



Richard Gustafson
CEO & President



PowerLight designs and develops long distance wireless power beaming solutions.

We've successfully concluded a 7 year \$20M DOD technology demonstration and validation program.

PowerLight now executing on 3 new DOD power beaming programs.

We are seeking development partners for aerial power beaming







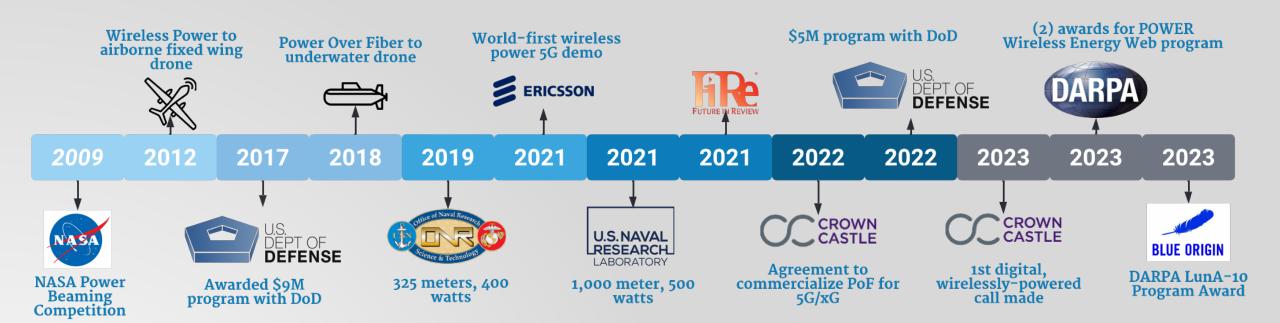








A decade of world's-firsts in laser power beaming











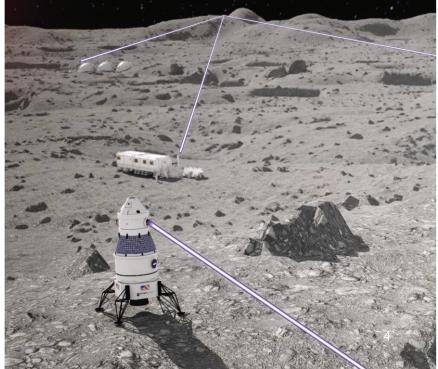


Laser power beaming redefines the possibilities of distributing energy.

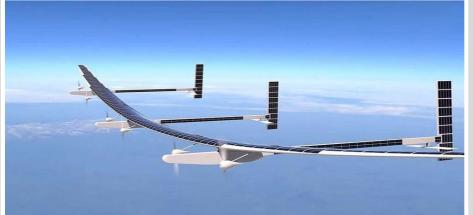
Laser Power Beaming enables:

- Flexibility to place assets where they are needed, regardless of nearest grid-access
- Mobile, on-demand recharging undersea, in the air, on the moon, and in space
- Addressing limits such as emissions, weight, distance, and battery life, as well as resupply and recharge cost & danger













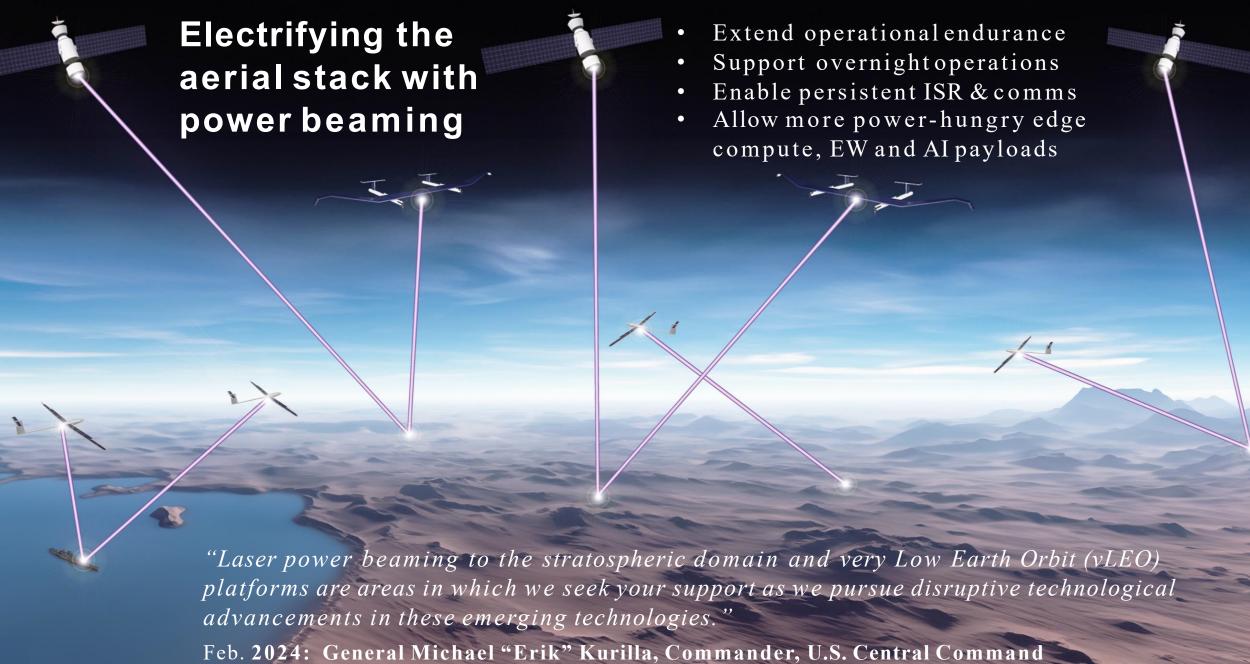


Defense Operational Energy, a new mission frontier

- Dynamic energy needs: DOD needs energy speed, flexibility, and resiliency, for sustaining operations across greater distances on land, air, sea.
- environments: Traditional resupply will be challenged in areas such as the Middle East and Indo-Pacific.

