

## European Solar and Energy Storage Solutions

# Horien salt battery solutions Grenada



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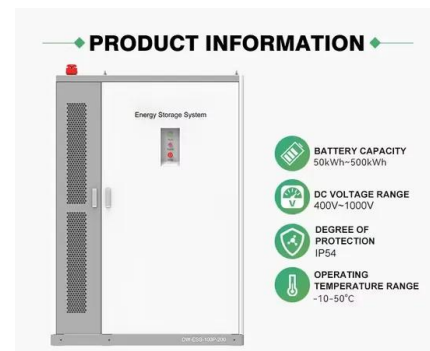


### The fireproof battery

The research collaboration began in 2016 when the Ticino-based salt battery manufacturer HORIEN Salt Battery Solutions, formerly known as FZSoNick, approached Empa. The company wanted to improve the ceramic electrolyte consisting of sodium aluminum oxide, also known as beta-alumina, in its battery cells as part of an Innosuisse project.

### Salt batteries: The fireproof battery

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### Salt batteries: The safe and long-lasting alternative for energy ...

Salt batteries are ideal for applications like emergency power storage in critical infrastructure, such as mobile phone towers. They are long-lasting and maintenance-free, making them a

## Salt Batteries are the Future of

## Safe, Sustainable Energy Storage

Salt batteries use a unique, non-flammable, solid-state design that differentiates them from other energy storage solutions. Unlike lithium-ion batteries, which immerse the cathode and anode in a liquid electrolyte, salt batteries use a ceramic electrolyte of sodium aluminium oxide, often called beta-alumina, that keeps the anode and cathode



## Der Batteriespeicher, der jedem Feuer trotzt

Langlebig und sicher. Die Forschungszusammenarbeit begann 2016, als der Tessiner Salzatteriehersteller HORIEN Salt Battery Solutions - ehemals bekannt als FZSoNick - auf die Empa zuzug. Das Unternehmen wollte im Rahmen eines Innosuisse-Projekts den keramischen Natriumaluminiumoxid-Elektrolyten in ihren Batteriezellen verbessern.

## Emiliano Paolin - Head of Product and Development - HORIEN Salt Battery

Head of product and development ·  
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 Sehen Sie sich das Profil von Emiliano Paolin auf LinkedIn, einer professionellen Community mit mehr als 1 Milliarde Mitgliedern, an.



## The fireproof battery , nano.swiss

Originally developed for electric cars, nowadays



they supply mobile phone antennas with electricity, and tomorrow perhaps entire districts: The salt battery is a safe and long-lasting battery technology with huge potential. Empa researchers are collaborating with an industrial partner to further develop these special batteries.

## Empa

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## Energy storage: meno emissioni con la tecnologia al sodio

Sfide e opportunità. A Intersolar, la fiera internazionale per le energie rinnovabili, HORIEN Salt Battery Solutions ha presentato le sue batterie al sale. Forte di un'esperienza decennale maturata in molteplici settori e di oltre 1 GWh di prodotti installati, l'obiettivo è raddoppiare i volumi nel 2025.

## R& D

HORIEN Salt Battery Solutions promotes R& D activity to improve its product/process and offer the customers a higher level of products and services. R& D is focused on applied research and development to introduce new or

substantially improved products/processes under the environment, safety and efficiency drivers.

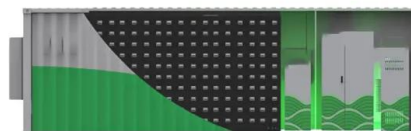


## Daniele Gaia - Materials And Process Engineer - HORIEN Salt Battery

Materials And Process Engineer - HORIEN Salt Battery Solution · Berufserfahrung: HORIEN Salt Battery Solutions · Ausbildung: Scuola universitaria professionale della Svizzera italiana (SUPSI) · Standort: Stabio · 500+ Kontakte auf LinkedIn. Sehen Sie sich das Profil von Daniele Gaia auf LinkedIn, einer professionellen Community mit mehr als 1 Milliarde Mitgliedern, an.

## HORIEN Salt Battery Solutions , LinkedIn

HORIEN Salt Battery Solutions , 2.879 follower su LinkedIn. Enabling Transition , HORIEN Salt Battery Solutions is the world's first player to offer a safe & fully sustainable energy storage & backup solution: from raw material sourcing, zero environmental emissions, absence of toxic materials, to maximum component recyclability. All of this is built in close ...



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