

Innovative Solutions Canada Program

Challenge EN578-170003/07 : High Energy Lasers

Attachment 1

Question and Answer #1

This document contains questions and answers related to this challenge.

Question #1:

Do the Canadian Armed Forces and the Department of National Defence want to have a novel laser system? Or a specific component of a laser system, like the power supply, which improves a current laser technology?

Response #1:

The Innovative Solutions Canada challenge referenced here is focused on the laser technology itself, not the supporting equipment. This is due to the fact that any improvements in power generation/storage are nearly application agnostic, and thus not part of “laser technologies” per se.

A novel laser system is the end goal, however, a specific component of a laser system, which improves the current laser technology will be considered as long as it can be shown in the bid to have potential to address current issues such as ‘insufficient efficiencies, low peak and average powers, and excessive SWaP (size, weight and power)’, per the posted Challenge Statement, as well as commercialization, per the Evaluation Criteria. Examples of such systems include, without being limited to, laser diodes, gas, chemical, dye, metal-vapour or solid-state lasers, or wavelength-conversion methods inherent to such lasers. As such, improvements to non-laser specific technologies (electrical power storage or generation) are not considered to be within the scope of the Challenge.