

JH Solar

Energy storage fourthpower



Overview

Without energy storage, renewable energy has to be used when it is generated, making it difficult to cease our reliance on fossil fuels while maintaining a 24/7 energy supply. Often, renewable energy goes unused because generation and demand are not equally matched, so utilities will pay producers.

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To make renewable energy as reliable as fossil fuels, we need large-scale batteries to store and supply electricity to the grid when the sun isn't shining or the wind isn't blowing. But not all batteries are created equal. That's where Fourth Power comes in. Our technology makes renewable energy an.

BOSTON-- (BUSINESS WIRE)-- To meet the growing demand for renewable energy on the grid, Fourth Power has received \$19 million in Series A funding to scale its cost-effective groundbreaking thermal battery technology. The investment round was led by the venture capital firm DCVC, with participation.

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 than lithium-ion batteries, is based on the US company's patented liquid metal heat transfer system.

Fourth Power's energy-storing technology is a winner in Fast Company's 2024 World Changing Ideas Awards. Inside a lab near Boston, big blocks of carbon—each six feet long, two feet tall, and weighing more than a ton—will soon be stacked into a system that will heat them up to a glowing-hot 4,350.

Thermal energy storage developer Fourth Power announced today that it has raised \$19 million in a series A financing round, with proceeds aimed at

scaling the company's utility-scale battery storage technology. Energy storage solutions are emerging as a key energy transition investment area.

The technology is best suited for projects that are around 100 MW and can store energy for a duration of five hours to 100 hours, CEO Arvin Ganesan said. "Thermal Storage Tanks" by NAVFAC is licensed under CC BY 2.0 This audio is auto-generated. Please let us know if you have feedback. What is 4th power?

Fourth Power makes renewable energy an on-demand energy source through utility-scale, thermal battery technology. With the ability to provide flexible-duration energy storage, we can start small and grow with the grid to save consumers money and ensure a clean energy future.

How much money does 4th power get in Series A funding?

Utility-scale energy storage company Fourth Power has secured \$19 million in Series A funding, which will be used to scale up its short- and long-duration thermal energy storage technology, the company announced Tuesday.

What is fourth power's efficiency target?

For power generation alone, Fourth Power's roundtrip efficiency target is 50%. "Our TPV cells have already set a world record at 41% - and we have designs to reach 50%," Henry said. "For co-generation, the efficiency is near 100%."

Can fourth power solve the energy sector's problems?

Fourth Power is looking to solve a couple of problems facing the energy sector, CEO Arvin Ganesan told Utility Dive — the significant amount of cost-effective energy storage that will be needed on the grid over the next 15 years, and the fact that all of those storage resources can't draw from the same supply chain of rare earth materials.

Why should you choose fourth power?

Furthermore, Fourth Power's flexible, modular design means our utility customers can add additional storage to a battery over time at a fraction of the original install cost, making our battery uniquely suited to scale alongside renewable penetration. Our mission is to make renewables as reliable and dispatchable as fossil — and at lower cost.

Why is 4th power a grid-scale battery?

Each subsystem of Fourth Power's thermal battery is separately housed – this allows energy and power to be scaled independently. Grid-scale, long-duration batteries must have flexible discharge rates and reaction times to give grid operators complete control over how and when the stored energy is used.

Energy storage fourthpower



Fourth Power Secures \$19M for Low-Cost Utility-Scale Thermal Energy

To meet the growing demand for renewable energy on the grid, Fourth Power has received \$19 million in Series A funding to scale its cost-effective groundbreaking thermal ...

This New Thermal Battery Could Absolutely Annihilate Lithium

With its state-of-the-art thermal battery technology, Fourth Power, an energy storage startup based in Massachusetts and supported by Bill Gates's Breakthrough Energy ...



Fourth Power secures \$19 million for scaling its thermal energy storage

Thermal battery energy storage Startup, Fourth Power has secured \$19 million in a series A funding round to scale its thermal battery technology.

Thermal Energy Storage Startup Fourth Power ...

Fourth Power, a thermal energy storage startup, has secured \$19 million in Series A funding led

by DCVC, with participation from Breakthrough Energy Ventures and Black Venture Capital Consortium.



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Fourth Power 2025 Company Profile: Valuation, ...

General Information Description Developer of thermal battery storage designed to harness wasted wind and solar production to respond to grid needs with fossil fuels. The company's product provides storage to meet ...



Fourth Power

Fourth Power provides battery storage units that store renewable energy to municipalities and utility companies. Using its proprietary, world-record setting technology, ...

Fourth Power

Fourth Power is pioneering thermal energy storage technology to facilitate the transition to a fully renewable energy grid. Their modular battery systems are designed for both short and long-duration ...

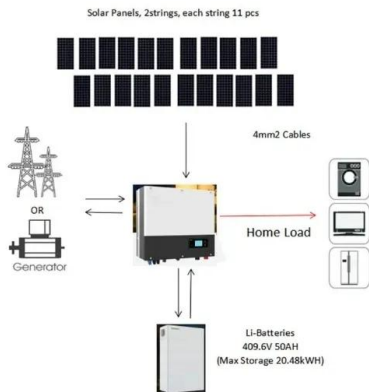


Fourth Power Thermal Energy Storage Battery

Fourth Power, Inc. has developed an innovative thermal battery system designed to bridge the gap between renewable energy generation and demand. This cutting-edge technology is ...

