

## European Solar and Energy Storage Solutions

# Fourth power energy storage Japan



## Overview

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What is 4th power?

That's where Fourth Power comes in. Our technology makes renewable energy an on-demand energy source through utility-scale thermal storage. We can harness today's wasted wind and solar production to respond to grid needs at a cost competitive with fossil fuels.

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.

How long does a fourth power pump last?

Fourth Power's liquid metal pumps — along with the rest of the system — have been designed for 30+ years of life with no corrosion. Fourth Power is a winner in Fast Company's 2024 World Changing Ideas Awards. Grid Scale Energy Storage 30x cheaper than Lithium-ion! Fourth Power is a winner in Fast Company's 2024 World Changing Ideas Awards.

Why should you choose 4th power?

Fourth Power's heater operates at an extremely high temperature - almost half the temperature of the sun - which enables the system to have high power density. Our thermal battery technology was engineered with safety in mind from start to finish. The enclosed system is not pressurized - there is no risk of explosion.

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### Fourth Power will send wind and solar energy to the grid

Fourth Power, whose Series A round led by DCVC was announced today, can store energy at 1 / 10 th the cost of lithium-ion batteries and distribute power directly into a truly renewable, resilient, and affordable electric grid.

### Fourth Power raises \$19M for thermal batteries

Fourth Power is a winner in Fast Company's 2024 World Changing Ideas Awards. Bill Gates' Breakthrough Energy Backs Startup That Uses Liquid Tin to Store Energy; Three breakthroughs that earned Fourth Power its \$19M Series A; Fourth Power raises \$19M to scale new thermal battery technology using liquid tin



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### Thermal Energy Storage Tech Startup Fourth Power Raises \$19 ...

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.



## Top five energy storage projects in Japan

The project is developed by Green Power Development Corporation of Japan. Buy the profile here. 5. Renova-Himeji Battery Energy Storage System. The Renova-Himeji Battery Energy Storage System is a 15,000kW lithium-ion battery energy storage project located in Himeji, Hyogo, Japan. The rated storage capacity of the project is 48,000kWh. The

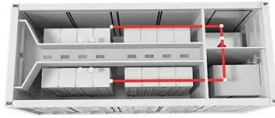
## Fourth Power raises \$19M to scale new thermal battery ...

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



## 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 battery



technology. The investment round was led by the venture capital firm DCVC, with participation from Breakthrough Energy Ventures (BEV) and Black Venture Capital

## Tin-Powered Energy Storage with Fourth Power -- MCJ

The technology aims to address both short-duration energy storage (5-10 hours) and long-duration needs (100 hours or more), with the ability to discharge power within seconds. At the end of last year, Fourth Power raised a Series A led by DCVC, with participation from Breakthrough Energy Ventures.



## Fourth Power will send wind and solar energy to the grid

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## Japan: panel on BESS market growth, opportunities and challenges

Japan is one of the most talked-about emerging grid-scale energy storage markets in Asia, and as such, it featured prominently at the Energy Storage Summit Asia, held in Singapore earlier this month. Andy Colthorpe moderated a panel

discussion, 'Growing the Japanese storage market' on the first day of the event, which was hosted by our



## Home

Fourth Power is among the highest energy density options, enabling us to store electricity at the lowest cost -- less than \$25/kWh-e -- ten times cheaper than lithium-ion batteries. When paired with renewable energy, Fourth Power can serve power that is the same cost or cheaper than the combustion of natural gas.

## Fourth Power Secures \$19M for Low-Cost Utility-Scale ...

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 ...



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## Storage firm Fourth Power closes Bill Gates-backed financing ...

US grid-scale thermal battery storage developer Fourth Power has secured funds to build a prototype system after closing a USD-19-million (EUR 17.6m) fundraising. Latest in Energy storage. EDPR secures 160 MW of energy storage in Polish tender. Dec 19, 2024. Hithium picked to deliver batteries for 222-MW Queensland project.



## 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 Black Venture Capital Consortium. The funding will support the construction of a 1 MWh electric prototype thermal energy storage facility outside Boston, with an expected completion date in ...

## Fourth Power Company Profile 2024: Valuation, Funding

The company's product provides storage to meet needs now and scale with renewable deployment and offers a modular storage system that grows with the grid providing short-duration storage now and long-duration energy storage later as the transition to fully decarbonized infrastructure takes place, enabling clients to give grid operators complete



## Tokyo utilities put home



## battery storage in Japan's power supply ...

Several megawatt-hours of residential battery storage systems, typically paired with solar PV, are being installed in Japan on a monthly basis. This is largely due to concerns about losing power at home, given the seismic activity the country is frequently subject to, as well as extreme weather events like typhoons.

## White-hot thermal grid battery aims to decimate lithium on price

Fourth Power says its ultra-high temperature "sun in a box" energy storage tech is more than 10X cheaper than lithium-ion batteries, and vastly more powerful and efficient than any other thermal



## Fourth Power Named 2024 World Economic Forum Technology ...

Fourth Power will represent the energy industry and is among 100 leading technology start-ups from various sectors joining the 2024 cohort. The Fourth Power Thermal Battery can store intermittent

## 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 storage technology. The latest investment round

was led by the venture capital firm DCVC, with participation from Black Venture Capital Consortium and Bill Gates-backed Breakthrough Energy Ventures (BEV).



### Saudi Arabia to increase renewable energy capacity

The use of clean energy will also be supported by the commissioning of a 250 MW pumped storage power plant (PSP) in the city of Hatta scheduled for 2025. Next to the new pumped storage power plant is the large Mohammed bin Rashid Al Maktoum solar park, which will supply electricity to pump water from the lower reservoir to the upper one

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### 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 Thermal Collaborative, said in an email. For the power sector, it is a means to manage renewables' intermittency -- instead of curtailing peak-

production solar or wind, or facing low ...



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