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Mainstream Engineering Awarded a Contract from the Department of Energy for Hybrid Geothermal Heat Pump for Single Residences.

ROCKLEDGE, FL — **September 22nd, 2022** —Mainstream has been awarded a contract from the Department of Energy to develop and commercialize their Hybrid Geothermal Heat Pump (HGHP) for residential applications. Mainstream's HGHP combines both air and ground heat transfer, where the system is split like a traditional residential heat pump with an outdoor condensing unit and an indoor air handler. The HGHP outdoor unit consists of the compressor, an air-cooled heat exchanger, the liquid coupling components (pump, heat exchanger), and the controls for the entire system.

When the ambient air temperature is near the desired indoor temperature, the system automatically transfers heat with the surrounding air and when the temperature extremes of summer and winter increase the difference between indoor and ambient temperatures significantly, the system automatically switches to transferring heat with the ground coupled loop instead of the ambient air, thereby maximizing performance.

About Mainstream Engineering Corporation

www.mainstream-engr.com

Mainstream Engineering Corporation is a 36-year-old Brevard County, Florida manufacturer with a history of leading-edge research and development that has resulted in advanced cost-competitive products, which are made in the USA. Founded in 1986, Mainstream's mission is to transition advanced R&D into high-quality, environmentally-safe, green, commercial products using lean manufacturing techniques. Areas of research include thermal control, energy conversion, power electronics, biomass conversion, chemical technology and materials science.

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