

A B S T R A C T

An energy management server according to an embodiment includes an estimation unit, a scheduler, an acquisition unit, a monitoring unit, a receiving unit and a setting unit. The estimation unit calculates an estimated value of an energy demand in a building in which an electric appliance is installed. The scheduler creates an operation schedule of the electric appliance based on the estimated value. The acquisition unit acquires an actual value of the energy demand. The monitoring unit monitors an error between the estimated value and the actual value. The receiving unit receives a demand response signal containing information which prompts suppression of energy consumption in a designated period. The setting unit sets a threshold related to the demand response signal. The estimation unit recalculates the estimated value if the error is equal or more than the threshold. The scheduler reforms the operation schedule based on the recalculated estimated value.