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Signal Finder

By Ventecon Technologies GmbH

Product: **Product**
Time Period: **2022-08-19 - 2022-08-26**
Region: **EU**
Topics: **7**
Documents: **18**

This week's main updates:

The tense situation on the energy market is leading to increasing interest in electricity storage technologies, whether for applications in the field of charging infrastructure, emergency power systems or general relief of the electricity grid.

In addition to software-based solutions, application areas for second-life battery usage are also increasingly being developed. For example, Mercedes-Benz and Kia are working with partners such as Deutsche Bahn to test buffer storage solutions.

Dynamic load management is important for the mobility revolution, which is why more and more companies such as SAP E-Mobility or Charge Construct are offering dynamic load management solutions. In addition, more and more companies are working on projects and solutions to relieve the power grid from high demand.

Overview of Signal Finder configuration

Overall Summary of the Signal Mail, including the main events in the time period.

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Prepared Topic Title

UK continues to drive use of new battery technologies to reduce dependence on gas and increase grid stability

The UK's dependence on gas, which constituted 40% of its power last year, makes it particularly vulnerable and exposes the need for alternative sources of energy to the fossil fuel. London-listed company **Invinity Energy Systems Plc** has paired one of its **vanadium flow batteries** with a **lithium-ion battery**. The batteries are there to support the grid -- **feeding energy back into the system** at times of low supply and high demand. The flow battery, which can **last for decades**, will be used more heavily by **Electricite de France SA's Pivot Power unit**, which offers the **charging service** to passing vehicles. As part of a review into the electricity system, the **UK government** is considering how else to **encourage the energy storage sector** and ultimately shift the UK away from gas and toward a greater reliance on green technologies.

Another area of application are data centers. Most data centers today operate with **uninterruptible power supplies (UPS)** that have **lead-acid or lithium batteries**. U.S. market research firm **Arizton** puts the 2021 global market for Uninterruptible Power Supply (UPS) at \$5.6 billion. It forecasts annual growth of 6.11 percent through 2027 and a volume of \$8.02 billion in 2027. Now **Zincfive** is looking to enter the data center market for **NiZn batteries**. The batteries **don't need temperature control**, are **less charge sensitive** and **don't need structural accident protection** because they **won't explode or burn**. In addition, they weigh 55 to 60 percent less, have 110 to 197 percent **greater power density per weight** and 81 to 194 percent **greater power density per area**.

Related sources:

[Britain Bets on Futuristic Batteries to Cut Dependence on Gas:](#) To hedge against future energy market tensions, the UK is investigating and promoting new technologies for long-term energy storage, including lithium-ion technology, pumped storage, liquid air, and new battery storage systems for electric vehicles.
2022-08-28 | en | financialpost.com

[NiZn batteries for UPS power in the data center:](#) Most data centers today operate with uninterruptible power supplies (UPS) that have lead-acid or lithium batteries, but lighter, stronger and more environmentally friendly alternatives are now emerging with nickel-zinc technology.
2022-08-29 | de | datacenter-insider.de

[The UK is betting on the batteries of the future to reduce gas dependence:](#) Connecting charging stations to the grid is expensive, so it makes sense to build energy hubs with a broader application, which is why Oxford installed a large and long-lasting battery near charging stations for electric cars.
2022-08-31 | pl | forsal.pl

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Documents that report on the same subject matter from other perspectives are grouped into Topics.

Topic Summary from the related documents of a topic with focus on the key insights of the documents.

Highlighting the relevant skills/functions and the involved companies/organizations

Prepared Title of the related documents, Incl. link to original source

Metainfo for the document: Date | Language | Source

Brief **one-sentence summary** of each document

Signal Finder

PM Summary and Key Insights

Release October 2022

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