

Retail store energy storage damascus

While renewable energy offers a clear solution and has streamlined electricity production to some extent, it poses a significant challenge in meeting round-the-clock electricity demands due to its intermittent and variable nature. To bridge this gap, the world requires a transformative solution--a game changer. And ENGIE identified it: energy storage.

Energy storage is set to play a pivotal role in shaping the future of our energy landscape, especially in facilitating the seamless integration of intermittent renewables. Among these solutions, battery-based technologies stand out for their modularity and scalability, making them adaptable to diverse service requirements and client needs. They offer rapid deployment with minimal site constraints and boast superior performance compared to alternative storage methods.

Looking ahead, the battery storage industry stands to gain significantly from the widespread adoption of Electric Vehicles worldwide, leading to cost reductions and enhanced operational efficiency. Additionally, storage serves as a crucial component of ‘Smart Grids,’ leveraging information and communication technology to efficiently incorporate new patterns of energy production and consumption.

While still in its nascent stages, the synergy between renewables and storage systems promises to unlock a broader spectrum of energy services beyond traditional production methods.

Our client, The Abu Dhabi Investment Office (ADIO), in collaboration with the Department of Municipalities and Transport (DMT), partnered with ENGIE Solutions to deliver the emirate's energy- efficient Road Lighting LED public-private partnership (PPP) project.

With ENGIE's Low Carbon Cities solution, we implemented energy-efficient street lighting solutions leverage advanced technologies, such as LED (Light Emitting Diode) lamps, to reduce energy consumption by 74% and minimize electricity costs.

Angers Loire Metropole has 290,000 inhabitants including the city of Angers and 28 other cities located in the western center of France. The city wanted to transition to a smart city, accelerate their energy transition, improve public services for citizens, optimize public services costs and increase the overall attractiveness of the city.

ENGIE implemented the public lighting infrastructure solution that would focus on decarbonization and environmental sustainability with tools for effective management, facilitating data-driven decision-making across various parts of the city.

Uberlândia is the second largest municipality in the state of Minas Gerais in population. The city wanted to



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enhance its public lighting infrastructure to showcase its commitment to technological advancement, environmental consciousness, and reducing costs.

ENGIE financed a street lighting public-private partnership (PPP) model in Uberl?ndia by modernizing its lighting park and implementing smart solutions. The 20-year agreement covers the administrative concession for that modernization, enhanced efficiency, expansion, operation and maintenance of the public lighting network in the municipality. The partnership entails retrofitting of more than 87 street lighting units with LED technology, generating energy savings of at least 49.39%.

In 2020, ENGIE inaugurated the largest solar photovoltaic farm globally, situated in Kadapa, Andhra Pradesh. NTPC Limited, India's foremost electricity and gas distributor, is the esteemed customer. This project is a pivotal component of the National Solar Mission - phase II, initiated by the Government of India in 2010 to expedite solar energy production and achieved a 100 GW solar capacity by 2022.

As the world embraces sustainable and low-carbon energy systems, the integration of renewable energy sources into power grids has become essential. Accompanying this transition is the development of battery storage technology.

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