C L A I M S

1. An energy management server comprising:

an estimation unit configured to calculate an estimated value of an energy demand in a building in which an electric appliance is installed;

a scheduler configured to create an operation schedule of the electric appliance based on the estimated value of the energy demand;

an acquisition unit configured to acquire an actual value of the energy demand;

a monitoring unit configured to monitor an error between the estimated value of the energy demand and the actual value of the energy demand;

a receiving unit configured to receive a demand response signal containing information which prompts suppression of energy consumption in a designated period; and

a setting unit configured to set a threshold related to the demand response signal,

wherein the estimation unit recalculates the estimated value of the energy demand if the error is equal or more than the threshold, and

the scheduler reforms the operation schedule based on the recalculated estimated value of the energy demand.

2. The energy management server according to claim 1, wherein the threshold is variably set with respect to time.

3. The energy management server according to claim 1, wherein the threshold is set lower in the designated period than that in other periods.

4. The energy management server according to claim 1, further comprising a selection unit configured to select one of a power demand and a received power amount as the energy demand.

5. The energy management server according to claim 1, further comprising a determination unit configured to determine whether to respond to the demand response signal.

6. An energy management method applicable to a server which manages energy in a building in which an electric appliance is installed, the method comprising, in the server,

calculating an estimated value of an energy demand in the building,

creating an operation schedule of the electric appliance based on the estimated value of the energy demand,

acquiring an actual value of the energy demand, and

monitoring an error between the estimated value of the energy demand and the actual value of the energy demand,

the calculating comprising recalculating the estimated value of the energy demand if the error is equal or more than a threshold set in association with a demand response signal containing information which prompts suppression of energy consumption in a designated period, and

the creating comprising reforming the operation schedule based on the recalculated estimated value of the energy demand.

7. The energy management method according to claim 6, wherein the threshold is variably set with respect to time.

8. The energy management method according to claim 6, wherein the threshold is set lower in the designated period than that in other periods.

9. The energy management method according to claim 6, wherein the server further selects one of a power demand and a received power amount as the energy demand.

10. The energy management method according to claim 6, wherein the server further determines whether to respond to the demand response signal.

11. A program including an instruction for causing a computer to execute an energy management method cited in any one of claims 6 to 10.