

Applied Energetics Next-Generation Laser Architecture Delivers Dramatic Beam Quality Improvements and Enhanced Power

*Major Performance Improvements
Unlock New Levels of Power, Precision
and Portability*

TUCSON, AZ, UNITED STATES, October 9, 2026 /EINPresswire.com/ -- [Applied Energetics, Inc.](#) (OTCQB:AERG), a leader in ultrashort-pulse laser and directed energy technologies, today announced major performance improvements to its ultrashort pulse laser capabilities, successfully validating a next-generation architecture that delivers higher power and significantly improved beam quality.



Applied Energetics next-generation laser architecture is advancing longer-range counter-drone capabilities and paving the way for backpackable directed energy systems.

Applied Energetics, Inc. is a [B2i Digital Featured Company](#). See the company's in-depth profile at: <https://b2idigital.com/applied-energetics-0>

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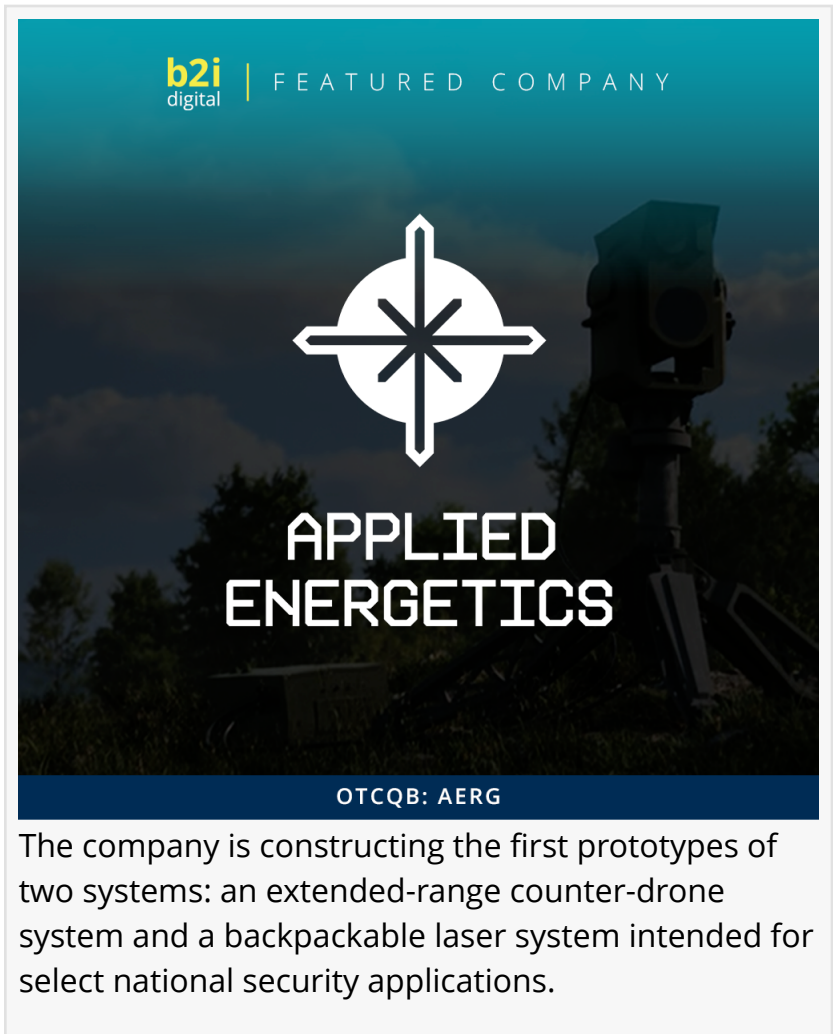
*Chris Donaghey, President
and CEO of Applied Energetics*

This milestone marks a pivotal advancement for Applied Energetics, demonstrating performance improvements that the company believes can dramatically expand the capabilities, versatility and operational potential of its proprietary ultrashort-pulse laser technology for its C-sUAS and C-ISR applications.

By combining increased power with substantially improved beam quality, the new architecture enables more effective delivery of laser energy over greater distances. These advances are expected to materially extend the effective range of systems designed to counter Group 1 and Group 2 drones, addressing one of the most urgent and rapidly evolving challenges facing national security organizations.

