



Mainspring energy storage South Sudan

What is a mainspring generator?

The core concept behind Mainspring's generator -- capturing the back-and-forth motion of pistons, or oscillators in Mainspring's terminology, to generate energy -- is shared by a wide class of devices, ranging from Stirling engines to linear alternators and motors.

How much money has mainspring raised?

Mainspring has raised \$133 million to date from investors including Microsoft co-founder Bill Gates, Khosla Ventures, utility AEP and the venture arms of oil giant Statoil and energy company Centrica.

What technology does mainspring use?

Mainspring has also tapped advanced power electronics developed for electric vehicles, solar inverters and other digital power conversion and control technologies to "adjust the position of the floating tubes very precisely," she said, "down to the thickness of a piece of paper."

The Mainspring Linear Generator provides data center owners and operators with rapid deployments of clean, reliable, and flexible on-site power. ... Obtaining carbon-free energy every hour, every day is challenging for data center operators who have committed to zero carbon 24x7x365. The dispatchability of the Mainspring Linear Generator and ...

With an inverter-based grid interface and modularity similar to battery energy storage, Mainspring Linear Generators are similar to BESS in their ability to scale from behind the meter to grid-scale power stations as well as their ability to ...

Mainspring Energy, Inc. launches the Mainspring Linear Generator, a new low-cost, fully dispatchable, and fuel-flexible power generation technology for commercial and industrial buildings, utilities, and microgrids. ... This load-following capability also means it pairs well with onsite solar panels or battery storage, dispatching power when ...

The world's newest country, South Sudan, is also the least electrified. A period of growth that began after a 2005 peace deal and continued after independence in 2011, saw billions of dollars in oil revenue and strong international support. This period was for ...

Lineage tapped PowerFlex, a long-time distributed generation commercial solar partner, to install a 3.3-MW rooftop solar array on the warehouse comprising 8,426 individual solar panels (Figure 1).

About Mainspring Energy Mainspring Energy manufactures and delivers an innovative, fuel-flexible onsite power generator, the Mainspring Linear Generator, that rapidly adds new power capacity and accelerates the transition to the reliable, affordable, sustainable electric grid. The Linear Generator is fully dispatchable and



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scalable from 250 kW ...

MENLO PARK, Calif., Sept. 21, 2022 -- Clean power generation provider Mainspring Energy Inc. today announced the final close of its Series E financing at \$290 million. On May 24th this year, simultaneously with announcing a major commercial sales deal, Mainspring disclosed it had completed its first close of the Series E at \$150 million. The ...

Mainspring Energy manufactures and delivers an innovative, fuel-flexible clean power generator that rapidly adds new power capacity and accelerates the transition to the affordable, reliable, zero-carbon electric grid. The award-winning Mainspring Linear Generator delivers on the potential of green hydrogen, ammonia, biogas and other fuels by ...

At Mainspring we believe the fastest path to the net-zero carbon grid is vastly increasing the amount of solar and wind power while building a supporting clean energy system that ensures affordability and multi-day, cross-season resilience. Getting there requires flexible, scalable, local technologies that can adapt to the shifting grid landscape - including the transition from ...

MENLO PARK, Calif., March 9, 2021 /PRNewswire/ -- - NEWS SUMMARY - Mainspring Energy, Inc. launches the Mainspring Linear Generator, a new low-cost, fully dispatchable, and fuel ...

Offices in Juba, South Sudan have had a 50.144kWp solar installation with a 218kwh battery energy storage system commissioned recently. The roof-mounted system works alongside the city grid and a generator to run ...

Energy Project Success & Resources. Mainspring customers are achieving fast deployment of new capacity, cost savings, reduced emissions, increased resilience, and other essential benefits. ... Integrate with solar and storage to maximize power strategy. Clean Transition seamlessly without retrofit from pipeline gas to hydrogen, renewable gas ...

3 ???· UNMISS - United Nations Mission in South Sudan Updated: 2024-12-07T03:39:12Z. PROCUREMENT OFFICER, Juba, South Sudan UNMISS - United Nations Mission in South Sudan Updated: 2024-12-07T03:26:51Z. AMBULANCE DRIVER, Bentiu, South Sudan UNMISS - United Nations Mission in South Sudan

Mainspring Energy 3601 Haven Avenue Menlo Park, CA 94025 mainspringenergy ... New Jersey Board of Public Utilities 44 South Clinton Ave., 1st Floor PO Box 350 Trenton, NJ 08625-0350 RE: IN THE MATTER OF THE NEW JERSEY ENERGY STORAGE INCENTIVE PROGRAM. DOCKET NO. QO22080540. ... By adopting as broad of ...

