

# Fluidic energy storage logo





## Overview

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Fluidic Energy is a corporation based in Scottsdale, Arizona that develops metal-air rechargeable batteries. The company sells systems for energy storage applications from rural electrification to critical backup power and has strong ties throughout the US, Latin America, Asia, and Africa. In March 2015 the Company.

In November 2013, the (IFC), a member of the announced its \$7 million investment into the company. In 2013, the firm also closed a private funding round of \$34.5 million.

Fluidic Energy's products are built around a rechargeable developed initially at Arizona State University, with continued development since 2006. Development of a practical.

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Who is Fluidic Energy?

Fluidic Energy is a corporation based in Scottsdale, Arizona that develops metal-air rechargeable batteries. The company sells systems for energy storage applications from rural electrification to critical backup power and has strong ties throughout the US, Latin America, Asia, and Africa.

What does fluidic do?

Fluidic Energy has successfully developed an alternative to lithium-ion for energy storage - a rechargeable, low-cost Zinc-Air battery with an embedded battery management software.

How many BNEF batteries does fluidic have?

Fluidic has been delivering large commercial customers long-duration intelligent energy storage solutions in over 2,000 installations with 100,000+ batteries in 10 countries. Is your company the next BNEF New Energy Pioneer?

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What makes Fluidic Energy unique?

Fluidic Energy develops our own proprietary battery technology, power electronics and embedded software controls. These in-house capabilities led us to commercialize the world's first embedded intelligent controls in a battery cell and deliver automated Energy-as-a-Service capability to our customers.

How much does Fluidic Energy cost per kilowatt-hour?

"Our sweet spot is four to 24 hours, and at \$200 to \$300 per kilowatt-hour, we're ready to serve the long-duration market." Fluidic Energy is a commercial-scale, zinc-air battery firm. Although the firm has raised more than \$150 million in funding from strategic, venture and government sources, it has managed to keep a relatively low profile.

Is fluidic a good battery?

Fluidic's zinc-air batteries match the profile of a lead acid battery -- plug in the box and it's good to go. Some flow battery materials, like vanadium and bromine, create toxicity worries as well. The current costs for flow batteries also run higher than what Fluidic has achieved at startup scale.



## Fluidic energy storage logo



### (PDF) Coupled thermo-fluidic model for thermal energy storage ...

Coupled thermo-fluidic model for thermal energy storage based on liquid solid phase change  
February 2020 Materials Research Express 7(2)  
DOI:

### Battery Power Online , Fluidic Energy's First Zinc-Air Battery ...

Clean energy storage solutions provider Fluidic Energy has completed the five year warranty period at one of its first Zinc-air long duration energy storage system installations and has ...



### Fluidic Energy joins PV-powered mini-grids project in Madagascar

6 ???· US firm Fluidic Energy said Wednesday it will supply 45 MWh of its advanced energy storage products for mini-grid systems to be deployed in remote villages and communities in Madagascar. The 100 Communities Renewable Energy Project also involves the

### Fluidic Energy's First Zinc-Air Battery Storage

Clean energy storage solutions leader Fluidic Energy(TM) has completed the five year warranty period at one of its first Zinc-air long duration energy storage system installations ...



### Fluidic Energy , F6S

Claim the Fluidic Energy page Claim page This page was created when someone associated with Fluidic Energy joined F6S. Verified Fluidic Energy employees can claim the page to update it Similar companies Fuel Cells Global LTD Electricity generation and storage for the needy around the world AquaBattery AquaBattery developed a flowbattery that stores energy in only water & ...



### How Zinc-Air Batteries Are Taking On the Long ...

A 202 kilowatt-hour Fluidic Energy Storage System, coupled with a 30-kilowatt PV array, provides electricity to the village of Aidiru, about 100 homes, in the Papua Barat region of Indonesia.



### Multi-scale modeling and investigation of thermo-fluidic ...

DOI: 10.1016/J.EST.2021.102502 Corpus ID: 233543922 Multi-scale modeling and investigation of thermo-fluidic performance of microencapsulated phase-change material slurry Phase-change materials (PCMs) are attractive materials for storing thermal energy





## PROJECT IMPACT SHEET ZINC-AIR GRID ENERGY STORAGE

ADVANCED RESEARCH PROJECTS AGENCY-ENERGY UPDATED 02/24/2016 Fluidic, Inc. "Methods of Producing Sulfate Salts of Cations from Heteroatomic Compounds and Dialkyl Sulfates and Uses Thereof". (9/29/2015) US Patent No. 9147919. Washington