Fourth Power lands \$19 million for prototype facility

Thermal energy storage startup Fourth Power said today it has raised a \$19 million series A led by DCVC and Breakthrough Energy Ventures. The funding will support the ...



Fourth Power

Fourth Power provides battery storage units that store renewable energy to municipalities and utility companies. Using its proprietary, world-record setting technology, Fourth Power can store ...

Fourth Power 2025 Company Profile: Valuation, Funding

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News Archive

Gates-backed Fourth Power pilots thermal storage based on TPV cells Fourth Power raises \$19M for thermal batteries Fourth Power Secures \$19M for Low-Cost Utility-Scale Thermal Energy ...

Thermal Energy Storage Tech Startup Fourth ...

Founded in 2021, Cambridge, Massachusetts-based Fourth Power provides thermal storage technology aimed at enabling renewable energy to serve as a cost effective and reliable source of power ...



Thermal Energy Storage Startup Fourth Power Raises \$19 Million

Fourth Power, a thermal energy storage startup, has secured \$19 million in Series A funding led by DCVC, with participation from Breakthrough Energy Ventures and ...

Fourth Power raises \$19M to scale new thermal battery ...

Utility-scale energy storage company Fourth Power has secured \$19 million in Series A funding, which will be used to scale up its short- and long-duration thermal energy ...

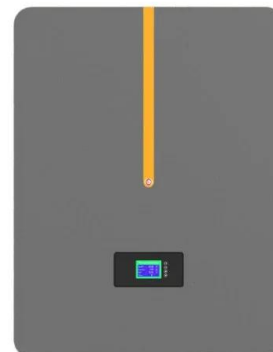


Bill Gates' Breakthrough Energy Backs Boston ...

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

Fourth Power raises \$19M to scale new thermal battery ...

Thermal energy storage is a key enabling technology for decarbonizing both industrial energy use and electric utilities, Blaine Collison, executive director of the Renewable ...



Tin-Powered Energy Storage with Fourth Power -- MCJ

Arvin Ganesan is the CEO of Fourth Power, which is developing a flexible-duration thermal energy system designed to meet the needs of an electrical grid increasingly ...

Fourth Power secures \$19 million for scaling its ...

Thermal battery energy storage Startup, Fourth Power has secured \$19 million in a series A funding round to scale its thermal battery technology.



APPLICATION SCENARIOS



Fourth Power raises \$19M to scale new thermal battery ...

Dive Brief: Utility-scale energy storage company Fourth Power has secured \$19 million in Series A funding, which will be used to scale up its short- and long-duration thermal ...

Fourth Power

About Fourth Power Fourth Power focuses on thermal battery energy storage within the renewable energy sector. Its main offerings include utility-scale storage solutions that enable ...



Fourth Power will send wind and solar energy to ...

Grid energy storage is the indispensable technology if humanity hopes to generate more of its electricity from variable energy sources like solar or wind. Fourth Power, whose Series A round led by ...

Fourth Power Secures \$19M for Low-Cost Utility-Scale Thermal Energy

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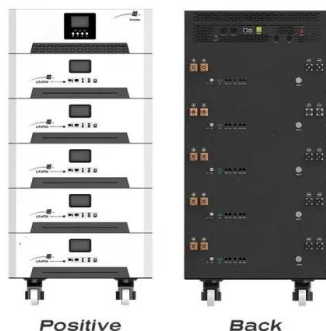


This New Thermal Battery Could Absolutely ...

With its state-of-the-art thermal battery technology, Fourth Power, an energy storage startup based in Massachusetts and supported by Bill Gates's Breakthrough Energy Ventures fund, is poised to transform ...

Storage firm Fourth Power closes Bill Gates-backed financing round

The transaction was led by venture capital firm DCVC and backed by Bill Gates' Breakthrough Energy Ventures (BEV) and Black Venture Capital Consortium. The fresh ...



What Is the Brief History of Fourth Power Company?

The Fourth Power history began with a vision to make renewable energy accessible and affordable. Founded in 2021, the Fourth Power Company, headquartered in ...

Revolutionizing Energy Storage: How Fourth Power is Unlocking ...

Discover how Arvin Ganesan is leading Fourth Power to reshape energy storage with cost-effective, long-duration batteries, navigating complex regulations, and positioning for ...



Fourth Power

The only big roadblock is that wind and solar energy are inherently variable. To meet electrical demand when the sun isn't shining or the wind isn't blowing, we'll need grid ...

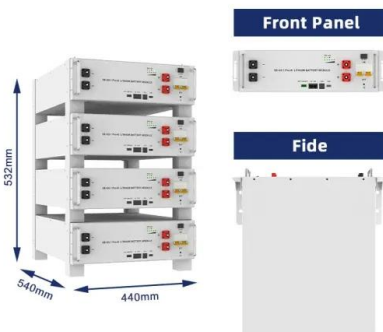
Molten Tin Deployed For Lithium-Free Energy Storage

New lithium-free energy storage system deploys molten tin and thermophotovoltaic technology to generate electricity with no moving parts.



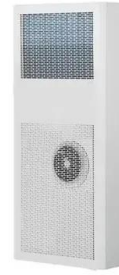
Fourth Power

Fourth Power is a thermal battery energy storage company. Our technology makes renewable energy an on-demand energy source through utility-scale thermal storage. We can harness ...



Our Technology

By adding graphite blocks to increase storage duration, we provide a modular, scalable solution that can meet today's short-duration (5-hour) needs and the long-duration energy storage (500 hour) needs of tomorrow.



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