

European Solar and Energy Storage Solutions

Kraftblock energy storage Montserrat



Overview

What is kraftblock's energy storage system?

Kraftblock's unique nano-technology-based energy storage system allows for heat storage of up to 1,300°C, a game-changer in industries requiring high heat energy. The firm's mission to drive industry decarbonization and transition to renewable energy is pivotal, offering solutions for waste heat recycling and enabling a net-zero heat system.

Is kraftblock a new energy storage startup?

Sulzbach-based Kraftblock, an innovative energy storage startup, successfully secured €20 million in a Series B funding round led by Shell Ventures, the venture capital arm of energy giant Shell, along with participation from five other global investors including Finindus and A&G Energy Transition Tech Fund.

How does kraftblock storage work?

Kraftblock's storage system boasts high thermal conductivity, facilitating efficient heat transfer. Excess heat is automatically channeled into the storage medium, while a cold transfer medium extracts heat when needed. This approach ensures seamless energy management.

What does kraftblock supply?

It supplies hot air, thermal oil, steam or water on any temperature level between 50°C and 1,300°C. Our systems are divided by the source or the use. Discover what fits your business. Industry specific. Energy storage solutions. Learn how you can deploy Kraftblock's Systems.

Is kraftblock a good investment for the industrial sector?

While for A&G Energy Transition Tech Fund, the VC arm of Spanish bank A&G, Kraftblock stands as an early investment with significant potential to drive the industrial sector's decarbonization. Kraftblock's storage system boasts high

thermal conductivity, facilitating efficient heat transfer.

How long can heat be stored in a kraftblock container?

Heat up to 1,300°C is stored in the Kraftblock container for up to two weeks. The discharged energy is used on any temperature level to generate power, decarbonize heating networks or process heat. Our Systems. One storage - plenty of solutions.

Kraftblock energy storage Montserrat

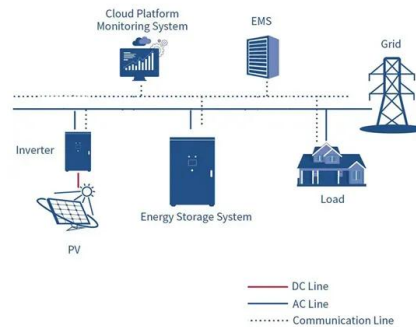
Kraftblock: Renewable Energy Storage System



Kraftblock is a storage system for renewable energy. It works on the principle of storing electricity and heat in a specifically designed storage unit, that can be later used again in the industry. Martin and Susanne's Kraftblock is not just a creative and unique product, but also a very useful tool in the fight of stopping climate change and

Comparison of Technologies to decarbonize Process Heat in ...

Batteries, which have a high payback for grid stabilization tasks, have higher CAPEX costs than thermal energy storage that can use waste products for storage material, as in the case of Kraftblock. Due to degradation and replacement after about ten years, twice as many batteries are needed in a case thermal energy storage can be used and live



CSP plants

Use a high-temperature thermal energy storage in your new CSP plant to store heat up to 1,300°C for later use. Solutions. Overview. Discover our systems. Net-Zero Heat. Heat from the receiver tower is fed into the Kraftblock storage ...



Kraftblock , Green heat for industries

Kraftblock's innovative technology offers unparalleled large-scale, long-duration energy storage, empowering industries to transition towards sustainable thermal processes. It supplies hot air, thermal oil, steam or water on any temperature level between 50°C and 1,300°C.



Kraftblock , Large-scale heat storage

Thermal energy storage. Large-scale, sustainable, and cost-efficient. Kraftblock is a highly efficient heat storage system that can buffer thermal energy at very high temperatures, designed to decarbonize power generation and industrial processes. >>> To the website All over the world, an extraordinary amount of energy is wasted in the form of heat, especially in high ...

Kraftblock

After an intensive research phase, the Kraftblock team led by the head engineer Dr. Martin Schichtel and economist Susanne König, developed a solution for this. Imagine capturing the massive excess energy created by manufacturing plants, solar panels, wind turbines and storing it in a storage based sustainable energy system.



German startup Kraftblock raises EUR20 million Series B

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Sulzbach-based Kraftblock, an innovative energy storage startup, successfully secured EUR20 million in a Series B funding round led by Shell

Ventures, the venture capital arm of energy giant Shell, along with ...

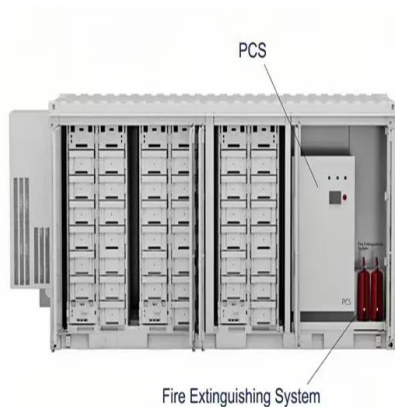


Kraftblock raises EUR20 million for thermal energy storage ...

"Kraftblock is one of our early investments in the fund, as it is a global leader for long-duration thermal energy storage. With this funding round, Kraftblock ensures to have a significant impact in the decarbonization of the industrial sector." Juan Diego Bernal, Managing Director at A&G Energy Transition Tech Fund



- IP65/IP55 OUTDOOR CABINET
- OUTDOOR CABINET WITH AIR CONDITIONER
- OUTDOOR ENERGY STORAGE CABINET
- 19 INCH



Kraftblock secures EUR20M to develop game-changing heat storage ...

Kraftblock's unique nano-technology-based energy storage system allows for heat storage of up to 1,300°C, a game-changer in industries requiring high heat energy. The firm's mission to drive industry decarbonization and transition to renewable energy is pivotal, offering solutions for waste heat recycling and enabling a net-zero heat system.

