

Why should you choose BASF stationary energy storage?

We at BASF want to contribute to a world that provides a viable future with enhanced quality of life. That is why we drive sustainable solutions along the complete value chain. The team of BASF Stationary Energy Storage supports you in finding the appropriate energy solution for your individual use case.

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 &#174; 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.

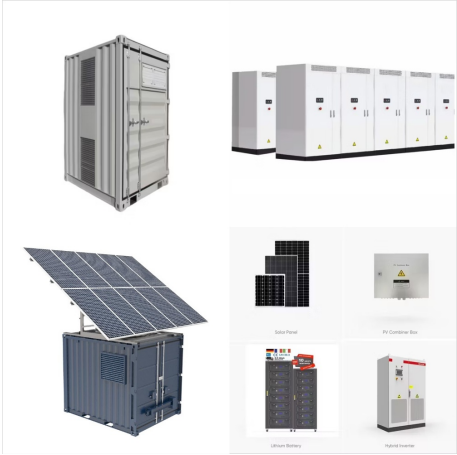
Did BASF conduct a safety audit?

On behalf of BASF, T&#220;V Rheinland conducted a safety audit. Please find the summary here. All materials used in NAS &#174; batteries manufactured by NGK Insulators, Ltd. are abundant on earth. When used in combination with a fast Power Conversion System (PCS), NAS &#174; batteries can respond within milliseconds.



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 KYRGYZSTAN



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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.



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, ???

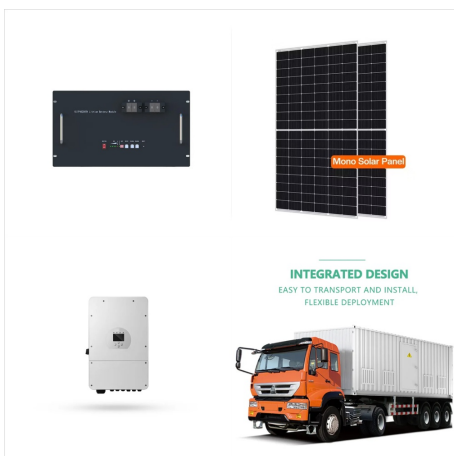
# BASF STATIONARY ENERGY STORAGE KYRGYZSTAN



BASF Digital Solutions GmbH is a wholly-owned group company of BASF SE, whose service portfolio ranges from managing and operating supply chain and logistics, designing and optimizing business processes throughout the value chain to the ???



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

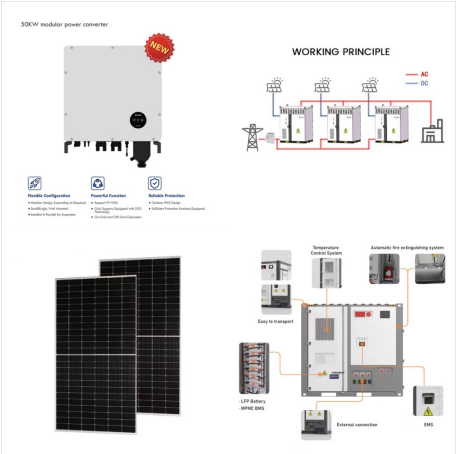


The company is "always looking for ways to support BASF's growth", the BASF spokesperson told Energy-Storage.news. "One of those is the stationary energy storage market, especially as it supports a broader adoption of renewable energies and thus contributes to one of the key strategic pillars of BASF: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

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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).



"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, managing director of BASF Stationary Energy Storage said. Read more Energy-Storage.news coverage of the NAS Battery.

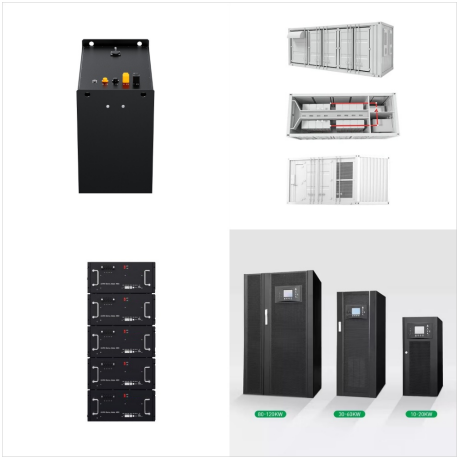




The Winners Are Set to Be Announced for the Energy Storage Awards! Energy Storage Awards, 21 November 2024, Hilton London Bankside. Book Your Table Malaysian manufacturing firm Leader Energy has tied up with BASF Stationary Energy Storage to develop long-duration energy storage projects in southeast Asia using the sodium-sulfur battery



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.



