



Energy Storage Intelligence

Advanced Batteries, Fuel Cells, and Other Technologies for Vehicles and Stationary Storage

Innovative energy storage is increasingly impacting the world, from mobile applications like electric vehicles, hybrids, and consumer electronics to stationary uses like peak shaving, distributed storage, and backup. Stringent emissions regulations and new grid energy storage mandates are leading to increased adoption of energy storage. These drivers create opportunities for innovative companies across the energy value chain. The Lux Research Energy Storage Intelligence Service answers key questions like:

- > How will the electrification of vehicles change the make-up of the automotive fleet, from micro hybrids to full electric cars?
- > What architectures and materials are best suited for stationary storage applications, from utilities to distributed?
- > How do innovations throughout the value chain impact the cost competitiveness and adoption prospects for energy storage?
- > What technologies are best suited for next generation consumer electronics, and who are the best positioned players?

Intelligence Access

For more information on how to access the Lux Energy Storage Intelligence service, contact your Lux Research account manager, or call +1-888-589-7373 or +1-617-502-5300. Send email to info@luxresearchinc.com. Visit us on the web at www.luxresearchinc.com.

Sample Energy Storage Topics

Technologies

- > Lithium-ion batteries
- > Cathodes, anodes, and electrolytes
- > Flow batteries
- > Molten salt batteries
- > Advanced lead-acid batteries
- > 48 V batteries
- > Solid-state batteries
- > Lithium-sulfur batteries
- > Metal-air batteries
- > Supercapacitors
- > Hybrid capacitors
- > Fuel cells
- > Flywheels
- > Thermoelectrics
- > Piezoelectrics
- > Magnetic materials and motors
- > Wireless power
- > Centralized and distributed battery management systems

Applications

- > Plug-in electric vehicles
- > Buses and heavy vehicles
- > Electric bikes
- > Internal combustion vehicles
- > Micro/mild/full hybrids
- > Peak shaving, upgrade deferral
- > Ancillary services, arbitrage
- > Renewable shifting, integration
- > Distributed and off-grid storage
- > Residential and commercial
- > Backup power, UPS, microgrids, and rural power
- > Portable electronics
- > Wireless sensors
- > Medical devices
- > Fuel cell vehicles
- > Rail
- > Forklifts
- > Aircraft

Companies

- > Ballard Power Systems
- > BYD
- > EnerG2
- > Energy Power Systems
- > Envia Systems
- > Evonik Industries
- > Gentherm
- > LG Chem
- > Maxwell Technologies
- > Nissan AESC
- > Novolyte Technologies
- > Oxis Energy
- > Piezotag
- > REDT
- > Seeo
- > Stem
- > Tesla Motors
- > Transense
- > Wildcat Discovery

Lux Research Difference

The Lux Energy Storage Intelligence service is unique because it is:

Proprietary

Offers exclusive insights from primary interviews and site visits

Opinionated

Makes decisive calls about companies and technologies

Unbiased

Obtains objective/independent information and delivers impartial analysis

Confidential

Allows clients to secure information about innovators without revealing their identities

Cost-effective

Costs far less than expensive consultants or a resource-intensive internal team

Energy Storage Intelligence

Research Membership Access

Lux Research members get on-demand access to Lux’s analysts, publications, and data across a set of emerging technology domains customized to their needs. Analysts with deep expertise in each domain provide ongoing market intelligence and technology scouting to help executives find new business opportunities and make better decisions.

Membership Benefits

Executive Sessions

Lux Research analysts regularly structure and deliver Executive Sessions – typically half-day to full-day onsite interactive meetings, which are a combination of Lux Research presentations and working sessions – that allow clients to tap more deeply into Lux data, methodologies, and insight.

Member Site

Lux Research’s ongoing series of Company Profiles, Journals, and Market Reports provide a wealth of information. To access these publications and quickly find the information you need, clients can use Lux Research’s Member Site.

Market Analysis

Lux Research analysts’ deep understanding of the underlying technologies makes them uniquely qualified to provide insightful market analysis of emerging technology areas. Drawing on extensive primary research for technical and market insight, Lux Research helps clients understand market opportunities through:

- Market Reports
- Analyst Insights
- Data Trackers

Company Profiles

The core of Lux Research’s Intelligence services are our ongoing briefings – analysts select 50 to 125 leading innovators in each emerging technology field and publish primary-research-driven, opinionated, quantitative profiles of these players. These profiles are delivered to clients in email and available online through the Member Site.

Analyst Inquiries

In addition to accessing Lux Research’s written research in the form of Company Profiles, Journals, and Market Reports, clients can also contact Lux Research analysts, who will quickly answer custom questions based on their ongoing research into emerging technology areas.

Visualization Tools

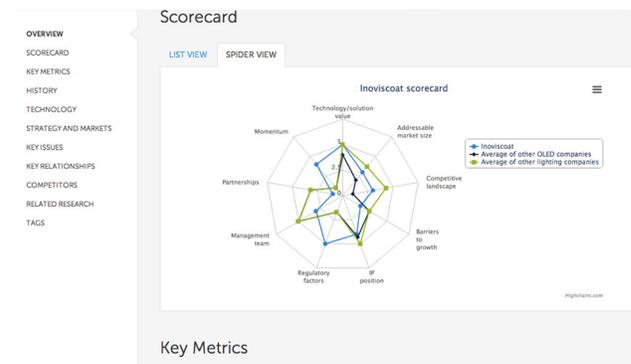
Lux Innovation Grids

Lux Research collects information and provides analysis on top innovators in emerging technology areas through company briefings. The Lux Innovation Grid uses data and insights from these profiles to compare companies.



Spider Charts

Lux Research uses spider charts to show a technology provider’s scorecard, rating the company on 10 critical success factors, and compares it to other companies in the market in which they participate and the broader area of companies in their technology space.



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