



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.



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



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.

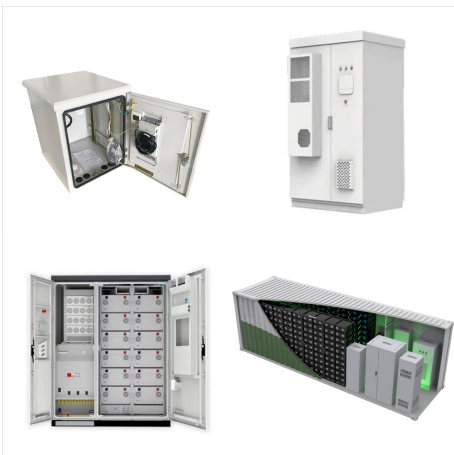
# BILL GATES AND ENERGY STORAGE



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



The program will initially focus on four key areas: direct air capture, green hydrogen, long-duration energy storage, and sustainable aviation fuel. Founded by Bill Gates, Breakthrough Energy is dedicated to helping humanity avoid a climate disaster. Through investment vehicles, philanthropic programs, policy advocacy, and other activities



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

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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



The single largest driver of climate change, industry, accounts for about ??? 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.

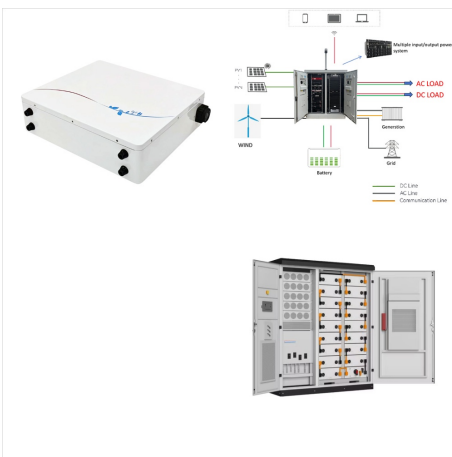


Everything we do runs on electricity: buildings, technology, and increasingly transportation. To meet our economic and climate goals, we need more abundant clean energy, not less. The ground we broke in Kemmerer will ???

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Antora Energy Inc., a startup supported by billionaire Bill Gates's Breakthrough Energy Ventures, has initiated its first commercial-scale thermal battery system in Fresno, California. The company



"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.



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 ???

# BILL GATES AND ENERGY STORAGE



Swiss energy firm Proman led the Series B, joined by previous investors Alfa Laval and Bill Gates-backed Breakthrough Energy Ventures, which led Malta's \$26 million Series A round in 2018.



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 ???



GE Hitachi Nuclear Energy (GEH) and Bill Gates' nuclear innovation startup TerraPower are ready to demonstrate a "cost-competitive" advanced nuclear reactor system that will integrate a 345



# BILL GATES AND ENERGY STORAGE



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.



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.



(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 to build ???

# BILL GATES AND ENERGY STORAGE



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.



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



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

# BILL GATES AND ENERGY STORAGE



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.



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



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



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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