Virtual Power Plant

A Virtual Power Plant (VPP) applies advanced Information and Communication Technology (ICT) to integrate and manage distributed renewable energy resources, energy storage systems, generators, and flexible electricity loads, ensuring efficient and optimized energy regulation.

By consolidating small- and medium-scale distributed energy assets to participate in ancillary service programs, VPPs enhance the utilization of idle resources, create additional revenue streams for operators, and actively contribute to the sustainable development of the energy industry.

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Energy Storage System

With extensive experience in the design, implementation, and integration of advanced energy storage systems, we have developed a robust portfolio of successful projects that demonstrate our exceptional capabilities in system integration.

Our Behind-the-Meter (BTM) energy storage systems significantly enhance energy management and operational reliability. These systems support critical functions such as capacity management, load shifting, and meeting renewable energy targets, particularly for energy-intensive industries. Furthermore, the activation of automated scheduling within the energy management system optimizes performance, ensuring efficient and sustainable energy use.

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Green Energy Trading

Through the integration of YFY Group's biomass power generation with external photovoltaic (PV) systems, we ensure a reliable supply of diverse green energy, available either during daytime hours or continuously on a 24/7 basis.

Our tailored solutions are designed to economically optimize green energy portfolios for businesses, enabling cost-effective and efficient energy transitions. In addition, we offer carbon management services to provide a more comprehensive and sustainable pathway toward achieving net-zero emissions.

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Carbon Management

In response to the implementation of Taiwan's carbon fee and the ESG-driven carbon reduction requirements of enterprises, we offer customized carbon management services. ESL establishes "Carbon Accounts" based on client-specific requirements, utilizing automated systems to collect and analyze carbon emission data via an integrated platform. This service provides optimization opportunities, balances the economic advantages of carbon management, and maximizes the value of corporate sustainability and green transformation initiatives.