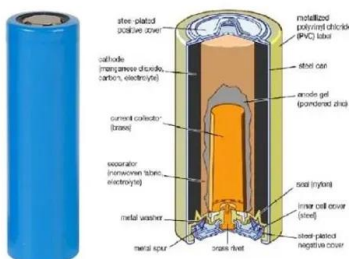


### Fluidic Energy's First Zinc-Air Battery Storage Systems Reach ...

SCOTTSDALE, Ariz., March 22, 2017 /PRNewswire/ -- Clean energy storage solutions leader Fluidic Energy has completed the five year warranty perio SCOTTSDALE, Ariz., March 22, 2017

[Impact Sheet . arpa-e.energy.gov](http://Impact Sheet . arpa-e.energy.gov)

ZINC-AIR GRID ENERGY STORAGE UPDATED: FEBRUARY 24, 2016 PROJECT TITLES: Metal-Air Ionic Liquid Batteries; Advanced Grid-Interoperable Power Electronics Enabling Scalability And Ultra-Low CostPROGRAM: OPEN 2009; GRIDSAWARD: \$5,133,150; \$2,993,128PROJECT TEAM: Arizona State University (Lead); Fluidic Energy (Lead)PROJECT ...



### fluidic energy Archives

Zinc-air battery-based energy storage system maker Fluidic Energy has received US\$20 million in investment for projects in south-east Asia from a private equity fund which includes the Asian Development Bank as a partner. Round-up: Saft's new China facility



### Thermo-fluidic characteristics of ice slurry flows in U-bend pipes ...

DOI: 10.1016/j.est.2022.106224 Corpus ID: 254307833 Thermo-fluidic characteristics of ice slurry flows in U-bend pipes for cold thermal energy storage @article{Rezaei2023ThermofluidicCO, title={Thermo-fluidic characteristics of ice slurry flows in U-bend pipes for cold thermal energy storage}, author={Mohammad Javad Rezaei and Hossein ...



### Fluidic Energy's First Zinc-Air Battery Storage Systems Reach ...

Fluidic Energy continues to build momentum as the long-duration energy storage leader, installing systems worldwide that increase reliability, functionality and surpass ...

### New Energy Pioneers: Fluidic Energy , BloombergNEF

Fluidic Energy has successfully developed an alternative to lithium-ion for energy storage - a rechargeable, low-cost Zinc-Air battery with an embedded battery management software. Fluidic's battery cells are a more robust and reliable alternative to the lead acid batteries and diesel generators that telecommunications and rural electrification micro-grids have ...



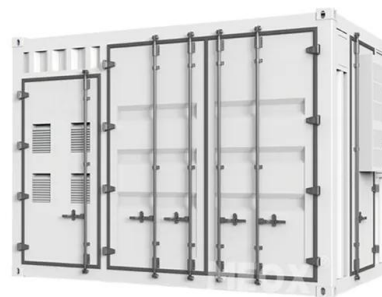
### Fluidic Energy Provides Intelligent Energy Storage System for ...

The village grid systems deployed will utilize more than 35MWp of photovoltaic panels and in excess of 250MWh of Fluidic Energy storage capacity. The project will provide electricity to 325,000



### Nant Energy Company Profile: Financials, Valuation, and Growth

Nant Energy is a privately-held renewable energy storage company that provides intelligent energy storage solutions. Nant Energy was founded in 2006 by Cody Friesen. Nant Energy headquarters are located in Scottsdale, Arizona. Nant Energy was formerly known

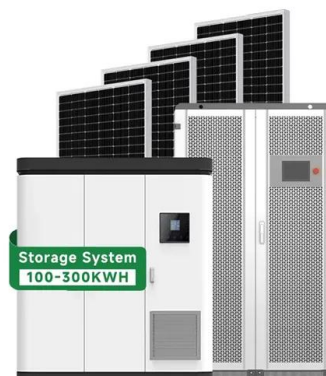


### Engineering the Thermal Conductivity of Functional ...

Thermal energy storage technologies based on phase-change materials (PCMs) have received tremendous attention in recent years. These materials are capable of reversibly storing large amounts of thermal energy during the isothermal phase transition and offer enormous potential in the development of state-of-the-art renewable energy infrastructure. ...

### Fluidic Energy , LinkedIn

Fluidic Energy , 4.436 pengikut di LinkedIn. Fluidic Energy is unique in many ways and arguably the most advanced new energy storage company in the world. After stealthily delivering thousands of batteries to select global customers since 2011, Fluidic Energy is one of the only new energy storage technology companies in 15 years that has; (1) proven its technology ...



