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Abstract

According to an embodiment, an energy management server includes an estimation unit, condition setting unit, calculation unit, reception unit, and control unit. The estimation unit estimates an energy demand in a building where electrical apparatuses including an energy consumption apparatus and energy storage apparatus are equipped based on data associated with the electrical apparatuses. The condition setting unit sets a plurality of energy consumption suppression conditions. The calculation unit calculates an operation schedule of the electrical apparatuses which can optimize an energy balance in the building based on the energy demand and suppression condition. The reception unit receives a demand response signal including an energy consumption suppression condition. The control unit controls the electrical apparatuses based on an operation schedule calculated based on the suppression condition corresponding to that included in the demand response signal.

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