

CASE STUDY: Laser Energy Improvement

INDUSTRY	Laser
PROJECT NAME	Laser energy improvement and correction
PRODUCT TYPE	Feasibility Study
DESCRIPTION	Increase the energy of the deployed laser by examining the applied fiber link's characteristics. The study's objective encompasses the Material study of the fiber to increase the damage threshold, replace the fiber with another material or another fiber, examine the possibility of characteristic changes of the scrambler, replace the scrambler but achieve the required uniformity, possible mechanical changes for improvement and possible component change in the system to achieve improvement.
RESULT	Feasibility study suggested two solutions a)Improvement of the fiber test technique, Mechanical changes to the system (passive anti-degradation approaches) and Control of transmitted/reflected power/energy, and b) involve research on <i>Change of the construction of the fiber for improvement of the damage threshold or Replacement of the fiber.</i>
DURATION	5 months

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