

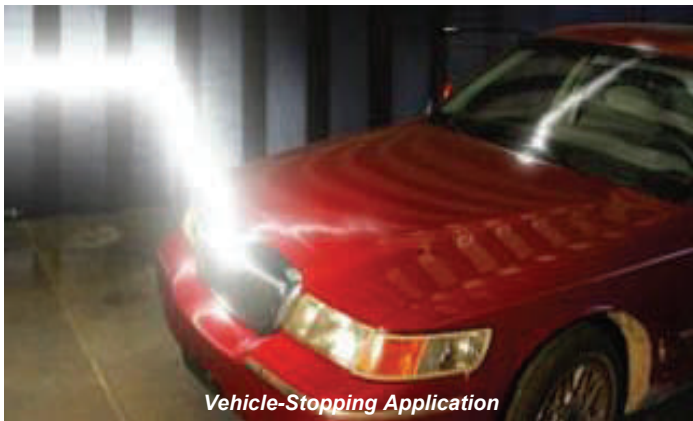


Applied Energetics

About Laser-Guided Energy (LGE™)

Laser Guided Energy (LGE™), Technology pioneered by Applied Energetics, Inc., combines the speed and precision of lasers with the overwhelming punch of high-voltage electricity. This advanced “man-made lightning” is effective against a wide variety of potential targets, and offers selectable and tuneable properties that can help protect non-combatants and combat zone infrastructure.

LGE™ is unique in the field of Directed Energy because the laser is the enabling technology, creating the optical path for the subsequently transmitted electricity. The selectable, near-instantaneous effects are due to high-voltage electricity, at manageable power requirements. The ability to create a path, direct and transmit electricity, and control the effects can be considered a revolutionary concept and capability.



Transformational Aspects of (LGE™)

- Rapid response, speed-of-lightning
- Rapid effects, no dwell-time required
- Tunable effects, from less-than-lethal to lethal
- Efficient effects mechanism, tens-of-joules
- Laser accuracy, reduced collateral damage
- Distance control, reduced collateral damage
- Multi-mission, single platform capability
- High firepower
- Deep magazine

Spin-off Applications & Customers

Spin-off applications from LGE™ have been our Mobile Ultra Short Pulse (USP) Laser Demonstrator (laser-only) and our counter-IED technology (high voltage only). The Mobile Laser Demonstrator is being used by the U.S. Navy to explore the applications and effects of USP Lasers in operational environments. The U.S. Marine Corps is the Lead Service for our counter-IED program and the U.S. Army is the Lead Service for our Laser Guided Energy program. The Army Research Office is sponsoring a Small Business Technology Transfer (STTR) effort using a USP laser to elicit unique spectral signatures of various chemical compounds from standoff distances.

