



SolarGrid Energy Solutions

Sodium-sulfur battery energy storage container in Osaka Japan



Overview

The project has been built at the former site of a liquid natural gas (LNG) terminal and features NAS batteries with 11.4MW output and 69.6MWh storage capacity (~6-hour duration at full rated power).

Sodium-sulfur battery energy storage container in Osaka Japan



Japan's Shift from Lithium to Sodium Batteries: A ...

Apr 11, 2025 · By examining the comparative advantages of sodium-ion technology and its implications for global energy security, this paper aims to ...

Sodium-Sulfur (NAS)B

Mar 15, 2021 · Principle of Sodium Sulfur Battery Sodium Sulfur Battery is a high temperature battery which the operational temperature is 300-360 degree Celsius (572- 680 °F) Full ...



Standard NAS presentation as of 06 Nov 2019

Sep 19, 2024 · Sodium-sulfur (NAS®) batteries for stationary energy storage BASF is an exclusive distributor of NAS® Batteries, produced by NGK Insulators, Ltd, Japan, globally ...

NGK starts operating sodium-sulfur battery ...

Jun 2, 2023 · Japan's NGK Insulators has started operating four 250 kW/1.450 MWh sodium sulfur battery containers at a KEPCO testing site in Naju, South ...



Battery: Sodium Sulfur Battery System , United Nations ...

Sodium sulfur batteries produced by NGK Insulators Ltd. offer an established, large-scale energy storage technology with the possibility for installation virtually anywhere. With a wide array of ...

NGK starts operating sodium-sulfur battery ...

Jun 2, 2023 · NGK Insulators has switched on 1 MW/5.8 MWh of NAS batteries under a demonstration project to assess the performance of stationary storage ...



Sodium Sulfur Battery

Sodium-sulfur batteries are rechargeable high temperature battery technologies that utilize metallic sodium and offer attractive solutions for many large scale

electric utility energy storage ...



NGK's NAS sodium sulfur grid-scale batteries in depth

Feb 6, 2017 · Japan-headquartered NGK Insulators is the manufacturer of the NAS sodium sulfur battery, used in grid-scale energy storage systems around the world.



Sodium-Sulphur

Sodium sulfur (NaS) batteries are molten-salt batteries and consist of liquid sodium and liquid sulfur as active materials at the positive and negative electrodes, respectively. From: Energy ...

Mitsubishi Electric Delivers High-capacity Energy-storage ...

Nov 27, 2024 · Large-scale energy storage system at Kyushu Electric Power's Buzen Power Station Battery (double stacked) The facility offers

energy-storage capabilities similar to those ...



Jakarta sodium sulfur battery energy storage container ...

The NAS& #174; battery is available as a single container or as a modular solution with four containers per PCS, arranged in a two-by-two stackable formation. A 20" container delivers ...

Support Customized Product



About NAS Batteries , Products , NGK ...

NAS batteries are rechargeable storage batteries that incorporate anodes (negative electrode) comprised of sodium (Na) and cathodes (positive ...

NAS Batteries , Products , NGK INSULATORS, LTD.

The NAS battery is a megawatt-level energy storage system that uses sodium and sulfur. The NAS battery system boasts an array of superior features, ...



NAS battery maker NGK in Japan VPP, large ...

Oct 3, 2023 · Sodium-sulfur (NAS) battery storage manufacturer NGK Insulators has formed new partnerships in Japan aimed at both the distributed and utility ...



Japan Installs Massive Sodium-Sulfur Wind ...

Apr 14, 2008 · Nagoya-based NGK's sodium-sulfur units, costing about \$2.9 million per megawatt, store electricity for sale when demand is greatest and ...

NAS Battery: 20% lower cost for next-generation ...

Jun 12, 2024 · The new 'advanced' version of the sodium-sulfur (NAS) battery, first commercialised by Japanese industrial ceramics company

NGK more ...



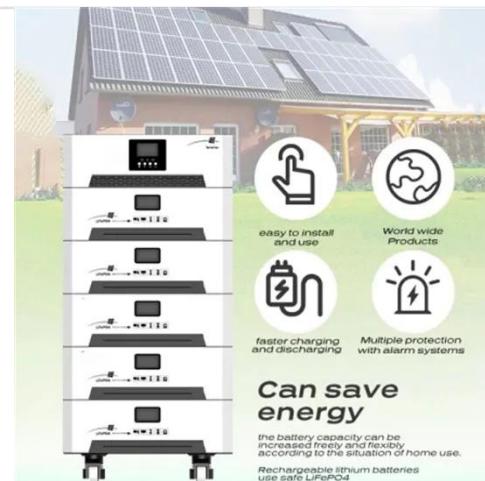
BASF, NGK release advanced type of sodium ...

Jun 10, 2024 · BASF Stationary Energy Storage, a wholly owned subsidiary of BASF, and NGK Insulators (NGK), a Japanese ceramics manufacturer, have

...

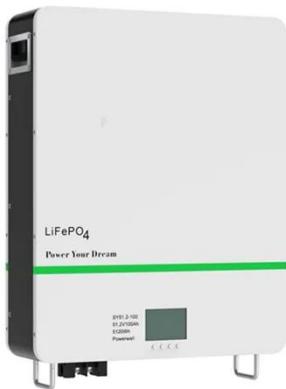
NGK to install sodium-sulfur battery storage at

Sep 13, 2022 · A large-scale sodium-sulfur (NAS) battery energy storage system made by NGK Insulators will be installed at a former LNG terminal in Japan.



NAS® Battery

NAS® Battery The NAS® battery, manufactured by NGK Insulators Ltd. in Japan and distributed globally by BASF Stationary Energy Storage GmbH, is made ...



electrochemical energy Storage

May 25, 2020 · A. Physical principles A Sodium-Sulphur (NaS) battery system is an energy storage system based on electrochemical charge/discharge reactions that occur between a ...



