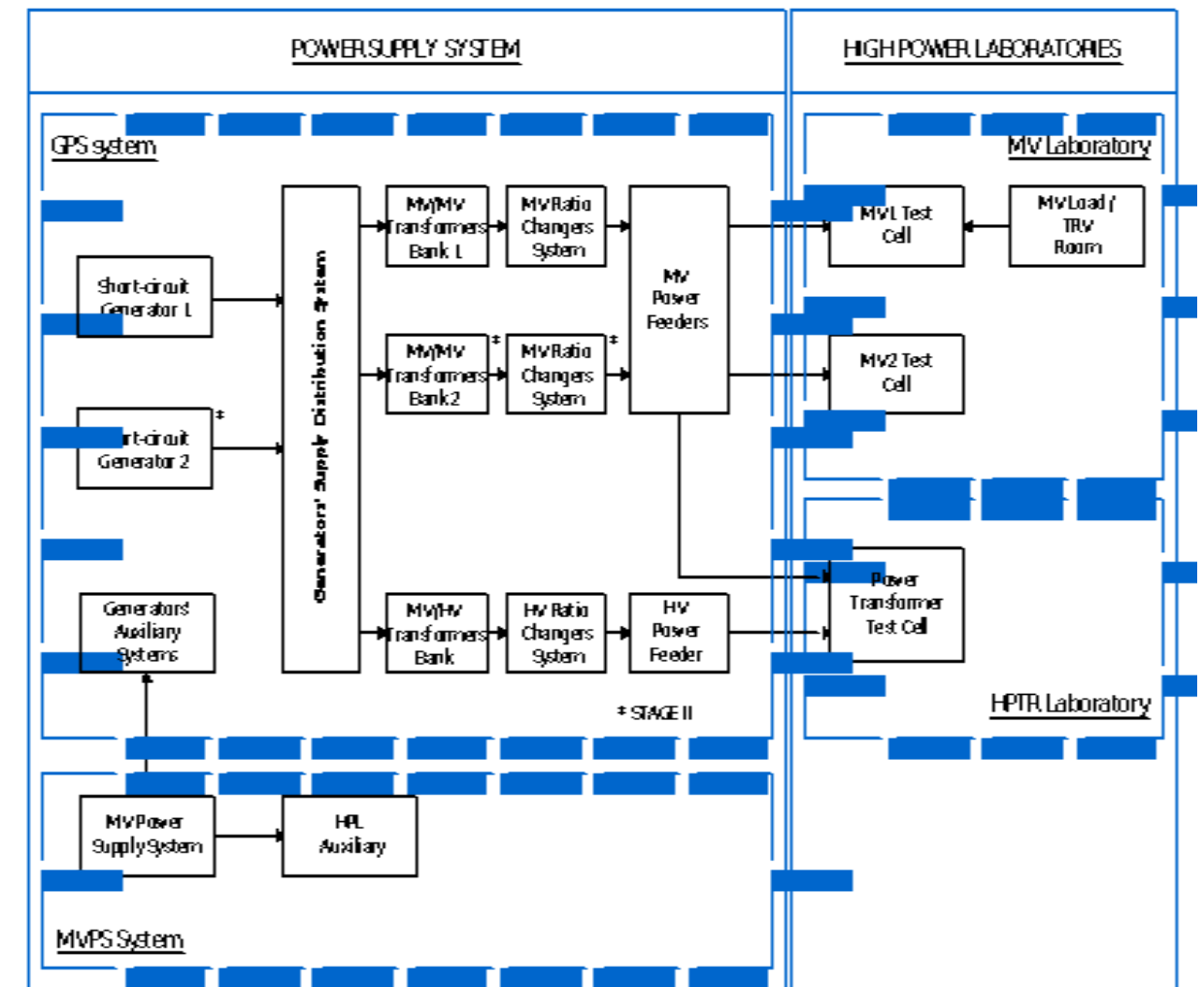


Testing Facilities and maximum ratings of equipment to be tested

- Medium Voltage Power Laboratory for testing:
 - HV Disconnectors and earthing switches with rated voltage from 52 kV up to 420 kV and rated short-circuit current up to 63 kA,
 - MV Circuit-breakers, MV Metal-enclosed switchgear and MV Switches with rated voltage up to 36 kV and rated short-circuit current up to 63 kA,
 - Contactors with rated voltage up to 12 kV and rated current up to 400 A,
 - Current-limiting and Expulsion fuses with rated voltage from 3,6 kV up to 36 kV,
 - Line traps with inductance from 0,1 mH up to 2 mH and rated short-circuit current up to 80 kA,
 - Surge arresters with rated voltage from 9 kV up to 30 kV and rated short-circuit current from 1 kA up to 50 kA.
- Power Transformer Laboratory for short-circuit withstand tests on Power Transformer:
 - with primary windings in the range 11 kV-66 kV and maximum power of 50 MVA,
 - with primary windings in the range 66 kV-235 kV and maximum power of 250 MVA.

Tasks performed:

- Confirmation of testing requirements,
- Evaluation of the testing capability taking into account three different Short-circuit Generators (1500 MVA, 2300 MVA and 2750 MVA); the 2300 MVA short-circuit power resulted the most convenient solution,
- Basic design of the MV/HV Transformers bank feeding the Power Transformer Laboratory and of the MV/MV Transformers bank feeding the MV Power Laboratory,
- Basic design of the test circuit located in an outdoor area for testing HV Disconnectors with rated voltage from 52 kV up to 420 kV and rated short-circuit current up to 63 kA,
- Basic ratings of the Laboratory main testing equipment.



* as CESI subcontractor