

Is Bill Gates backing a new thermal storage startup?

Bill Gates ' Breakthrough Energy Ventures is backing a new thermal storage startup, expanding its investments in long-duration power backup. Fourth Power converts renewable power to heat, storing it for future use.

Where is Gates Energy headquartered?

It moved to the Portland State Business Accelerator before expanding to its current 200,000-square-foot headquarters. The company is backed by Breakthrough Energy Ventures, Gates' clean energy investment firm; SB Energy, a wholly owned subsidiary of SoftBank; and multinational chemical company BASF, among other investors.

Could fourth power save money on long-term energy storage?

Fourth Power's technology could bring down the costs of long-term energy storage. High tension power lines and solar panels at the Dhafra solar power plant near Abu Dhabi, United Arab Emirates. Fourth Power is looking to store energy generated by renewables as heat for hours to days.

Will energy storage be a priority for investors?

A report from Reuters Events, released Dec. 11, said increasing power generation from renewable resources and rising use of electric vehicles will make energy storage a priority for investors in the coming years. The report said storage technology will continue to play a major role in the energy transition as cleaner energy replaces fossil fuels.

How does energy storage work?

The company said its "thermal energy storage technology uses renewable energy to heat carbon blocks to temperatures so hot they glow like the sun," and then later releases that heat "on demand to the grid as electricity."

Why is energy storage important?

Le Scornet, a former global marketing executive for GE Renewable Energy, said, "As you know, energy storage helps mitigate these problems by storing excess electricity produced during periods of high generation and releasing it when demand is high."

Thermal storage startup Antora Energy has raised US\$50 million from a group of investment firms including Bill Gates' Breakthrough Energy Ventures to accelerate the development of its heat-based carbon block energy storage system for heavy industry.

A thermal battery startup backed by Bill Gates' Breakthrough Energy Ventures has launched its first commercial-scale system, a major step toward its goal of weaning heavy ...

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Bill Gates: The 2024 Corporate Climate Pivot. Back to Newsroom & sol; Category Breakthroughs . By Bill Gates -- On October 15, 2024. ... At Breakthrough Energy, we noticed a subtle, but important, perspective shift from both the investors and corporations we engage with. Major global investors--including endowments, sovereign wealth funds, and ...

Fourth Power, backed by Bill Gates" venture firm, has developed high-density thermal energy storage based on thermophotovoltaic cells. The tech, which is reportedly 10 ...

"THE BILL GATES INTERVIEW: An energy miracle is coming, and it's going to change the world". Interview with Drake Baer, February 22, 2016. Energy is actually harder; it takes more time to get a product, but if you do it's a very, very big market and the constraints of doing that in a clean way are more obvious all the time.

Fourth Power, backed by Bill Gates" venture firm, has developed high-density thermal energy storage (TES) based on thermophotovoltaic (TPV) cells. The tech, which is reportedly 10 times cheaper ...

Malta Inc, developer of a grid-scale electro-thermal energy storage technology, has closed a Series B funding round, raising US\$50 million from investors that include Facebook co-founder Dustin Moskovitz. ... Bill Gates" Breakthrough Energy Ventures and industrial materials group Alfa Laval. The Series B was led by Switzerland-headquartered ...

Bill Gates" Breakthrough Energy Ventures is backing a new thermal storage startup, expanding its investments in long-duration power backup.. Fourth Power converts renewable power to heat, storing it for future use. Relying on liquid tin, the thermal battery transfers heat to stacks of carbon blocks at extremely high temperatures, which can later be ...

In theory, hydrogen can play a key role in decarbonizing many sectors of the global economy, especially through seasonal energy storage. To make sure we don't go dark ...

Reliance joins Bill Gates, others to invest \$144 mln in U.S. energy storage August 9, 2021. Perpetua, Ambri Ink Key Antimony Supply Deal To Boost Liquid Metal Battery Tech ... longevity and safety barriers associated with lithium-ion batteries--enabling a critically necessary energy storage solution as increasing amounts of renewable energy ...

A letter from Bill Gates about the state of the clean energy transition in 2023 and why he"s optimistic about the road ahead. Skip to main content ... especially through seasonal energy storage. To make sure we don't go dark when the sun isn't shining or the wind isn't blowing, electricity can be converted into hydrogen, stored for ...

Bill Gates begins building 345-megawatt Sodium nuclear reactor in US. ... Furthermore, the next-generation reactor incorporates an energy storage system, enabling precise control over its ...

A Bill Gates-backed private-public fund is preparing to invest in clean-tech projects worth as much as \$15bn in the US, EU and UK, aiming to subsidise technologies at scale to help countries reach ...

In a groundbreaking move, Bill Gates' Breakthrough Energy Ventures is championing Fourth Power, a thermal storage startup set to revolutionise long-duration power backup. ... The technology, potentially 10 times cheaper than lithium-ion, could redefine energy storage and propel Fourth Power into commercial deployment by the decade's end.

