

LG Energy Solution

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LG Energy Solution Showcases ESS Leadership at ees Europe 2025 in Munich



Munich (ots) -

- **Company enhances local production capabilities through Poland facility, proudly offers customized turnkey solutions to each customer**
- **Presenting diverse lineup of ESS batteries, including grid-scale batteries with ultra-long lifespan produced entirely in Europe, home batteries, and UPS batteries**
- **Company unveils Battery Passport in response to EU Battery Regulation (2023/1542), leading the way on regulatory compliance**

LG Energy Solution has announced its participation at ees Europe 2025, Europe's largest international exhibition for batteries and energy storage systems (ESS), to be held at Messe München in Munich, Germany, from May 7 to 9.

Under the theme "Empower Every Possibility, Empower Whenever You Need," the company will showcase its innovative lineups and core capabilities, reinforcing its leadership in the global ESS market.

Local European production capabilities enabled by influential Wroclaw plant

LG Energy Solution has revealed that its manufacturing facility in Wroclaw, Poland, is establishing dedicated ESS production lines that will commence production later this year. This move is expected to give the company a competitive edge in terms of local responsiveness, lower logistics costs, and quicker adaptation to market changes. With the Wroclaw facility, LG Energy Solution is uniquely positioned as the only ESS manufacturer capable of producing everything from cells to systems within Europe. The company also reaffirmed its commitment to delivering highly customized turnkey solutions tailored to different customers and projects in cooperation with local partners including system integrators and EPC (Engineering, Procurement, and Construction) firms.

Introducing European-made grid-scale ESS solution boasting ultra-long lifespan and high energy, along with home and UPS batteries

At this year's ees Europe exhibition, LG Energy Solution is introducing its next-generation grid-scale LFP ESS product - a highly integrated DC System built into a 20-foot container and made entirely in Europe, from cell to system. The solution applies the JF2S cell produced at LG Energy solution's Wroclaw facility, offering 2.7-times more energy compared to the previous JF1 cell, along with an ultra-long lifespan of up to 15,000 cycles. The JF2S Pack uses a stackable design in which three modules are combined into a single unit. This configuration reduces the spacing between packs that typically occurs when assembling racks, allowing more packs to be installed within a limited space and greatly increasing energy density compared to previous models. A thermal barrier design has been applied between cells to enhance safety, with each module also equipped with a liquid cooling plate at the bottom to effectively manage battery heat.

In the home battery zone, the company is exhibiting its JF1R & JF1 stackable battery series which are manufactured in Europe to

ensure faster delivery, stable supply, and full compliance with EU quality standards. Easily installed thanks to a plug-and-play system, these products ensure that a single technician can complete the setup in just 10 minutes. Powered by the company's proprietary SoX algorithm, these home batteries offer industry-leading accuracy in state-of-charge estimation, providing reliable and stable performance. The products are also backed by a 15-year warranty.

LG Energy Solution is also introducing its UPS (Uninterruptible Power Supply) battery solution to address the growing needs of IT facilities such as AI data centers. The solution's high energy density enables compact installations while maximizing backup capacity through advanced high-output battery technology. Delivered pre-assembled, UPS significantly reduces installation time as well as transportation and installation costs. A self-powered Switching Mode Power Supply (SMPS) has also been applied to enable the Battery Management System (BMS) and Battery Protection Unit (BPU) to function independently from external power sources.

Proactively addressing regulatory requirements via Battery Passport

LG Energy Solution is also unveiling a pilot version of its Battery Passport in a preemptive response to the EU Battery Regulation (2023/1542), which mandates the use of Battery Passport from February 2027. A Battery Passport provides a digital record of comprehensive data across the entire battery value chain, including sustainability metrics and general battery information, to enhance transparency, traceability, and accountability while minimizing environmental impact. The company is also planning to develop and operate a Battery Regulation Management (BRM) system that effectively gathers data and then shares it with customers and stakeholders.

"With European demand for grid-scale, residential, and UPS ESS growing rapidly, LG Energy Solution is committed to delivering best-in-class quality and local production capabilities to proactively meet various customer needs," said Hyung Kim, Head of LG Energy Solution's ESS Battery Division. "We will continue to actively address evolving regulatory requirements while offering integrated solutions that combine hardware and software, further solidifying our leadership in the European ESS market."

Pressekontakt:

LG Energy Solution Global Communications Team:
lgesnews@lgensol.com

Medieninhalte



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