Contact

You got a question about our thermal energy storage system, for example about the largest high-temperature storage in the world? Let us know. Solutions. Overview. Discover our

systems. We help you answer all your questions about Kraftblock's systems. Send us an email for general inquiries or tell us about your project. Start project



Mobile Heat , Kraftblock

The mobile heat storage by Kraftblock solves this problem and allows for high-temperature heat to be transported on trucks. How it works. 01. Charging heat. Connect your energy with Kraftblock Source. A source of energy, especially waste heat, and a good application, such as district heating or an industrial process, often cannot be

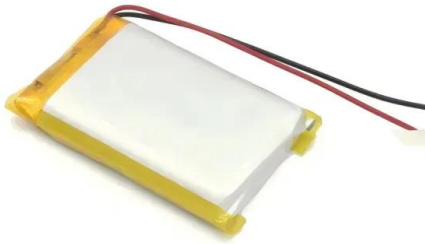
Cooperant , Kraftblock

Temperatures of up to 1000°C will be possible with the new receiver. The new thermal energy storage (TES) is where Kraftblock comes in: A demonstrator will be built at Kraftblock and installed at a CSP plant of partner CIEMAT in Almería, Spain, filled with a new version of the Kraftblock material mixed with a phase-change material.



Mitsubishi Power Europe and Kraftblock partner on sustainable energy ...

DUISBURG (January 27, 2022) - Mitsubishi Power Europe and Kraftblock GmbH have signed a cooperation agreement for the design and implementation of high-temperature energy



storage systems in order to facilitate sustainable energy in power plants and industrial heat applications. Using Mitsubishi Power Europe's leading technology and Kraftblock's thermal energy storage, ...

Kraftblock raises 20 million euro for thermal energy storage ...

Kraftblock, producer of sustainable high-temperature energy storage systems, has raised a total of EUR20 million in a Series B financing round. Six companies under the lead of Shell Ventures have joined the Germany-based scale-up on their mission to decarbonize heavy industries.



Presse & Medien

Kraftblock raises EUR20 million for thermal energy storage technology. Kraftblock hat einen Hochtemperaturspeicher entwickelt, bei dem sich fluktuierender Überschussstrom aus Windkraft- und Photovoltaik-Anlagen kostengünstig für Hochtemperaturprozesse bis zu 1.300 Grad Celsius in der Industrie nutzen lässt. Ein gelungenes Beispiel

Projects & Customers

Recovering and reusing waste heat in the ceramic industry with Kraftblock. Buhck. Waste Heat Utilization. Energy Supplier. Moving Waste Heat over the Streets. Hall-A. Steel Industry. Our expertise on energy storage for you. Hear about

it first on Kraftblock's Newsletter. Checkbox. I agree to receive the newsletter and accept the privacy



Energy Solutions for Glass & Ceramics , Kraftblock

Kraftblock improves energy efficiency in the glass and ceramics industry. There is a lot of untapped potential from waste heat in the glass and ceramics industry. Production currently runs mostly on gas and is affected largely by strong price fluctuations.

Mobile Heat

Kraftblock energy storage systems enable energy to be transported. This allows excess waste heat to be harnessed where it is needed. Technology Applications About Us Career Media Contact Mobile Heat. One challenge of sustainable energy concepts is to transport energy from the source to the user.



Kraftblock: Decarbonizing heat in industries

Kraftblock develops and builds systems to decarbonize heat in industries, district heating and the energy sector. The core technology is a multi-purpose, high-temperature energy storage that stores heat up to 1,300°C (2,400°F) in upcycled material. The systems either recycle waste heat or generate green heat via green

power.

Green energy for the chemical sector , Kraftblock

The chemical and plastics industry has a very high energy demand, which is mostly met by fossil fuels such as oil and gas up until today. Learn how you can use green heat in chemical production with Kraftblock. 01. Concept Draft. We analyze data, draft a project idea with size and operation mode and indicate a price. Our expertise on



Fight Climate Change in your Career

Our goal at Kraftblock is to combat one of humanity's greatest challenges, the climate crisis. We work on stopping climate change and keep the planet livable. Energy storage is at the heart of the energy transition: It is designed to end dependence on fossil fuels and drive the shift to renewable energy worldwide. This is the challenge and

KRAFTBLOCK

KRAFTBLOCK is a universal storage system where both heat and electricity can be stored and extracted. Electricity can be converted into heat (PtH) and back from heat to electricity (HtP). Total efficiency is up to 60% (Electricity -> Electricity) and 92% (Electricity -> Electricity + Heat).



Kraftblock secures EUR20M to develop game-changing ...



Kraftblock's unique nano-technology-based energy storage system allows for heat storage of up to 1,300°C, a game-changer in industries requiring high heat energy. The firm's mission to drive industry ...

Food, Beverages and Pharma , Kraftblock

Decarbonize your energy in food production with Kraftblock. Food and beverage industries, from dairy to beer, face a tricky problem with agricultural emissions. Our expertise on energy storage for you. Hear about it first on Kraftblock's Newsletter. I agree to receive the newsletter and accept the privacy policy.



German startup Kraftblock raises EUR20 million Series B to combat ...

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Net-zero process heat , Kraftblock

Reduce your costs with Kraftblock Source. The Net-Zero Heat System allows you to benefit economically by reducing your costs. Not only is

the CAPEX of the Kraftblock thermal energy storage low in comparison to other storages. Because of the ability to shift energy, the Kraftblock system charges from the grid when prices are low or even negative.



Contact Us

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<https://ssab-proiect.eu>