

Multi-Mode Charging and Discharging Control Method and System for Charging Piles

Abstract

Provided are a multi-mode charging and discharging control method and system for charging piles, relating to the technical field of charging and discharging control. The method comprises: configuring charging pile charging and discharging modes; obtaining a peak value period, an flat value period, and a valley value period; in the peak value period, starting a peak mode, and generating a charging pile bidirectional discharging strategy; in the flat value period, starting a flat mode, executing charging pile linkage discharging optimization, and generating a linkage discharging strategy to perform charging pile discharging control; and in the valley value period, starting a valley mode, executing charging pile charging optimization, and generating a charging pile charging strategy to perform charging pile charging control. The technical problem of poor scenario adaptability caused by lack of analysis and adjustment of a power grid load in the related art is solved, adaptive adjustment of charging and discharging control is achieved on the basis of a power grid load scenario, and the technical effect of improving the scenario adaptability is achieved.

Figure 1