



Microgrid control vietnam

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Microgrid is system set up to manage distributed energy sources and may include renewable energy such as solar, wind or hydroelectric power. along with other non-renewable sources such as: diesel generators, gas turbines; A microgrid is an independent power network, allowing self-generation of electricity on site and use when needed most.

Today, due to market demands and issues related to sustainable development, the development of new energy sources is increasingly diverse, especially renewable energy such as solar power, wind power, and biomass electricity;so there needs to be a solution to connect these energy sources together and optimize the efficiency of each energy source at each specific time.

The demand for energy and the desire for a sustainable future are increasing, so energy storage is extremely necessary.

Decree 80/2024/ND-CP Vietnam regulating the direct electricity trading mechanism between renewable energy producers and large electricity users was issued on July 3, 2024. This Decree takes effect immediately from the date of promulgation.

Thus, today organizations and businesses in all fields urgently need a solution to switch to microgrid and distributed energy sources to bring financial benefits and sustainable development. Understanding this market need, ESEC has researched and developed the Microgrid Control solution. The solution is designed based on the Microgrid platform architecture from our strategic partners, such as Schneider Electric, ETAP; combined with ESEC's capacity and market understanding.

Benefits of Microgrid Control solution bring:

Thanks to the above efficiencies, Microgrid Control is a long-term solution to save energy costs by optimizing demand, storing electricity and supplying it back to the grid during peak demand periods; Thereby also reducing environmental impacts by integrating renewable energy sources to help organizations and businesses achieve their commitment to sustainable development. In addition, Microgrid Control also helps improve reliability and provides a stable power source if an incident occurs on the grid.

Microgrid Control solutions ESEC provides include:

Energy storage and conversion system (BESS-PCS):

Energy control monitoring system (Microgrid):



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In Vietnam, ESEC has successfully implemented Microgrid Control projects for customers in many fields such as energy, manufacturing, trade… and brought great efficiency to customers’ operations. Microgrid Control helps enhance safe storage capacity in the event of grid outages/incidents in the power supply system and optimally coordinate management of power sources to save costs, reduce emissions while enhancing ability to operate in emergency situations...

East Sea Energy Environment (ESEC) – a technology pioneer in power infrastructure, energy and digital transformation, serving sustainable development strategies. We are proud to be one of the first units to provide microgrid solutions for the Vietnamese market. After more than 10 years of development, the ESEC team increasingly understands the needs and changes of the Vietnamese industrial market in the new era, which is why ESEC always brings the most advanced and suitable technology solutions to accompanying customers with the goal of sustainable development.

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