

CESI Milan Italy	CESI Synthetic Facility upgrading on Terminal Fault and Out-of-Phase tests on HV Circuit-breakers and Earth Fault tests on HV Fast Earthing Switches	2019
<p>A basic design has been carried out in order to improve CESI Synthetic Facility to perform making operation in:</p> <ul style="list-style-type: none"> ● 1-phase and 3-phases Terminal Fault tests and Out-of-Phase tests on HV circuit-breakers with rated voltage up to 420 kV in compliance with the envisaged review of IEC Standard 62271-100 Edition 2.1 2012-09 & Corrigendum 1 2012-12 and relevant STL Guide, ● Earth Fault tests on HV Fast Earthing Switches with rated voltage up to 420 kV in full compliance with clauses 7.101 and D.2.1 of Annex D of IEC Standard 62271-102. 		
Tasks performed		
<ul style="list-style-type: none"> ● assessment of the synthetic basic test circuits able to face the Standard and STL Guide requirements, ● evaluation of the obtainable test voltage trough simulation on six different test circuits and for the different test duties, ● configuration of the test circuits taking into account the results of the simulations and the already existing testing equipment, ● drafting of the multiline diagram of the involved test circuits, ● definition of the main parameters of the required additional testing equipment. 		