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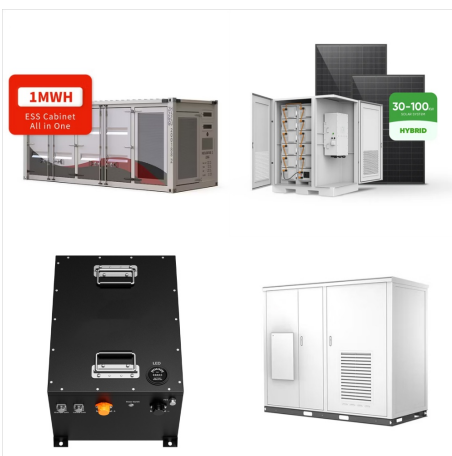
# BASF STATIONARY ENERGY STORAGE KYRGYZSTAN



Microgrids. Minimization of fossil fuel use: Reduce energy costs and CO<sub>2</sub> 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, 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 ???



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.

# BASF STATIONARY ENERGY STORAGE KYRGYZSTAN



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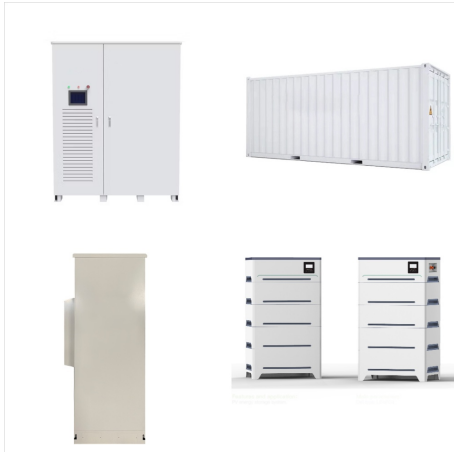


About NAS (R) batteries. NAS (R) batteries consists of sodium as the negative electrode and sulfur as the positive one. A beta-alumina ceramic tube functions as electrolyte, which allows only sodium ions to pass through. When discharging, sodium is oxidized and sulfur is reduced to form polysulfide ( $\text{Na}_2\text{S}_x$ ). The charging step recovers again metallic sodium and elemental sulfur.

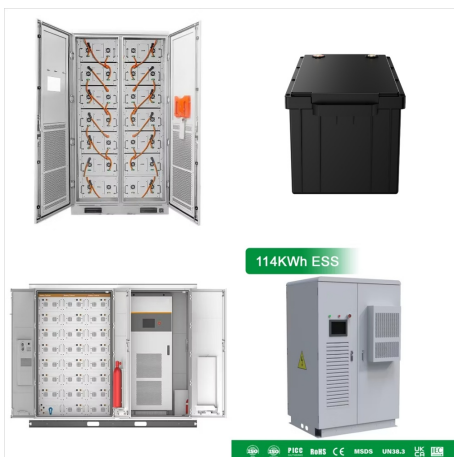


Ludwigshafen, Germany, and Nagoya, Japan, June 10th, 2024 ??? BASF Stationary Energy Storage GmbH, a wholly owned subsidiary of BASF, and NGK INSULATORS, LTD. (NGK), a Japanese ceramics manufacturer, have released an advanced container-type NAS battery (sodium-sulfur battery).

# BASF STATIONARY ENERGY STORAGE KYRGYZSTAN



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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# BASF STATIONARY ENERGY STORAGE KYRGYZSTAN



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.

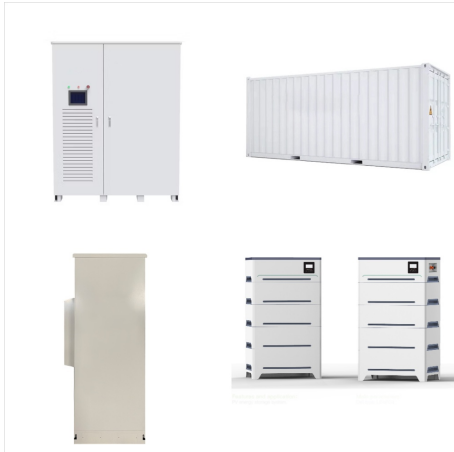


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NAS (R)-Batterien sind seit nunmehr 20 Jahren erfolgreich bei einer Vielzahl von Kunden auf der ganzen Welt im Einsatz.. Mehr als 250 Standorte auf der ganzen Welt wurden mit NAS (R)-Batterien ausgestattet, die verbaute Speicherkapazit?t bel?uft sich auf etwa 5,0 GWh, die Gesamtleistung auf etwa 700 MW.

# BASF STATIONARY ENERGY STORAGE KYRGYZSTAN



in NAS battery storage system compared to the previous battery type ??? Advanced type of NAS battery is an outcome of the joint development by BASF and NGK Ludwigshafen, Germany, and Nagoya, Japan, June 10th, 2024 ??? BASF Stationary Energy Storage GmbH, a wholly owned subsidiary of BASF, and NGK INSULATORS, LTD.