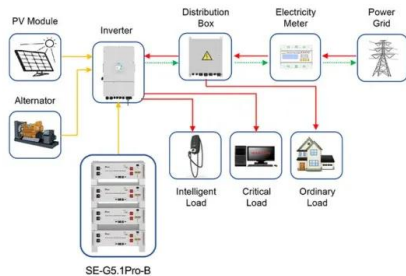


### Fluidic Energy Unveils its First Residential Energy Storage Unit, ...

SCOTTSDALE, Ariz., Oct. 11, 2016 /PRNewswire/ -- Fluidic Energy hosted Arizona Corporation Commissioner Andy Tobin on a tour of its technology, manufacturing and monitoring facilities today while

### With 3,000 Systems and Money to Scale, Will NantEnergy Make ...

The company has since spun off the Indonesia factory as an independent licensed regional manufacturer. NantEnergy expanded its offerings to include hybrid systems that pair long-duration zinc-air



Application scenarios of energy storage battery products

### Fluidic Energy - Tropical Renewable Energy Center

Research on fluidic energy focuses on the innovative technology for conversion, distribution, transmission and storage of fluidic energy. The research in fluidic energy emphasizes on tropical climate and the characteristics of water, wind and ocean in the region.

### [NantEnergy Company Profile](#)

NantEnergy (formerly known as Fluidic Energy) is a company developing clean energy storage solutions. It offers proprietary zinc-based rechargeable batteries that have less impact on the ...





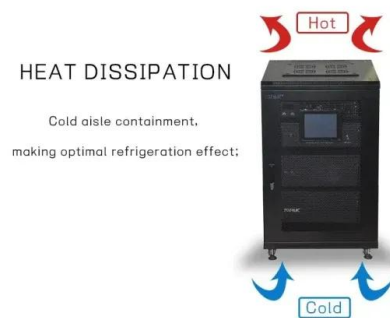
### Battery Power Online , Fluidic Energy's First Zinc-Air Battery Storage

Clean energy storage solutions provider Fluidic Energy has completed the five year warranty period at one of its first Zinc-air long duration energy storage system installations and has proven the capabilities of the technology to overcome barriers of theft, reliability and cost that have historically slowed feasibility and uptake of renewables.



### Fluidic Energy Provides Intelligent Energy Storage Systems for ...

The village mini-grid systems deployed will utilize more than 7.5MWp of photovoltaic panels, 45MWh of Fluidic Energy Advanced Energy Storage products, connections and pre-pay billing systems.



### [Asian Development Bank among contributors to](#)

Fluidic's zinc-air battery. Image: Fluidic. Zinc-air battery-based energy storage system maker Fluidic Energy has received US\$20 million in investment for projects in Southeast Asia from a private equity fund which includes the Asian Development Bank as a partner.

### Equity Investment Fluidic Distributed Energy Storage Solutions Project

\$5,000,000 in Fluidic (Fluidic) for the Distributed Energy Storage Solutions Project. II. THE PROJECT A. Project Identification and Description 2. Project identification. Affordable, reliable, and safe energy storage2 is the untapped catalyst of distributed clean





## FEIABEN

ABOUT FLUIDIC ENERGY Fluidic Energy has developed an energy storage platform that stores and delivers energy on demand at a cost point that transforms how energy is distributed, and consumed. Fluidic improves energy security today with 4, 8, 12, 24 hour



### Integrated Solutions for-Battery Energy Storage

Energy storage is essential for the transition to a sustainable, carbon-free world. As one of the leading global energy platform providers, we're at the forefront of the clean energy revolution. We offer fully integrated utility-scale battery energy storage systems to



### How Zinc-Air Batteries Are Taking On the Long ...

A 202 kilowatt-hour Fluidic Energy Storage System, coupled with a 30-kilowatt PV array, provides electricity to the village of Aidiru, about 100 homes, in the Papua Barat region of

### Thermo-fluidic performance of microencapsulated phase change ...

DOI: 10.1016/j.est.2021.103247 Corpus ID: 244203708 Thermo-fluidic performance of microencapsulated phase change material slurry in thermal energy storage @article{Xu2021ThermofluidicPO, title={Thermo-fluidic performance of microencapsulated phase change material slurry in thermal energy storage}, author={Lingling Xu and Liang Pu and ...



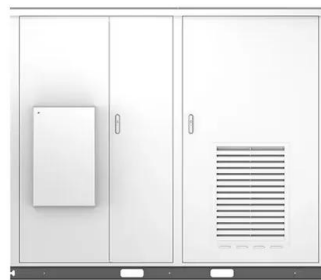


### **Fluidic Energy Is the Biggest Zinc-Air Battery Startup You Haven't**

Fluidic Energy is a commercial-scale, zinc-air battery firm. Although the firm has raised more than \$150 million in funding from strategic, venture and government sources, it has managed to

[Fluidic Energy , arpa-e.energy.gov](https://arpa-e.energy.gov)

Technology Description: Fluidic Energy is developing a low-cost, rechargeable, high-power module for Zinc-air batteries that will be used to store renewable energy. Zinc-air batteries are ...



### **New Energy Pioneers: Fluidic Energy , BloombergNEF**

Fluidic Energy has successfully developed an alternative to lithium-ion for energy storage - a rechargeable, low-cost Zinc-Air battery with an embedded battery management ...



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