

# **Navigant research energy storage**





## Overview

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What does Navigant Research Report tell us about energy storage projects?

A new report from Navigant Research provides a database of global energy storage projects along with a regional analysis of technology choice, capacity, and market share for deployed projects and projects in the pipeline.

What is Navigant Research?

of market opportunities within its coverage areas. Navigant Research is not beholden to any special interests and is thus able to offer clear, actionable advice to help clients succeed in the industry, unfettered by technology hype, political agendas, or emotional average annual growth rate, using the formula:  $CAGR =$

Are power conversion systems the future of energy storage?

The market for power conversion systems (PCS) used in energy storage is becoming “increasingly crowded” with competitors, while the diverse field of players will contribute to “rapid technological innovations and price reductions”, Navigant Research has said.

Are lithium ion batteries the fastest growing energy storage technology?

2019 marked a transformational year for the global energy storage market, according to Navigant Research Lithium ion batteries will be the fastest growing energy storage technology, with annual growth expected to reach more than 28 GW by 2028.

Is Li-ion the future of energy storage?

“Although pumped hydro storage (PHS) still accounts for 96% of installed energy storage capacity worldwide, Li-ion is the choice technology among project developers and system integrators,” says Ricardo F. Rodriguez, research analyst with Navigant Research. “The technology is expected to account for 85% of newly installed energy capacity.”



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- ✔ LIQUID/AIR COOLING
- ✔ INTELLIGENT INTEGRATION
- ✔ PROTECTION IP54/IP55
- ✔ BATTERY /6000 CYCLES



### Navigant on energy storage as 'non-wires' alternative for utilities

One of the 'value of energy storage' questions that was being asked a lot two or three years ago was around the use of batteries and decentralised system architecture instead of traditional "poles and wires" grid networks. However, advancements in this area have been slow to materialise and Navigant Research's recent 'Energy Storage for Transmission and ...

### Navigant Research Is Now Guidehouse Insights , Press Release

"Navigant Research has long differentiated itself in the industry with strong analysis, independent coverage, and superior guidance to clients," says Jan Vrins, leader of Guidehouse's global Energy, Sustainability, and Infrastructure segment.



### Navigant Research Leaderboard Report: Energy Storage System integrators

One area of critical importance for the energy storage market is energy storage systems integration Using Navigant Research's proprietary Leaderboard methodology, vendors are profiled, rated

### Navigant Research Report Shows Pairing Wind with Energy Storage ...

BOULDER, Colo.--(BUSINESS WIRE)--A new report from Navigant Research examines the use of energy storage for wind integration, covering



existing and upcoming projects, the competitive landscape



### Press Release , Navigant Research Leaderboard: Utility-Scale ...

A new Leaderboard Report from Navigant Research examines the strategy and execution of 12 energy storage systems integrators (ESSIs), with Fluence, Nidec ASI, Tesla, ...

### IFC - ENERGY STORAGE MARKET REPORT

6 / ©2016 NAVIGANT CONSULTING, INC. ALL RIGHTS RESERVED ENERGY STORAGE MARKET SEGMENTS Utility-Scale Behind-the-Meter Remote Power Systems o Refers to ESSs located on the customer side of the meter, e.g. commercial and industrial



### Global Energy Storage for EV Charging Market

A new report from Navigant Research examines the global market for the EV charging, providing market forecasts segmented by charger location, charger power level, technology, and region, extending through 2027. As energy storage becomes a ...





## Navigant Research launches Energy Storage Forecast Data Service

Navigant Research announced the launch of its Energy Storage Forecast Data Service, which provides quarterly market insights on the emerging energy storage technologies and applications for the largest global markets. Powered by Navigant Research's energy storage forecast models, this Data Service enables users to prioritize investment targets in markets ...



## Navigant Research Names ViZn Energy and Sumitomo Electric ...

A new Leaderboard Report from Navigant Research examines the strategy and execution of 13 vendors of non-lithium ion (Li-ion) batteries for grid storage. Despite the popularity they've gained in the last couple years--thanks to increases in manufacturing capacity and sales volumes from the complementary electric vehicle industry--Li-ion batteries are not well-suited ...

## Navigant: Energy storage PCS becoming a 'crowded' ...

The market for power conversion systems (PCS) used in energy storage is becoming "increasingly crowded" with competitors, while the diverse field of players will contribute to "rapid technological innovations and price ...



## Power Capacity of Global Installed Energy Storage for the Grid ...

BOULDER, Colo.-(BUSINESS WIRE)-A new report from Navigant Research examines the growing opportunities for energy storage systems (ESSs) to provide numerous services to the grid, with global



### RESEARCH REPORT Navigant Research Leaderboard: Energy ...

Navigant Research Leaderboard: Energy as a Service Solutions Providers ©2019 Navigant Consulting, Inc. Notice: No material in this publication may be reproduced, stored in a retrieval system, or transmitted by any means, in whole or in part, without the express



### RESEARCH REPORT North American Energy Storage Copper ...

1.3 Summary of Results Navigant Research predicts that the Asia Pacific region will be the leading region for energy storage, and consequently the most copper intensive region through 2027. While it is currently smaller than the North American market, some of

### Asia Pacific: largest market for energy storage ...

A new report from Navigant Research analyses the global market for energy storage systems (ESSs), providing forecasts of software vendor revenue for upfront system deployment and annual platform ...