The linear generator, developed by Mainspring Energy, is a new fuel-flexible power generation technology that converts a variety of clean fuels, including wastewater treatment plant biogas, into clean and reliable



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electricity. NapaSan will be the first-ever wastewater treatment facility to run a linear generator using methane produced in an ...

PG& E is exploring greening those microgrids, trialling battery storage alongside mainspring linear generators that run on different types of gas. It is also, with gravity energy storage startup-turned BESS integrator Energy Vault, building a large-scale system that combines lithium-ion (Li-ion) batteries with a green hydrogen electrolyser.

The Mainspring Linear Generator delivers an unmatched level of flexibility for the transition ahead. It's local so you can site where power is needed, it's dispatchable so you can ramp up and down to complement renewables, and it's fuel-flexible so you can operate on the cleanest fuels available today and in the future.

Mainspring's low emissions profile can enable data centers to build larger facilities and reduce runtime restrictions. This, along with the product's ability to switch dynamically between clean fuels like hydrogen and ammonia, provides ...

Primary energy trade 2016 2021 Imports (TJ) 23 948 19 977 Exports (TJ) 287 598 315 812 Net trade (TJ) 263 650 295 835 Imports (% of supply) 75 60 Exports (% of production) 96 95 Energy self-sufficiency (%) 933 1000 South Sudan COUNTRY INDICATORS AND SDGS TOTAL ENERGY SUPPLY (TES) Total energy supply in 2021 Renewable energy supply in 2021 74% ...

Major advancement for resilient, clean electricity. MENLO PARK, Calif., June 22, 2022 /PRNewswire/ -- In an important breakthrough towards a resilient, zero-carbon electric grid, Mainspring Energy ...

See Mainspring Energy funding rounds, investors, investments, exits and more. Evaluate their financials based on Mainspring Energy's post-money valuation and revenue. ... South Korea. 9/21/2022. 9/21/2022. Shell Ventures. 1. Series E - II. Corporate Venture. Netherlands. 00/00/0000. 00/00/0000. CPP Investments. ... Relectrify specializes in ...

Scatec and Kube are developing more projects in South Sudan and in other emergency zones in the region, as well as in West Africa. Previously, Scatec Solar has signed agreements with an international agency for two hybrid solar plants with a total capacity of 2.25MW at two other locations in South Sudan.

Mainspring's products are fully dispatchable, which means they are able to ramp up and down with the full suite of fast-ramp ancillary services capability. With an inverter-based grid interface and modularity similar to battery energy storage, ...

The global market for clean energy and carbon reduction technologies is anticipated to reach a minimum of \$23 trillion by 2030. Investing directly in the domestic manufacturing sector's small- and medium-sized businesses, which contribute to \$1 trillion in gross revenue and provide more than five million jobs, rapidly builds capacity for clean energy production and maximizes the ...

The announcement follows Lineage's November 2021 deployment of two Mainspring Linear Generators in tandem with 3.3 MW of solar arrays to achieve its first cold-storage facility to produce 100% of ...

The full dispatchability of Mainspring products allows them to easily integrate with onsite solar and energy storage, while following and matching power output with building demand. Linear Generators ramp up when solar is not available and ...

options for delivering efficient and sustainable energy in South Sudan for both short and long terms. 2. An overview of the energy situation 2.1. Oil dependence South Sudan owns the third largest oil reserves in Africa, valued at about 472 million Metric Tones (MT) while the continent's top two oil producers, Nigeria and Angola, have

Driven by its mission to advance global access to low-carbon, dispatchable energy, Mainspring has developed a new category of power generation -- the linear generator -- that delivers onsite, 24/7, fuel-flexible power at lower cost and lower carbon than the electric grid.

Mainspring Energy manufactures and delivers an innovative, fuel-flexible clean power generator that rapidly adds new power capacity and accelerates the transition to the affordable, reliable, zero-carbon electric grid.

China's Shengli Oilfield Keer Engineering and Construction Company (Sokec) has signed an agreement with South Sudan's state-owned Nile Petroleum Corporation (Nilepet) to build modern oil refinery and storage facilities in the country. President of Sokec Wu Song and Managing Director of Nilepet Muhammad Lino Benjamin signed a Memorandum of ...

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