

Perpetua at a Glance

Perpetua Power Source Technologies, Inc. was established in late 2005 to develop and market commercial applications for an innovative thermoelectric thin-film technology exclusively licensed from Battelle Memorial Institute – operator of Pacific Northwest National Laboratory (PNNL) for the U.S. Department of Energy. Thermoelectric technology converts heat from a variety of widely available sources (pumps, motors, human body, water pipes, etc.) into useful electric energy for powering small electronic devices.

Perpetua accelerated its technology leadership with an acquisition of Thermo Life Energy Corporation in 2010, bringing with it world-class research and design and a significant patent portfolio.

Perpetua's headquarters are located in Oregon's beautiful Willamette Valley, also home to Oregon State University, and numerous technology companies.

Power Puck Solutions

Power Puck modules – thermoelectric energy solutions for industrial wireless sensors

Power Puck devices convert temperature differences into useful electrical output. Internal electronics store and regulate this energy to deliver a regulated voltage that can seamlessly power a wide variety of industrial wireless sensors, such as Emerson, General Electric, and Honeywell. These ultra long-life, self-charging systems reduce multiple battery replacements over the life of wireless sensor systems, leading to significant cost savings as well as providing an environmentally friendly alternative to disposing of batteries.

Benefits of Thermoelectric Energy Harvesting

- Always available power as long as there is heat available
- Mitigate or eliminate labor costs for battery replacements
- Enable devices to be deployed in areas previous considered too remote or hazardous for traditional wired power or reliance on batteries
- Help protect the environment by keeping batteries out of landfills



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