



# Libertine linear power systems

The containerised power system will incorporate linear generators, which combine the efficiency of fuels cells with the durability and power density of conventional generators to produce clean, dispatchable 1 power from renewable fuels. Libertine's intelliGEN platform is the foundation for a battery-like Linear Generator product architecture ...

Libertine Holdings PLC (LSE AIM: LIB), a developer of linear generator technology, has entered into a Strategic Partnership Agreement with BASEBATT Ltd ("BASEBATT"), a developer of battery storage solutions, to create factory-configurable, fuel-flexible containerised hybrid renewable power systems.

Libertine's Linear Power Systems are Advancing Clean Transportation in California May 8, 2023 So, back to work after COP27 Nov 20, 2022 Battery innovation is accelerating, but modularity is the ...

Joins Advanced Propulsion Centre UK on Chinese Technology Mission 7 January 2019: Libertine FPE Limited ("Libertine"), the Smart Engine IP licensing company, has signed a Memorandum of Understanding (MOU) with Chinese automotive company Enovatemotors, with the intent to work together on future "Smart Range Extenders" based on an innovative "Free ...

Linear Power System Cells: Single cylinder combinations of a Linear Electro-Mechanical System and a fuel-flexible Internal Combustion System, providing motion control and power conversion efficiency. Hermetic Linear Motor-Generator Technology: Platform technology for power generation and other applications like Stirling engines, ORC systems ...

Libertine FPE Limited, an innovative leader in linear power systems, selected our Air Bushings for use in their high dynamic test actuators. Originally developed for a customer in the racing industry, the test actuator offers the ability to test responses to input vibrations affecting critical design features such as frame integrity, torque, and fatigue.

The 11-month project focuses on the modification of an existing 2-cylinder opposed free piston Linear Generator, already developed by Libertine and MAHLE Powertrain as part of the UK Government funded Small Business Research Initiative (SBRI) Phase 2 programme, through which Libertine was awarded £2.1m in funding last year.

Libertine's technology leverages a combination of piston geometry, electrical machine design and cylinder construction. All three are relatively long, each being several times the diameter of the ...

The 6,610 sq ft unit located at Sheffield's Vantage Park industrial estate, will progress the research, development and prototyping of linear power generation systems and free piston engines to profit from clean sources of energy worldwide, such as agricultural waste material, biomass and biofuels.



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Libertine Holdings PLC CEO Sam Cockerill tells Proactive the group is pursuing a listing on the AIM market in London to help advance their linear power systems technology. Cockerill says Libertine ...

UK startup Libertine LPE has developed a free piston linear power generator technology that it says overcomes the key challenges faced by earlier free piston engine ...

Libertine is a provider of smart engine technology solutions. It offers linear power systems, test actuator development, linear machines, etc. Type Private Status Active Founded 2009 HQ Sheffield, GB | view all locations Website <https://> Cybersecurity rating. Sectors.

Libertine makes "Linear Power Systems" that enable the development of low cost, high efficiency appliances for small scale power generation, heating, cooling and transport. Libertine's technologies combine linear electrical machines with linear gas expander systems and can be applied in a wide range of small scale energy conversion ...

Libertine's Linear Power Systems have been used to create a flexible piston expander product for lab-based Organic Rankine Cycles and other thermodynamic systems R& D. PRINT CASE STUDY Organic rankine cycle (ORC) heat-to-power systems can improve efficiency and reduce greenhouse gas emissions from power generation and from a wide range of ...

Libertine was formed based on the insight that the future of transport and clean power generation is likely to involve a complex and diverse range of renewable fuels, working together with battery electrification, and that new technology solutions will be required to make clean power from these renewable fuels. ... Custom linear power systems ...

Libertine's intelliGEN platform is the foundation for a battery-like Linear Generator product architecture that combines individual Linear Power System "cells" into modules and packs.

o Libertine receives manufacturing IP license fees for linear e-machines & control platform hardware o Libertine will secure royalties per unit on every Linear Generator product or system that uses Libertine technology End product OEM customers 3 2 1 Linear Power Systems IP Platform manufacturing IP 2 1 Power generator OEM customers ...

In 2021 OMI identified a market need for more efficient, cleaner, fuel flexible power generator products across a wide range of market applications including 2- and 3-wheeler hybrid powertrains and small format electrical power generators. OMI approached Libertine to collaborate on the development of small format Linear Generator products ...

Libertine FPE Ltd used a £500,000 NPIF equity investment to advance its "Linear Power Systems" technology and set up a new headquarters in Sheffield with product development and testing facilities. It was the first investment by NPIF - Enterprise Ventures Equity Finance, part of the Northern Powerhouse



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Investment Fund in the Sheffield City Region. Libertine ... Continue ...

When you subscribe, your information will be used to send you future news about Libertine. We will only send you relevant information. We will never sell your information to any 3rd parties. You can unsubscribe at any time. ... Custom linear power systems; Test actuator development;

The FPGE makes use of Libertine's proprietary "Linear Power Systems" technology which includes linear electrical machines, valves and bearings together with power electronics and motion control. These systems provide class-leading motion control authority and power conversion efficiency for Free Piston power generator applications. Read more

UK startup Libertine LPE has developed a free piston linear power generator technology that it says overcomes the key challenges faced by earlier free piston engine schemes of motion control, emissions and power conversion efficiency. The company, which on 16 Feb won the EUR20,000 (US\$22,800) Climate-KIC cash prize at this year's Cleantech Innovate, will be ...

Libertine - Linear Power Systems. Back to Funded Projects. Free movement - improved efficiency. The novel use of geometry, construction methods and design integration of Libertine's patented linear electrical machine and piston-free expander, permit real-time piston motion control with improved efficiency and low costs.

Libertine's Sam Cockerill and Keith Jackson at the Advanced Clean Transportation Expo, May 2-4 2023  
Libertine's Linear Power Systems are Advancing Clean Transportation in California

"The integrated linear electrical machine, power electronics and control systems that we provide at Libertine will accelerate the commercialisation of free-piston engines, revolutionising distributed power generation, because it delivers more effective control of free piston motion than has been achievable in the past.

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