

Specific energy storage applications abudhabi

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Emirates Global Motor Electric stands out as a prominent player in the energy storage industry in Mussafah, Abu Dhabi, UAE. With a commitment to innovation and sustainability, the company offers a range of cutting-edge energy storage solutions tailored to meet the evolving needs of businesses and communities.

In today's society, the demand for high-powered energy sources is continuously expanding. However, overloading the grid with this demand can result in inefficiencies and strain on current infrastructure. To overcome this issue, energy storage technologies have emerged as a game changer. In this blog article, we will look at the benefits and possibilities of energy storage systems, with an emphasis on Emirates Global Motor Electric (EGME)'s cutting-edge technologies.

EGME's energy storage systems are intended to provide a high-power energy source without overburdening the grid. For example, ultra-fast chargers, which require a constant power load of around 100kW, can be easily handled by EGME's Power Conversion System (PCS) unit, which has a capacity of 125kW. These systems use a 120kVA transformer to provide high-quality AC energy, fulfilling the demanding power requirements of a variety of applications.

The CATL EnerOne 372kWh battery is at the heart of EGME's energy storage systems and is widely regarded as the best in the world. This high-performance battery offers an outdoor storage option for commercial and industrial (C& I) applications. Its bidirectional power converter allows for seamless operation in off-grid mode, with a high power output to suit charging requirements. With the CATL EnerOne battery, EGME's energy storage systems accomplish sustainable and effective energy use, in line with the UAE's national climate-saving policies.

EGME's energy storage systems are made up of numerous important components that all function together seamlessly. These components are the battery, power converter, controller, transformer (120kVA), and distribution box. The integration of these components results in a dependable and efficient energy storage solution. Furthermore, the system's communication and power lines are intended to support two systems, increasing its versatility and scalability.

One of the most notable benefits of EGME's energy storage systems is their capacity to provide high-power electricity without relying only on the grid. These systems can provide a consistent power supply during peak demand periods by storing excess energy during off-peak hours or using renewable energy sources. This grid independence not only relieves demand on current infrastructure, but also helps to create a more sustainable and resilient energy ecology.

EGME's energy storage solutions are meant to be energy efficient. These systems use innovative



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power conversion technology and clever control systems to maximize energy utilization and reduce waste. The CATL EnerOne battery, along with the bidirectional power converter, ensures effective energy conversion and storage, hence improving total system performance.

EGME's energy storage systems are consistent with the UAE's national climate-saving initiatives, which seek to minimize carbon emissions and promote sustainable energy usage. These systems encourage the use of electric vehicles, the integration of renewable energy, and overall energy saving initiatives by providing a dependable and efficient power supply. EGME's commitment to sustainability and good energy management helps to create a greener, more ecologically friendly future.

Emirates Global Motor Electric, a member of Al Fahim group, is a complete electric mobility solution provider, distributor of electric vehicles and chargers including range of passenger vehicles, vans, buses and trucks.

n innovative R& D project that will demonstrate 24/7 affordable clean energy utilization has been launched at Masdar City in Abu Dhabi. The cutting-edge distributed and scalable Thermal Energy Storage-Power on Demand (TES.POD) system, will be run by Sweden's Azelio long duration energy storage company, Khalifa University of Science and Technology, and Masdar, as part of a three-party research and development agreement.

Now officially in operation, the Azelio storage system is used with solar photovoltaic (PV) panels and enables renewable and cost-efficient electricity 24 hours a day, seven days a week. The system will undergo extensive testing and demonstration at the Masdar Intitute Solar Platform (MISP), in a desert environment that provides ideal solar conditions to generate full daily cycles of clean energy in combination with solar PV.

Dr. Nicolas Calvet, Assistant Professor, Mechanical Engineering, and Founder & Chair of the MISP, Khalifa University, said, "The Khalifa University"s Masdar Institute Solar Platform provides a convergence of renewable energy research, development and demonstration, and serves as a foundation for the UAE"s ambition to achieve world-leading innovation in clean and renewable energy. The Azelio demonstration project is our flagship project and a success story for the MISP."

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