

Computer-based modeling and experimental optimization of HIGH VOLTAGE SUPPLIES AND GENERATORS



Military University of Technology in Warsaw



Institute of Optoelectronics

FOTON



HIGHER EFFICIENCY



PRECISE OUTPUT PARAMETERS



SUB-NANOSECOND PULSES



LONG TERM STABILITY



HIGH ACCURACY



RELIABILITY OF OPERATION



SMALL OVERALL DIMENSIONS



IMPROVED THERMAL MANAGEMENT



EXTREME EM. ENVIRONMENT RESISTANCE

Laser based application as well as particles accelerators require great flexibility in the choice of power generators to be used.

High voltage supplies and generators, with voltage up to 10 kV, are a requirement of essentially all projects within LA³NET. Work on laser-based particle sources constantly increasing demands made on power supply. Such supplies need to be optimized in many different aspects to ensure that overall experimental output is maximized. Within LA³NET project new HV supplies and generators will be developed.

Computer-based modelling and experimental optimization studies into subject of high voltage supplies and generators at FOTON company will cover the significant area of these network requirements.

Intensive training, research and experimental work in the FOTON laboratory will be finalized by realization of new power supply and generators. Testing of selected devices at partner laboratories under extreme conditions will complete the project.

Realization deadline: June 11th 2015



This project is funded by the European Union under contract PITN-GA-2011-289191

Contact and further details:
M. Sc., Eng. Kamil Nowacki LA³NET ESR-16

FOTON, s. r. o. Tesinská 1361
509 01 Nová Paka
Czech Republic
www.fotons.cz

