

Hungary energy storage for peak shaving

Against the backdrop of global energy transformation, Hungarian industrial enterprises are also actively seeking innovative energy management methods to cope with the growing pressure on electricity costs. Recently, SCU provided a GRES-energy storage system to a pencil factory in Hungary and successfully connected it to the grid. This system not only helps enterprises optimize energy use but also brings additional economic benefits to enterprises by taking advantage of the difference between peak and valley electricity prices.

In recent years, Hungary has actively promoted the green transformation of the economy and vigorously developed clean energy. Although nuclear power accounts for half of the country's total power generation, Hungary still hopes to further increase the share of green energy and significantly expand energy storage capacity. The Ministry of Energy aims to deploy 1GWh of energy storage systems by 2025 and strive to increase the proportion of renewable energy in the energy consumption structure from 21% to 29% by 2030.

The GRES-225-100 adopts a grid-connected solution. The pencil factory can store electricity during low-price periods and release electricity during peak-price periods to meet daily operating needs. This not only effectively reduces the company's electricity bills, but also enables it to achieve peak-shaving arbitrage in the electricity market.

The GRES system provided by SCU for the pencil factory can store enough electricity to ensure the stability of the factory's power supply during the production process. The system is combined with the local power grid to save a lot of electricity costs for the pencil factory by charging at night or during periods with lower electricity prices and discharging during periods with higher electricity prices during the day. In addition, the company can also obtain additional economic benefits by participating in the power demand response program.

This innovative energy management method not only improves the operating efficiency of the pencil factory but also reduces the company's dependence on power during peak hours of the power grid, which helps to alleviate the pressure on the power grid. In addition, through the rational use of power resources, the company's overall carbon footprint has also been optimized, making a positive contribution to its sustainable development.

As an efficient and flexible energy storage solution, SCU commercial and industrial energy storage system has been successfully applied in many industrial and commercial scenarios worldwide. For emerging markets such as Hungary, the introduction of energy storage technology can significantly improve the efficiency of corporate electricity use while coping with price fluctuations in the electricity market. With its strong technical strength and rich experience in energy storage projects, SCU provides customized solutions for enterprises to



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help them optimize and manage energy costs.

In the future, as the Hungarian energy storage market matures further, SCU will continue to be committed to providing innovative energy storage solutions for more industries and businesses, helping the development of the local green economy and promoting the process of global energy transformation.

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