Voltree Power

Corporate Fact and History Sheet

Company	WHLK, LLC d/b/a Voltree Power
Overview	Voltree Power researches, designs, manufactures and maintains energy harvesting modules, low power radios and other elements of mesh-networked telemetry systems for a variety of customers. Applications range from ultra local, short-latency, microclimate data collection and delivery for wildfire prediction and monitoring to climate research and agricultural sensing to covert security and defense solutions for motion and ionizing radiation early warning systems. Voltree Power prides itself in being green in every aspect of its operation from fundamental technology aspects (tree power) to manufacturing to responsible choice, disposal and recycling of materials.
History	Voltree Power was formed in 2005. The founders of the company were Stella J. Karavas, Chris J. Lagadinos, and Gordon Wadle.
Primary Products	Energy harvesting modules, mesh-networked telemetry systems
Services	Voltree Power is an offshoot of MagCap, a completely self-sufficient design, engineering and manufacturing company that has over 30 years been providing custom solutions to the broadcast, defense, aerospace, microwave, laser and renewable energy industries. Past customers of MagCap include Raytheon, Thales Broadcast & Multimedia, Lockheed-Martin, British Aerospace, Chugach, NASA JPL. Voltree Power enjoys full access and use of its parent company's fully equipped machine shop, metal fabrication shop, potting process equipment as well as welding and electronics assembly areas. All testing of Voltree Power products, both electrical and mechanical, are performed in-house under the same guidelines and procedures as MagCap, an ISO 9001-200 registered company who also provides standard CE/UL approved product lines.
Markets and Customers Served	Voltree Power has finished prototyping and is currently developing the second phase of a groundbreaking wildfire monitoring, prediction and alert system to the specifications of

	the USDA Forest Service and Bureau of Land Management.
Countries	U.S., Greece, Italy
Capabilities	Voltree Power has world-leading expertise in bioenergy harvesting, mesh-networked wildfire prediction, monitoring and alert, weatherization and mechanical design of sensors and transceivers, and continues to perform cutting edge research in bioenergy conversion, ultra-efficient trickle chargers and low-power, long-lifetime wireless telemetry systems.
Total plant size	15,000 sq. ft. state-of-the-art facility.
Manufacturing Capabilities	Because all of our products are custom made, all parts are manufactured in our machine shop and assembled in our plant. Manufacturing takes up three-quarters of the facility.
Engineering	Voltree Power is staffed by experienced design engineers, both electrical and mechanical as well as embedded software programmers and RF experts, and is advised by MIT scientists. We custom engineer all products using sophisticated CAD/CAM programs. AUTOCAD is used for mechanical outline drawings. ORCAD is used for electrical design.
Advantages to customers	Voltree Power is currently the only company that offers a complete solution to microclimate (“under the canopy”) data collection and transmission from remote areas on a vast scale. Coupled with our battery replacement elimination technology, our custom-designed mesh networked nodes can accept any low-power sensor in an easy “plug-and-play” swap and provide solutions beyond wildfire suppression.
Key Executives	Stella J. Karavas, CEO Andreas Mershin, PhD, Science Advisor Chris J. Lagadinos, COO Jay P. Werb, CTO Christopher J. Love, VP Research & Development
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