A Control Method of Stationary and On-board Energy Storage Systems for Use of Renewable Energy

Takeshi KONISHI　Takamitsu OGATA　Tamanosuke OIDE　Tatsuhito SAITO

The installation of renewable energy is accelerating to achieve the carbon neutrality in 2050. This paper proposes a control system for integrating charge/discharge of stationary and on-board energy storage systems in the DC electrified railway. By simulating the performance of a train operation power, we can obtain the effect of the demand response and effective use of renewable energy by adopting the control system.