In another significant development, the architecture supports the technical viability of backpackable laser systems, creating the potential for powerful, highly mobile directed energy capabilities in applications where portability and rapid deployment are mission critical.

"This is a defining moment in the evolution of our technology," said Chris Donaghey, President and CEO of Applied Energetics. "We have achieved a powerful combination of higher laser output and significantly improved beam quality, two critical factors in extending effective range and expanding operational capabilities. These results validate the strength of our technology platform and reinforce our confidence in its potential to deliver a new generation of directed energy solutions."

The image is a promotional graphic for Applied Energetics. It features a teal-to-blue gradient background. In the top left corner, the 'b2i digital' logo is displayed in white. To its right, the words 'FEATURED COMPANY' are written in a smaller, white, sans-serif font. Centered in the upper half is a white logo consisting of a circle with a stylized eight-pointed star or compass rose inside. Below this logo, the company name 'APPLIED ENERGETICS' is written in large, bold, white, sans-serif capital letters. At the bottom of the graphic, a dark blue horizontal bar contains the text 'OTCQB: AERG' in white. The background of the graphic shows a dark, silhouetted image of a laser system or drone component against a night sky with some foliage in the foreground.

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The company is constructing the first prototypes of two systems: an extended-range counter-drone system and a backpackable laser system intended for select national security applications.

Importantly, Applied Energetics is already translating this breakthrough into tangible progress.

The company is constructing the first prototypes of two systems built around the new architecture: an extended-range counter-drone system designed to address Group 1 and Group 2 threats, and a backpackable laser system intended for select national security applications.

"What makes this achievement especially exciting is that we are moving beyond architectural validation and into the construction of systems designed to demonstrate these capabilities," Donaghey continued. "We believe we are entering one of the most promising phases of our technology development. With two distinct systems advancing simultaneously, we see tremendous potential to expand the applications of our technology and address increasingly critical national security requirements."

The rapidly expanding use of small, low-cost drones has fundamentally changed the threat environment, creating growing demand for effective, adaptable and scalable counter-drone solutions. Applied Energetics is developing its ultrashort-pulse laser technology to address these emerging requirements with capabilities designed for a wide range of operational environments.

With a major technology milestone achieved, significant performance gains demonstrated and two prototype systems now under construction, Applied Energetics is building meaningful momentum toward its next generation of directed energy capabilities. To maximize this momentum, the company remains focused on a structured timeline of continuous testing and iterative validation to fully optimize the power outputs and long-range precision achieved thus far.

The company believes these advancements represent an important step forward in realizing the broader potential of its technology and strengthening its position in the evolving directed energy landscape.

Applied Energetics will be attending the Association of the United States Army (AUSA) Annual Meeting & Exposition at the Walter E Washington Convention Center, Washington, DC. October 12-14, 2026.

About Applied Energetics

Applied Energetics, Inc. is a defense technology company specializing in optical fiber-based ultrashort pulse laser (USPL) weapon systems. Engineered for next-generation Counter-small unmanned aerial systems (C-sUAS) mission sets and layered air defense, the company's high-intensity directed-energy weapons (DEW) are designed to disable or destroy critical ISR sensors on Unmanned Aerial Systems (UAS), AI-driven drone swarms, and autonomous robotic platforms across ground, air, and orbital domains. Backed by a proprietary IP portfolio of 26 patents and 6 pending, the company's inherently scalable architecture delivers orders-of-magnitude reductions in size, weight, power, and cost (SWaP-C) compared to legacy continuous-wave (CW) systems. This dual-use technology directly supports Scaled Directed Energy (SCADE), one of the Department of War's six critical technology areas, and positions Applied Energetics for defense prime integration, joint ventures, and commercialization.

Today, AE's USPL technologies are being designed to offer flexibility, scale, and power, enhancing layered defense strategies to counter emerging threats. As autonomous weapons and robotic warfare increasingly define the battlefield, the ability to defeat sensors within a layered architecture will be critical and it is central to AE's mission to deliver high-reliability solutions against present and emerging autonomous, AI, and robotic threats.

For more information about Applied Energetics and its innovative technologies, please visit www.appliedenergetics.com.

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Forward Looking Statements

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