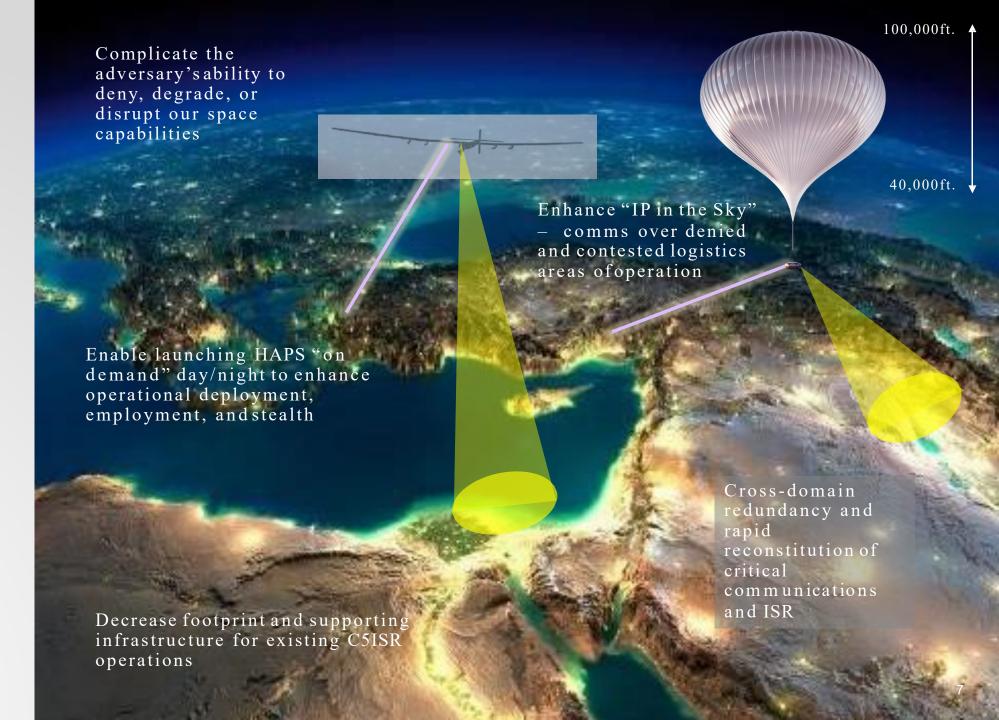
"We desire to employ energy on the battlefield in new and disruptive ways. Wireless power beaming is a capability we want to see exploited to our advantage and represents a fundamental breaking of the chain of fossil fuel dependency."

Feb. 2024: General Michael "Erik" Kurilla, Commander, U.S. Central Command



Wireless power beaming to HAPS

Capture first
mover advantage
and operationalize
the stratosphere to
provide
expeditionary
wireless energy to
persistent, long
endurance C5ISR
assets.





How It Works - Power Beaming

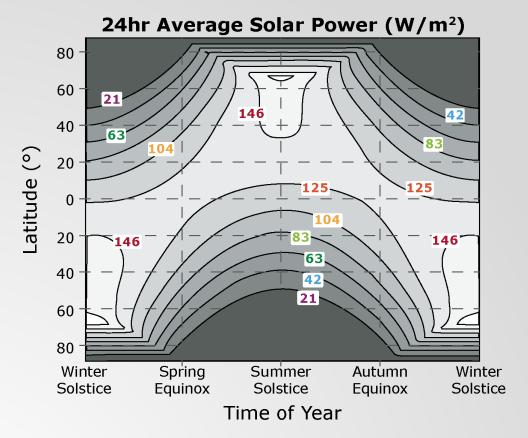
Thermal Thermal **Controls Management PV Array Management Controls** Laser Safety Light Curtain Beam Beam Shaping **Shaping Power Beam Optics Optics** Power **Power** Receiver **Transmitter** Beam is received and focused Laser light is shaped and onto photovoltaic cells for transmitted through the air as conversion back into standard a power beam electrical power Flexible source power including battery, solar, nuclear Safe. Silent. Mobile.



Power In

Powering persistentflight

Laser Power Beaming provides "on demand power at altitude" for persistent station keeping.



Average solar power over 24hrs: 20-150 W/m²
Depends on place & time



Average power from laser power beaming: 1,000-10,000 W/m²
Any place, any time

Up to 500x more power perarea!



PowerLight Technologies

Seek development partners for in-flight aerial recharging for the Defense & Commercial Aerospace drone markets

- Power beaming to 3,000 to 100,000 ft.
- Target 250 to 1,000 watts delivered
- End-to-end safety system by PowerLight
- Portable transmitter with targeting / tracking
- System specs tailored by early partners
- Supported by DOD
- Participation opportunities vary



Located in Kent, WA

New HAPS AllianceMember

Dual-use, defense & commercial solutions

Academic research and intern programs



Thank You.

www.powerlighttech.com