Why Sodium-Sulfur Battery Energy Storage Containers Are ...

May 8, 2022 · Who's Reading This and Why Should They Care? renewable energy developers scratching their heads over how to store solar power for cloudy days. Grid operators sweating ...

BASF Stationary Energy Storage GmbH

BASF Stationary Energy Storage - Our Support for Your Energy Storage Solution With NAS batteries, we contribute to the energy transition by meeting our

customers' need for stable, ...



BASF, NGK release new NaS battery

June 14, 2024: Sodium sulfur batteries, a mostly forgotten chemistry pioneered in the 1980s and 1990s, received a boost with the announcement on June 10 of a new advanced container ...

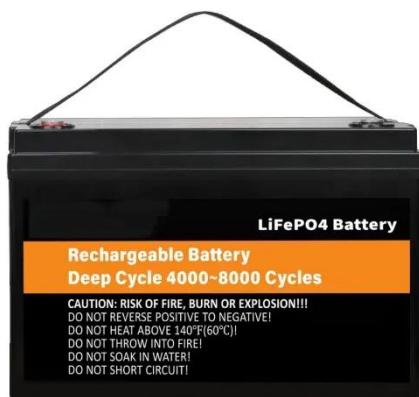
BASF and NGK release advanced type of sodium-sulfur batteries ...

Jun 10, 2024 · Ludwigshafen, Germany, and Nagoya, Japan, June 10th, 2024 - BASF Stationary Energy Storage GmbH, a wholly owned subsidiary of BASF, and NGK INSULATORS, LTD. ...



Australia pilots 1.5 MW sodium sulfur battery

Oct 4, 2024 · The charging step recovers metallic sodium and elemental sulfur. The battery runs at temperatures of around 300 C and both elements are in a



...

NGK sodium-sulfur batteries: Japan project, ...

May 27, 2025 · Japanese manufacturer NGK Insulators' proprietary battery tech features in a large-scale project that has just come online in its home country, ...



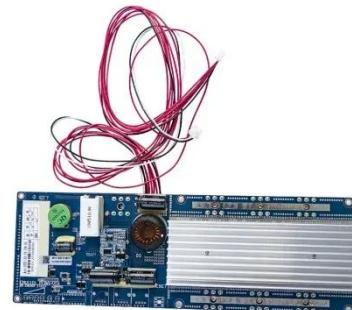
Technology Strategy Assessment

Jul 19, 2023 · About Storage Innovations 2030 This technology strategy assessment on sodium batteries, released as part of the Long-Duration Storage Shot, contains the findings from the ...

Japan Sodium Sulfur (NaS) Battery for Energy Storage ...

Jun 21, 2025 · Leading Japanese conglomerates and energy utilities are increasingly investing in sodium-sulfur battery projects to mitigate grid

fluctuations and improve energy resilience. ...



48V 100Ah

NGK's NAS sodium sulfur grid-scale batteries in ...

Feb 6, 2017 · Japan-headquartered NGK Insulators is the manufacturer of the NAS sodium sulfur battery, used in grid-scale energy storage systems around ...

Japanese utility putting 70MWh NGK NAS ...

Jul 27, 2023 · NGK Insulators will supply a sodium-sulfur (NAS) battery storage system to a project for utility Sala Energy in Japan's Shizuoka Prefecture.



BASF, NGK launch advanced sodium-sulfur ...

Jun 12, 2024 · BASF Stationary Energy Storage GmbH and NGK Insulators (NGK) have recently introduced an advanced container-type NAS (sodium ...



NGK sodium-sulfur batteries: Japan project, ...

May 27, 2025 · NGK Insulators' proprietary battery tech features in a large-scale project that has just come online in Japan, as a pilot begins in the US.



Sodium battery new product release

Jun 12, 2024 · On June 10, BASF announced that its wholly-owned subsidiary BASF Stationary Energy Storage Co., Ltd. (BSES) and Japan's NGK jointly ...

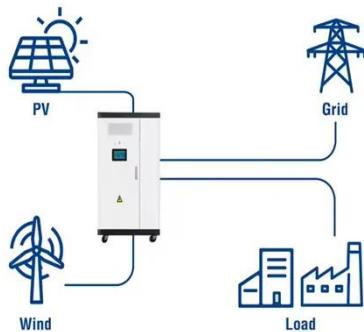
NGK sodium-sulfur batteries: Japan project, Duke Energy pilot

Jul 18, 2025 · NGK Insulators, based in Japan, has been at the forefront of sodium-sulfur battery development since the 1980s. The company has established

several large-scale installations ...



Utility-Scale ESS solutions

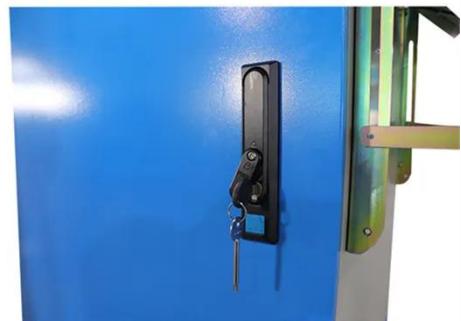


BASF, NGK Offer New NAS Battery With Novel ...

Jun 10, 2024 · BASF Stationary Energy Storage GmbH and NGK INSULATORS, LTD. have released an advanced container-type NAS battery (sodium-sulfur ...

Sodium Sulfur Battery - Zhang's Research Group

Feb 25, 2015 · Although the battery's conceptual origins stem as early as the World War II era as a way to power Germany's V-2 rockets, significant research and development of the sodium ...



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