



Philippines mesodyne lightcell

With more than 10x the energy density of Li-Ion batteries, the LightCell enables people, sensors, autonomous vehicles - virtually any system that requires portable power - to perform their mission beyond what is possible today and extend range, endurance, and ...

Mesodyne is developing a new kind of power generator that con-verts fuel to electricity via light. The company is one of 10 finalist compa-nies with optics, imaging and pho-tonics-enabled ...

Mesodyne's patented LightCell(TM) power generator converts any fuel into electricity via light. The core of the LightCell is a nanophotonic material that is engineered to only emit certain ...

Mesodyne's LightCell generator -- about the size of a loaf of bread and roughly eight pounds -- puts out five-to-10 times the wattage per pound of current tactical batteries, Veronika Stelmakh, CEO and co-founder of Mesodyne, said during an interview at the Fed Supernova conference.

In the LightCell, a small microcombustor heats a photonic crystal to incandescence. This nanophotonic material is engineered to emit certain wavelengths of light preferentially when heated. The emitted light drives photovoltaic cells to generate electricity without moving parts with unprecedented efficiency at this scale - no specialized fuel ...

In Mesodyne's LightCell(TM), a microcombustor heats a nanoengineered photonic crystal material to incandescence, which shines light on the photovoltaic (PV) cell, generating electricity. My co-founder, Dr. Walker Chan, and I developed the technology at MIT's Institute for Soldier Nanotechnologies with the soldier in mind.

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With its remarkably low weight, high energy-density, and virtually no moving parts, the Mesodyne LightCell could be an ideal power solution for prolonged operations by systems in which weight is a critical factor, including autonomous robotic platforms, unmanned aerial systems, and remote monitoring stations, as well as for dismounted ...



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The LightCell increases the endurance of fixed wing UAVs by 10X compared to batteries alone. Increased endurance is particularly useful when the UAV needs fly to a remote inaccessible site, perform its mission, and return. Low vibration ...

Mesodyne's patented LightCell(TM) power generator converts any fuel into electricity via light. The core of the LightCell is a nanophotonic material that is engineered to only emit certain wavelengths of light when heated.

The LightCell increases the endurance of fixed wing UAVs by 10X compared to batteries alone. Increased endurance is particularly useful when the UAV needs fly to a remote inaccessible site, perform its mission, and return. Low vibration from Mesodyne's static conversion process is needed for accurate imaging.

Mesodyne is developing a new kind of power generator that con-verts fuel to electricity via light. The company is one of 10 finalist compa-nies with optics, imaging and pho-tonics-enabled technologies that's working with NextCorps' Luminate NY accelerator as part of its fourth cohort. Each company received an initial investment of \$100,000 and

Developed at MIT's Institute for Soldier Nanotechnologies, incubated at Chain Reaction Innovations at Argonne National Lab, and accelerated by Techstars, Mesodyne's patented LightCell technology enables long endurance, reliable, efficient, silent power for remote unmanned sites and systems, drones and robots, warfighters and emergency ...

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