

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 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 ramp down to optimize use of the renewables when they're actively producing.

In 2021, South Korea announced that hydrogen will become the country's largest single energy source by 2050, accounting for 33% of its total energy consumption. ... including in the form of green ammonia, in effect becoming a transportable energy storage opportunity. Ammonia, or NH₃, is used widely in agriculture, with more than 150 million ...

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.

South Sudan has huge energy potential, from conventional to renewable energy resources, from which it can produce electricity (Bilali, 2020; Tiitmamer and Anai, 2018). However, the country remains ...

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



Mainspring energy storage South Sudan

Mission in South Sudan

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 ...

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 ...

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 ...

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 ...

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 ...

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 ...

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 Mainspring Linear Generator, developed by Mainspring Energy, a Silicon Valley-based startup, could be one of the answers to the storage challenge. We are joined by Mainspring CEO Dr. Shannon Miller, a Stanford alumna with a PhD in mechanical engineering.

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 ...



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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 ...

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