Our innovative molten salt energy storage fills this energy gap, delivering stable electricity supply for the grid when renewables are offline. Other designs do not have this flexibility. Clear Advantage. By moving to a much simpler plant design, the Natrium technology requires far fewer resources to construct and operate. This results in lower ...

(Bloomberg) -- Form Energy Inc., an energy-storage company backed by Bill Gates's Breakthrough Energy Ventures, is planning a \$760 million factory in West Virginia, the latest plant...

In 2015, the company's billionaire co-founder Bill Gates launched his investment firm, Breakthrough Energy Ventures, ... and integrate on-site solar and energy storage. The technology can also ...

ESS Inc manufacturing its energy storage system at its Oregon plant. Image: ESS Inc. ... (ERLG), an initiative led by Bill Gates-founded Breakthrough Energy and Siemens Energy, founded at the 2023 Munich Security Conference to enhance Europe's energy resilience by bringing clean energy tech to scale. LEAG and ESS Inc's project is one of ...

The world needs radical new energy technologies to fight climate change. In 2016, Quartz reported that a group of billionaires--including Bill Gates, Jeff Bezos, Jack Ma, Mukesh Ambani, and ...

Bill Gates is an investor in QuantumScape through both personal funds and his Breakthrough Energy Ventures. Gates has mentioned QuantumScape in a note hoping for carbon-neutral personal ...

Bill Gates' Breakthrough Energy Ventures is backing a new thermal storage startup, expanding its investments in long-duration power backup. ... "Thermal energy storage needs to exist for the promise of a true renewable grid, but it hasn't been fully developed," he said. "We see that as sort of open ground that we can go and make a big ...

TerraPower is partly funded by the US Department of Energy (DOE) and Los Alamos National Laboratory. [6] One of TerraPower's primary investors is Bill Gates (via Cascade Investment). Others include Charles River Ventures and Khosla Ventures, which reportedly invested \$35 million in 2010. TerraPower is led by chief executive officer Chris Levesque.

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(WASHINGTON, D.C.) - Today, Bill Gates and U.S. Department of Energy (DOE) Secretary Jennifer M. Granholm announced a first-of-its-kind collaboration between Breakthrough Energy's Catalyst program and the United States government that will accelerate the adoption of next generation clean technologies. By mobilizing public and private financing ...

William Henry Gates III was born on October 28, 1955, in Seattle, Washington [3] as the only son of William H. Gates Sr. [b] (1925-2020) and his first wife, Mary Maxwell Gates (1929-1994). [4] His ancestry includes English, German, and Irish/Scots-Irish. [5] His father was a prominent lawyer, and his mother served on the board of directors of First Interstate BancSystem and ...

Bill Gates founded Breakthrough Energy Ventures and is its chairman. Image: UK Department for International Development. Thermal storage startup Antora Energy has raised US\$50 million from a group of investment firms including Bill Gates' Breakthrough Energy Ventures to accelerate the development of its heat-based carbon block energy storage system ...

The single largest driver of climate change, industry, accounts for about 1/3 of global carbon emissions. But a Bill Gates-backed startup, Antora Energy Inc., offers a potential solution to eliminate over 50% of industrial emissions with its unique approach to decarbonizing the sector - thermal energy storage via solid carbon blocks.

Bill Gates explains why it's so important to make a better battery. ... I have learned a lot about energy storage by investing in companies that are making batteries better and more affordable. There is some fantastic research going on and some fantastic companies being built, but we need even more innovation. ...

The Breakthrough Energy Ventures investment company backed by Bill Gates is aiming to raise another \$1bn for its third and latest fund to take stakes in companies and technology tackling global ...

Bill Gates speaks with Rodi Guidero, Breakthrough Energy executive director and managing partner at the 2022 Breakthrough Energy Summit. ... carbon removal and storage, ... climate tech summit in ...

Everything we do runs on electricity: buildings, technology, and increasingly transportation. To meet our economic and climate goals, we need more abundant clean energy, not less. The ground we broke in Kemmerer will soon be the bedrock of America's energy future. Today, we took the biggest step yet toward safe, abundant, zero-carbon energy.

Bill Gates is one of the latest to back Aquion Energy, a clean-tech firm that is developing water-based battery systems. He joined the Series D financing round which attracted some \$35 million in collective funding. ... The company focuses on stationary Energy Storage across all applications from Residential, Self - Consumption and Microgrid ...

Now a firm launched by Bill Gates in 2006, TerraPower, in partnership with GE Hitachi Nuclear Energy,

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believes it has found a way to make the infamously unwieldy energy source a great deal nimbler ...

Bill Gates-backed startup Antora Energy is preparing to roll out a containerized, modular heat battery, designed to store renewable energy at the lowest possible cost - then release it ...

Fourth Power, backed by Bill Gates' venture firm, has developed high-density thermal energy storage based on thermophotovoltaic cells. The tech, which is reportedly 10 times cheaper than lithium-ion batteries, is based on the U.S. company's patented liquid metal heat transfer system.

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