[IRENA Battery Storage Report 2015](#)

and Anthony Vassallo (University of Sydney), Anissa Dehamna (Navigant Research), Paul Denholm (National Renewable Energy Laboratory), Ben Kaun (Electric Power Research Institute), Michael Koller (Elektrizitätswerke des Kantons Zürich), Thomas Leyden (Solar Grid Storage), Matthew Maroon (Aquion



**Navigant Research Report Shows Lithium Ion Batteries Expected ...**

BOULDER, Colo.--(BUSINESS WIRE)--A new report from Navigant Research provides a database of global energy storage projects along with a regional analysis of technology choice, capacity, and market

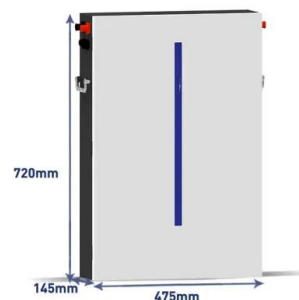


**Navigant: Li-ion for ESS to exceed 28GW globally by 2028**

While pumped hydro plants still account for around 96% of installed capacity of stationary energy storage worldwide, there will be more than 28GW of lithium batteries ...

**Navigant Research's Energy Storage Tracker Identifies More ...**

Navigant Research's Energy Storage Tracker Identifies More Than 1,700 Projects in Latest Update Improvements in technologies, new business models, regulatory and market conditions are expected to drive the energy storage market forward A new report from Navigant Research tracks global energy storage projects, providing data on the country, ...





### RESEARCH REPORT Navigant Research Leaderboard Report: ...

Navigant Research Leaderboard Report: Utility-Scale Energy Storage Systems Integrators ©2016 Navigant Consulting, Inc. Notice: No material in this publication may be reproduced, stored in a retrieval system, or transmitted by any means, in whole or in part

### Navigant Research Finds Energy Storage Can Improve the ...

BOULDER, Colo.--(BUSINESS WIRE)--A new report from Navigant Research examines the relationship between energy storage and smart cities, providing an overview of relevant applications as well as



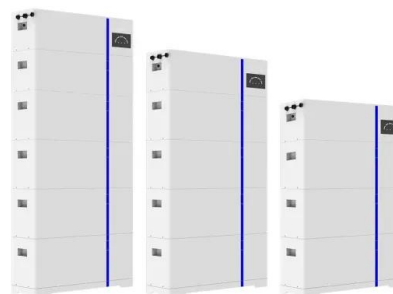
### Energy Storage Trends and Opportunities in Emerging Markets

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### RESEARCH REPORT Executive Summary: Navigant Research ...

1.1. Market Introduction. competitive since 2016 as projects become economically viable for a range of new applications in new geographies. As the market matures and expands, the role of ...

### ESS





### Navigant Research's Energy Storage Tracker Identifies Over ...

BOULDER, Colo.-- ( BUSINESS WIRE )--A new report from Navigant Research tracks global energy storage projects, providing data on the country, region, market segment, ...



### Navigant: Utility scale battery capacity to

The annual energy capacity of batteries& nbsp;used in utility-scale applications will be seen to increase& nbsp;by a factor of more than 100 between now and 2023, according to a new report published by US analysis firm Navigant Research. 'Advanced Batteries for



### Navigant Research's Energy Storage Tracker Identifies Over ...

Navigant Research's Energy Storage Tracker Identifies Over 1,900 Projects in Latest Update Energy storage is expected to become an increasingly viable option to meet changes in load, which will



### LG Chem, Samsung SDI at top of Navigant's grid-scale Li-ion

A new study from Navigant Research into the strategy and execution of various lithium-ion battery providers in the utility-scale energy storage industry identified Korean companies LG Chem and Samsung SDI as "leaders" of a rapidly-growing sector.



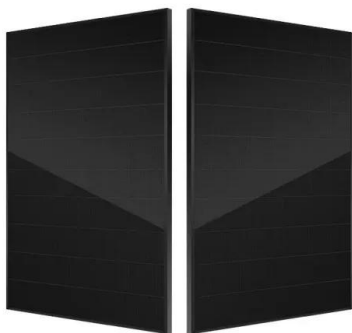


### Navigant: Lack of experience holding energy storage ...

Energy storage will increasingly be deployed to save money on electricity transmission and distribution (T& D) infrastructure, with nearly half of the global market by 2026 to be found in the Asia-Pacific region, Navigant ...

### Market Intelligence , Guidehouse Insights

Guidehouse Insights is a premier market intelligence and advisory firm covering the global energy transformation with a focus on emerging resilient infrastructure systems. Mackinnon Lawrence Senior Research Director Mackinnon Lawrence is a director in Guidehouse's global Energy, Sustainability, and Infrastructure practice and the leader of Guidehouse Insights.



### Navigant Research Finds Energy Storage Can Improve the ...

The study provides an overview of energy storage applications within smart cities, including drivers and barriers for energy storage, and discusses how energy storage ...

### Navigant Research Launches Energy Storage Forecast Data ...

Navigant Research also offers the Energy Storage Projects Data Service, which provides project data -- including the participating companies and project scale -- on current and newly commissioned energy storage projects across the globe.





### **Navigant: Energy storage for renewables integration to reach ...**

As the cost of global renewable energy projects declines, Navigant Research anticipates the worldwide revenue from energy storage for renewables integration (ESRI) will ...



### **Lithium Ion Batteries to Top Energy Storage Tech: Study**

Lithium ion batteries will be the fastest growing energy storage technology, with annual growth expected to reach more than 28 GW by 2028. The technology is expected to ...



### **Download the Navigant Research Leaderboard Report**

Read the Navigant Research Leaderboard Report on utility-scale energy storage systems integrators. This report includes: Market overview and trends for grid energy storage Assessments on the 14 leading utility-scale systems integrators

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