

Key Technologies and Applications of Urban "Photovoltaic-Storage-Charging-Swapping" Integrated Smart Energy System

The integrated intelligent charging/swapping platform of urban "Photovoltaic-Storage-Charging-Swapping" is an integrated smart energy system composed of photovoltaic, energy storage, charging station, swapping station, etc. The system adopts advanced technologies such as Cloud Computing, Big Data, Internet of Things, Mobile Internet and Artificial Intelligent to realize rapid and intelligent orderly charging/swapping of large-scale electric vehicles through advanced functions such as collaborative control, operation optimization and energy management of each subsystem. In addition, the system achieves high-efficiency, economical, smart and green energy supply through the bilateral flexible interaction with the supply and demand of the smart grid, which has great significance for promoting the integration and rapid development of electric vehicles and urban Energy Internet.