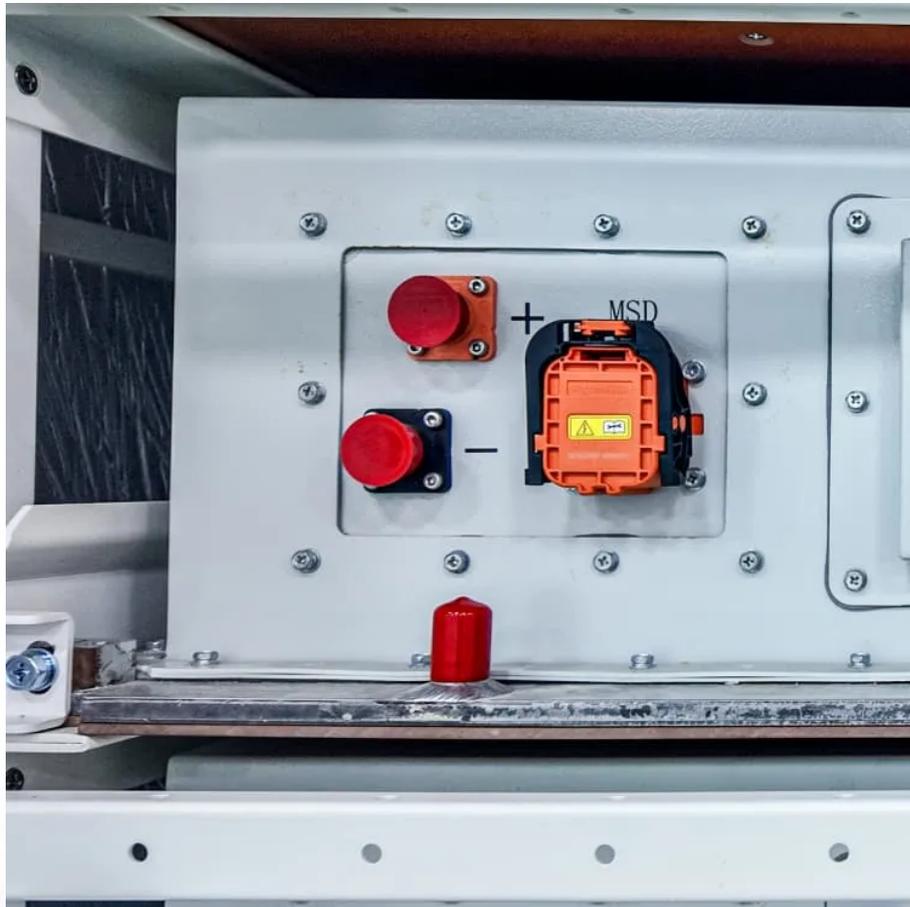


Pristina Virtual Power Plant Energy Storage Project





Overview

The project, considered the world's largest solar-storage project, will install 3.5GW of solar photovoltaic capacity and a 4.5GWh battery storage system. The project has commenced in November 2024. What is a virtual power plant?

The proposed virtual power plant integrates photovoltaic (PV) and wind turbine (WT) systems into a microgrid topology, facilitating efficient energy management across generation, storage, distribution, and consumption components. Communication systems enable real-time monitoring and control for optimal system operation.

Can virtual power plants improve grid stability and reliability?

Virtual power plants (VPPs), integrating multiple distributed energy resources, offer a promising solution for enhancing grid stability and reliability . However, challenges persist in effectively managing the variability of renewable energy generation and ensuring grid stability . Existing research highlights several critical shortcomings:.

What challenges do virtual power plants face?

The transition to renewable energy sources and distributed energy generation (DG) has spurred the global evolution of energy production methods. However, virtual power plants (VPPs) face challenges due to fluctuations in renewable energy sources (RES) production, such as those from photovoltaics and wind turbines.

Can a hybrid energy storage system improve grid stability?

By demonstrating the feasibility and effectiveness of a Hybrid Energy Storage System (HESS) in a virtual power plant setting, we provide valuable insights into the role of energy storage in enhancing grid stability, optimizing energy management, and promoting renewable energy uptake.



Pristina Virtual Power Plant Energy Storage Project



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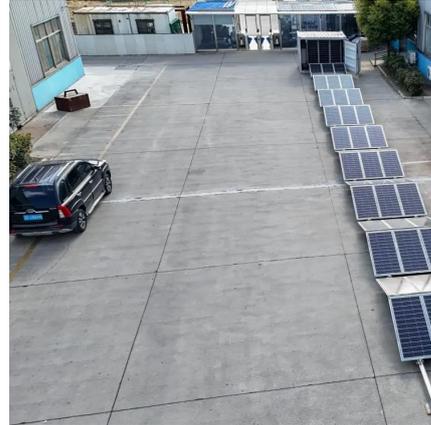
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A systematic review of Virtual Power Plant configurations ...

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