



# 500 kWh samsung sdi energy storage

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Samsung SDI joined the Li-ion ESS business in 2011. It is of the world's top technologies for small-sized lithium-ion rechargeable batteries. After just three years of running the business, we have been ranking on the top of the industry. Our solution delivers the world's most stable rechargeable batteries, as we were able to leverage from our vast experience in the small-sized battery business. ESS is a high quality solution, as it is utilizing the same highly reliable batteries that are used in BMW electric cars.

ESS is optimized for specific countries. This empowered us to leverage electronics in the home market of Japan and Europe, and in the commercial market in the US, faster than our competitors. As a result, in the third quarter of 2014, we became the number one provider in the global ESS market with a market share of 23.6%.

In R& D Center, your primary responsibility is to contribute to the development of cutting-edge technologies that lead the industry and market trends. Your expertise will play an essential role in conducting extensive research and development activities focused on "super-gap technology" in lithium-ion batteries and beyond.

In Technical Teams, you will offer unparalleled technical expertise to our esteemed customers in the field of lithium-ion batteries and facilitate valuable connections within the European energy industry network. Furthermore, you will act as a quality expert and trusted advisor for our customers, providing technical-oriented guidance and support throughout the entire product lifecycle, and ensuring a smooth transition from acquisition to market launch with specific focus after start of production (SOP).

As a Sales Team Member, your primary responsibility is to develop and nurture relationships with customers, maximizing the flow of information and staying abreast of market trends to identify new business opportunities. By actively coordinating and collaborating with cross-functional departments, you will play a pivotal role in supporting new project launches. Additionally, you will be responsible for monitoring and ensuring the timely delivery of agreements, utilizing various tools and systems to facilitate efficient communication.

As a Strategic Marketing Team Member, you gather, analyze, and interpret market data and information to provide strategic insights and support decision-making across the organization. Your expertise will play a key role in shaping our market strategy, identifying opportunities, and staying ahead of the competition. Moreover, you will strategically engage in public relations, ensuring that organization's interests are well represented and understood by the public.

You will collaborate with various departments within the organization to help implement the business strategy and support the decision-making process. Your responsibilities will encompass a range of areas, including

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personnel, general affairs, financial affairs, planning, and legal affairs. By utilizing your knowledge and skills in system design, laws & regulations, data analysis, and effective communication, you will play a critical role in facilitating the smooth functioning of the organization.

ESS complements the intermittency of renewable energy produced by wind or solar power generation system. ESS stabilizes the output of renewable energy by charging & discharging irregular and intermittent power which is generated by wind and solar system.

Power storage can manages local peak demand in a smart way, deferring the point of necessary investment for transmission and distribution network pplying Power Transmission / Mitigating Excessive Power Demand Region & Frequency Control

Electricity stored during off-peak time can be used during on-peak hours so that home/commercial owners can cut peak demand and electricity cost. ESS integrated with PV can maximize consumption of solar energy by using electricity stored off-peak.

Due to transmission constraints, currently, the ever-increasing portion of wind generation is being curtailed. Energy storage is the best option for reducing renewable power curtailment, relieving transmission congestion, and achieving full utilization of renewable energy sources.

Samsung SDI signed an MOU with ABB, one of the global leaders in power and automation technologies for joint development and sales of micro-grid ESS solution. It has a great significance because Samsung SDI established a foundation to make a leap to be the number one in micro-grid ESS market. We are going to develop and sell the optimized ESS solution using Samsung SDI's lithium-ion battery technology together with ABB's power component technology such as PCS, EMS, etc.

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