

TITLE:
METHOD FOR SCHEDULING CHARGING AND DISCHARGING AND CHARGE-
DISCHARGE SYSTEM

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ABSTRACT

Disclosed is a method for scheduling charging and discharging. The method includes:
obtaining vehicle information about multiple electric vehicles, which includes departure
time and state of charging with each electric vehicle corresponding to a charge-discharge
10 device; obtaining system information which includes a grid-to-vehicle profit, a vehicle-to-
grid profit, and a vehicle-to-vehicle profit; establishing a fitness function according to the
vehicle information and the system information; executing a bio-inspired algorithm to
determine a charge-discharge operation for each electric vehicle on the corresponding
charge-discharge device at each time interval according to the fitness function; and applying
15 the corresponding charge-discharge operation to the corresponding electric vehicle by the
charge-discharge devices.

FIG. 3

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