

Does BASF have a NaS battery?

BASF Stationary Energy Storage GmbH, a wholly owned subsidiary of BASF, and NGK INSULATORS, LTD. (NGK), a Japanese ceramics manufacturer, have released an advanced container-type NaS battery (sodium-sulfur battery) *1.

What is stationary energy storage?

Stationary energy storage by long-duration battery systems is one of the most suitable solutions to ensure reliable power supply at all times. This is where our NaS batteries come into play. We, the team of BASF Stationary Energy Storage, fully support you in finding the appropriate energy solution for your individual use case.

What is a NaS battery container?

A single NaS battery container features 1.45MWh energy. By combining containers, the total energy of the system can be easily scaled up to multiple MWhs. With its capability to discharge for 6-8 hours, NaS batteries are ideally suitable for long duration applications such as time shift or peak shaving, but also for grid upgrade deferral.



We, the team of BASF Stationary Energy Storage, fully support you in finding the appropriate energy solution for your individual use case. We are selling stationary storage batteries based on the proven NaS technology, produced by NGK Insulators Ltd.

BASF STATIONARY ENERGY STORAGE ARUBA



at a glance. We create chemistry for a sustainable future. Our chemistry is used in. almost all industries. 6 Verbundsites. and. 241 other
Designed for stationary energy storage. 5.
5/13/2021 @ BASF New Business GmbH. long duration. high energy / compact. long lifetime. safe & reliable. climate resilient.

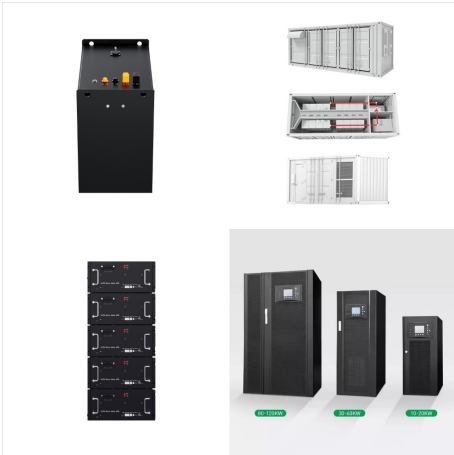


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Microgrids. Minimization of fossil fuel use: Reduce energy costs and CO₂ emissions by combining a generator with an NAS (R) battery. Time of use shift: Excess power, e.g. from solar, is stored by the battery and shifted from daytime to nighttime. Power supply from grid reduced or even eliminated to achieve autonomous power supply.



BASF Stationary Energy Storage GmbH vertreibt stationäre Energiespeicher auf Natrium-Schwefel Basis (NAS (R) Batteries) Steigende Nachfrage nach erneuerbaren Energien Die globale Nachfrage nach Energie steigt stetig an. Gleichzeitig werden aber auch die Forderungen nach verstärktem Klimaschutz und Nachhaltigkeit immer lauter.



The team at BASF Stationary Energy Storage helps you find the right solution: We conduct an initial cost-benefit analysis for your project, deliver the layout of the batteries and provide further advisory support, if needed. Our worldwide presence ensures we can respond to your requests

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Wir, das Team der BASF Stationary Energy Storage, unterst?tzen Sie in allen Bereichen der Entwicklung und Umsetzung passender Energiel?sungen f?r Ihren individuellen Bedarf. Hierzu bieten wir Ihnen station?re Batteriespeicher an, die auf der bew?hrten NAS-Technologie des japanischen Herstellers NGK Insulators Ltd. basieren.



BASF Stationary Energy Storage GmbH, a wholly owned subsidiary of BASF, and NGK INSULATORS, LTD., a Japanese ceramics manufacturer, have released an advanced container-type NAS battery (sodium-sulfur battery) *1. The new product NAS MODEL L24 has been jointly developed by NGK and BASF and is characterised by a significantly lower ???

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About NAS (R) batteries. NAS (R) batteries consists of sodium as the negative electrode and sulfur as the positive one. A beta-alumina ceramic tube functions as electrolyte, which allows only sodium ions to pass through. When discharging, sodium is oxidized and sulfur is reduced to form polysulfide (Na_2S_x). The charging step recovers again metallic sodium and elemental sulfur.



Long life time 20 years / 7,300 cycles. Thanks to its slow degradation, an NAS (R) battery maintains its functionality for up to 20 years or 7,300 equivalent operation cycles (whatever comes first).* * The equivalent operation cycle is only defined by accumulated discharged energy and independent from operating Depth-of-Discharge (DoD).



A stationary energy storage system was erected on the site of BASF Schwarzheide GmbH. Schwarzheide is the first BASF production site worldwide to test a green power supply for individual production parts through the combination of the site's own solar park and a stationary energy storage system.

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BSES is an exclusive global distributor of the sodium-sulfur (NAS) battery technology developed by NGK Insulators, a Japan-based industrial ceramics firm which has developed the technology designed for medium to long-duration energy storage (LDES) and other stationary applications.. Leader Energy, a subsidiary of HNG Capital, noted that it had ???



BASF Stationary Energy Storage (BSES), a subsidiary of German chemical manufacturer BASF, has ordered NAS Batteries from NGK Insulators for a large-scale green hydrogen production project, developed by HH2E, a German green hydrogen producer.. The NAS batteries that have been ordered have a maximum output of 18 megawatts and a capacity of ???



As the name implies, BASF Stationary Energy Storage is the energy storage subsidiary of German chemicals company BASF, which has been working with NGK since 2019 on activities related to commercialisation, distribution and marketing of the sodium-sulfur energy storage devices.

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In 2023, we built a stationary long-term sodium sulfur-based storage system (NAS (R)) at our Schwarzheide site in Germany. It supports the power supply of individual systems via the plant's own solar park. Together with NGK Insulators Ltd., BASF Stationary Energy Storage GmbH makes NAS batteries and develops them further.



"With the NAS MODEL L24 our customers will be able to reduce their initial investment in battery storage system as well as save on long-term project costs, approximately 20% over project lifetime," Frank Prechtel, ???

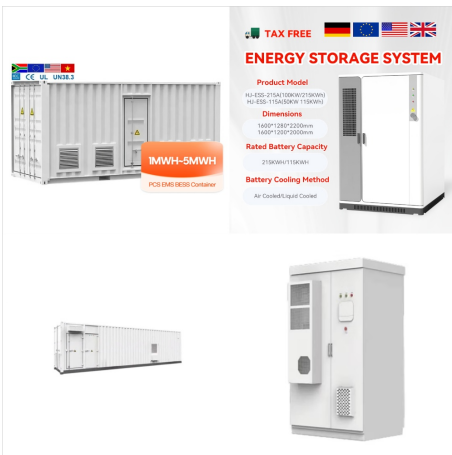


Ludwigshafen, Germany, and Nagoya, Japan, June 10th, 2024 ??? BASF Stationary Energy Storage GmbH, a wholly owned subsidiary of BASF, and NGK INSULATORS, LTD. (NGK), a Japanese ceramics manufacturer, have released an advanced container-type NAS battery (sodium-sulfur battery).

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The company is "always looking for ways to support BASF's growth", the BASF spokesperson told Energy-Storage.news. "One of those is the stationary energy storage market, especially as it supports a broader adoption of renewable energies and thus contributes to one of the key strategic pillars of BASF: sustainability," the