



Corporate Fact and History Sheet

Company	Voltree Power Inc.
Overview	<p>Voltree Power was the first to harvest metabolic energy from non-animal organisms such as trees and plants and through research sponsored at MIT uncovered the true science behind tree power.</p> <p>Voltree Power is dedicated to the research and development of how to use its patented bioenergy harvesting technology for precision agriculture and natural resource preservation. Voltree also supports Next Generation Science enhancing STEM and STEAM education and STEM talent pipeline through the development of the first tree power kit, CircuiTree that also transforms bio-electrical signals of plants and trees to visual arts and music.</p> <p>Voltree Power researches, designs, manufactures and maintains energy harvesting modules, ultra low-power sensors and other elements of mesh and autonomous single-point deployment networks 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, smart agriculture and early warning systems focused on natural resource preservation. 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.</p>
History	Voltree Power Inc. was formed in 2011. The founders of the company were Stella J. Karavas, Chris J. Lagadinos, and Gordon Wadle. The Company holds two US and international patents with two US patents issued.
Primary Products	Energy harvesting modules, ultra-low powered, mesh and autonomous single-point deployment networks.
Services	Voltree Power management, a completely self-sufficient design, engineering and manufacturing company that has over 30 years of experience in been providing custom solutions to the broadcast, defense, aerospace, microwave, laser and renewable energy industries. Voltree Power has a 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 an ISO 9001-2008 registered company.
Markets and Customers Served	Voltree Power through their Javelin Product Family offers a groundbreaking wildfire monitoring, prediction and alert system to the specifications of the USDA Forest Service and Bureau of Land Management. Voltree is also committed to the preservation of natural resources through innovative sensor technology adding

value to climate science, forest land preservation and early warning systems provided through our innovative cloud-based architecture.

Countries	U.S., Mexico, Greece, Italy
Capabilities	<p>Voltree Power is dedicated to the research and development of how to use its patented bioenergy harvesting technology in ways that not only help to preserve the earth's natural resources but also serve as a possible threat detector.</p> <p>Voltree Power has world-leading expertise in bioenergy harvesting, wildfire prediction, monitoring and alert, weatherization and innovative approach to ultra low-power 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.</p>
Total plant size	10,000 sq. ft. state-of-the-art facility located in the US with sales office in the US and EU.
Manufacturing Capabilities	Because all of our products are custom made, all parts are US manufactured in our machine shop and assembled in our plant. Manufacturing takes up three-quarters of the facility. We are committed to US manufacturing.
Engineering	Voltree Power Inc. 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 included but not limited to AUTOCAD, ORCAD, Inventor and Solidworks.
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. Voltree Power leverages its patented bioenergy harvester as well as other energy harvesting technologies to provide practical, cost-effective and innovative sensing solutions for environmental and natural resource preservation.
Key Executives	Stella J. Karavas, CEO Chris J. Lagadinos, CTO Pamela K. Jonah, COO/CMO Christopher J. Love, Science Advisor
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