

Design of the power supply system for Tien Bo apartment building.

Tran Van Tung

Abstract: This topic focuses on designing and implementing a smart power supply system for the Tien Bo apartment building, aiming to meet energy-saving needs and ensure electrical safety. Through theoretical research on renewable energy technology and power management, combined with practical surveys at apartment complexes, the topic develops an integrated solution combining solar panel systems and energy storage, while deploying an automatic monitoring and control system. The application of these advanced technologies not only contributes to improving electricity usage efficiency but also creates a sustainable model for the apartment building in the future.

Keywords: Smart power supply, renewable energy, solar panel system, power management, apartment building