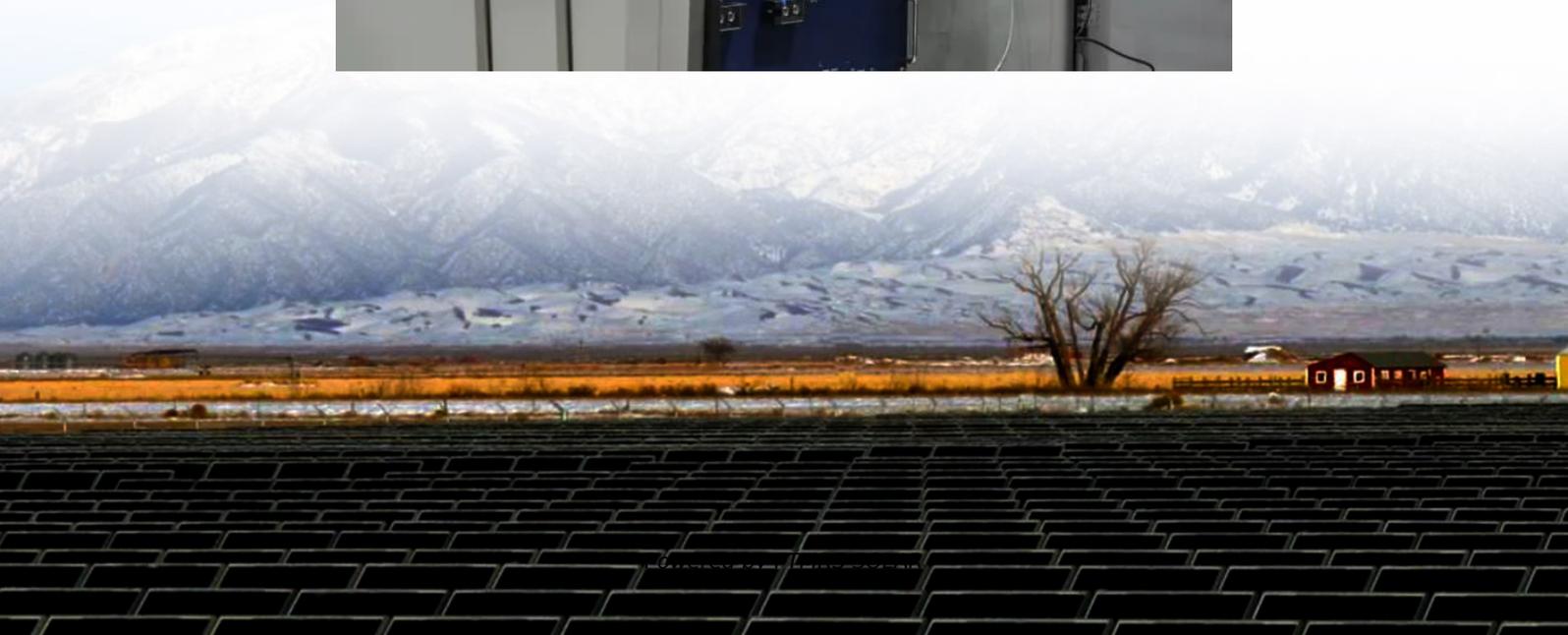
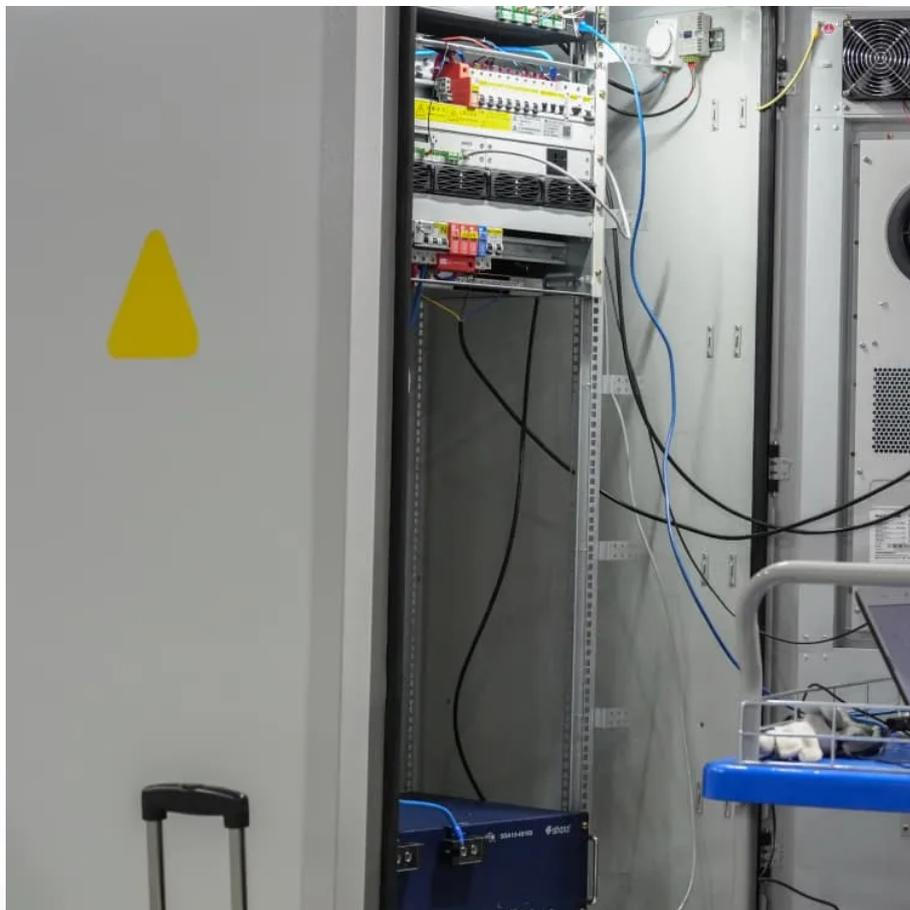


Pristina Solar Intelligent Control System





Overview

Renewable energy systems, such as photovoltaic (PV) systems, have become increasingly significant in response to the pressing concerns of climate change and the imperative to mitigate carbon emissions.

How can an ANN control the energy management of PV systems?

The energy management of PV systems is an important issue when studying renewable energy. One of the methods to control this process is by using an ANN. ANN-based controllers are gaining popularity due to their ability to adapt to different scenarios and enhance energy conversion efficiency.

What is discrete PID controller Simulink model?

Discrete PID controller Simulink model. Integrating renewable energy sources into power grids and buildings is crucial for sustainable energy use. In this context, PV systems have become popular due to their proven effectiveness in generating electricity from solar radiation.

What is a solar PV system?

It is the system directly connected to the electricity grid. It consists of PV panels, one or more inverters, a distribution panel, an electric load, a meter, and an electricity network. The solar photovoltaic (SPV) cell converts solar energy into electrical energy. Electricity can be defined as the flow of electrons.

What is a regression model for solar power & battery SoC?

Through accurate predictions of energy generation, systems can be designed to handle fluctuations and have a more stable and reliable output. Regression models for solar output power and battery SOC have been built using MATLAB's ANN ToolBox, with the input values being measured daily.



Pristina Solar Intelligent Control System

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