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GreenBug provides water-to-wire equipment packages featuring the Archimedes Screw technology. Archimedes Screw Generators enable cost-effective generation of power at drops between 1 and 10 meters in height.

After years of consistently improving the design he was able to create a highly efficient machine that was producing increased levels of power. It had become obvious that anyone with a suitable water source could be producing their very own renewable energy. With this idea in mind Paul established Energy Systems & Design in 1980.

In the 1970's Paul Cunningham, owner and operator of Energy Systems & Design, had a need to power his off-grid house. He set off on a mission to create an efficient and reliable microhydro machine. Utilizing a car alternator type microhydro machine and the wheels he cast himself, he created the first machine. Through many hard-working days and design changes he was able to produce very efficient pelton and turgo wheels and sold these wheels to other enthusiasts.

The KCT is a non polluting, revolutionary micro hydro vortex turbine which harnesses the rotational kinetic gravitational energy created by the earth to generate free, abundant hydroelectric energy, other than by currents or tides. There were initially Patents granted in 18 countries, with additional patents now also being sought in over 60 countries.

Our vortex turbine uses the flow not the fall of water, and can operate with a very low head, well under the 3 metre minimum required by conventional turbines to operate efficiently. Furthermore it is a hydro turbine which does not interfere with the flow rate, enabling the system to be used sequentially in a waterway.

For a prepared site it takes 12 hours to assemble one of our transportable hydro vortex turbines, not including optional concrete work. Due to the transportable design of the hydro turbine, it can be transported on the back of a truck and lifted into place easily; enabling access to hard-to-reach sites.

Here at Alternative Power and Machine, Home of APMHYDRO, we set out to bring you a micro hydro-electric generator that could be easily maintained and adjusted. With our units there is no need to disassemble the manifold to change jets or perform regular maintenance. We bring you the finest products in the renewable energy industry. Please feel free to explore our site and learn more about our company and our products. Thanks.

Canyon Hydro provides a broad range of turbine configurations, from bare replacement runners to complete, electronically controlled systems. Here are a few of the options you may consider for your system.



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The turbine and generator must be mounted to a common frame, which is typically anchored in concrete for stable, vibration-free operation. Canyon Hydro can provide a pre-configured frame that will ensure precise alignment of your water turbine, drive system, and generator. When this option is selected, your hydro system will be shipped as modules that you can quickly assemble and align.

The standard manganese bronze alloy runner provides excellent life when used with clean water at heads up to 500 feet. For sites with more abrasive water conditions, we recommend our optional high-tensile, stainless steel alloy runners.

The majority of Canyon standard Pelton turbine systems are equipped with fixed, interchangeable nozzles. Fixed nozzles are the most cost-effective choice for sites with infrequent changes to flow. To change flow, water to the turbine is shut off, and an access plate is removed. The nozzle can then be easily changed. Canyon can provide additional nozzles machined to any size to accommodate flow variations throughout the year.

If flow changes frequently, the optional needle nozzle can simplify adjustments and eliminate the need to shut down the turbine. It permits infinitely variable flow adjustment, from zero to maximum design flow, while the turbine is running. Canyon needle nozzles have stainless steel needles and beaks for extremely long life.

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Web: <https://sumthingtasty.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

