CLAIMS

1. An energy management system comprising:

a management apparatus configured to manage an energy consumption amount in a building equipped with a plurality of energy consumption apparatuses; and

an energy consumption amount reduction request apparatus configured to transmit a reduction request for reducing the energy consumption amount in the building to the management apparatus,

wherein the management apparatus includes

a reception unit configured to receive the reduction request,

an operation state control unit configured to control an operation state of a control target apparatus among the plurality of energy consumption apparatuses to reduce the energy consumption amount in the building,

an information acquisition unit configured to acquire information indicating a designated apparatus designated as the control target apparatus among the plurality of energy consumption apparatuses by a user, and

a storage unit configured to store the information acquired by the information acquisition unit, and

wherein when the reception unit receives the reduction request, the information acquisition unit

acquires the information indicating the designated apparatus designated by the user on a screen that displays an expected power-saving amount when the designated apparatus is controlled as the control target apparatus, the storage unit stores the information acquired by the information acquisition unit, and the operation state control unit reads the information stored in the storage unit, specifies the designated apparatus based on the information, and controls the operation state of the specified designated apparatus.

2. The energy management system according to claim 1,

wherein the information acquisition unit acquires the information indicating the designated apparatus designated as the control target apparatus among the plurality of energy consumption apparatuses by the user and a control condition set in regard to the operation state of the designated apparatus by the user, and

wherein when the reception unit receives the reduction request, the information acquisition unit acquires the information indicating the designated apparatus designated by the user on the screen that displays an expected power-saving amount when the designated apparatus is controlled as the control target apparatus under the control condition and indicating the

control condition set by the user on the screen, the storage unit stores the information indicating the designated apparatus and the control condition acquired by the information acquisition unit, and the operation state control unit reads the information stored in the storage unit, specifies the designated apparatus and the control condition based on the information, and controls the operation state of the specified designated apparatus under the specified control condition.

3. The energy management system according to claim 1 or 2,

wherein the management apparatus is a home server installed in a house which is the building,

wherein the energy consumption amount reduction request apparatus is an external server installed outside the house,

wherein the external server is able to communicate with the home server and a third server managed by an energy supply business company supplying energy to the house via a network, and

wherein when the third server commands the external server to transmit the reduction request via the network, the external server transmits the reduction request to the home server via the network.

4. The energy management system according to claim 3, wherein the management apparatus further includes

a calculation unit configured to calculate degree of change at a time of change in an energy consumption amount in the house due to controlling the operation state of the control target apparatus by the operation state control unit, and

a data transmission unit configured to transmit data indicating the degree of change calculated by the calculation unit to the external server.

5. The energy management system according to claim 4,

wherein the external server includes a score granting unit configured to grant a score according to the degree of change calculated by the calculation unit to the user, and

wherein when the score granting unit receives data indicating the degree of change calculated by the calculation unit via the network, the score granting unit calculates a score according to the degree of change based on the data and grants the score to the user.

6. The energy management system according to claim 4 or 5,

wherein a sensor configured to measure an energy

consumption amount in the house and output a signal according to a result of the measurement is provided, and

wherein based on the signal output by the sensor, the calculation unit calculates, as the degree of change, a difference in the energy consumption amount in the house per unit time before and after the operation state control unit controls the operation state of the control target apparatus.

7. A management apparatus for managing an energy consumption amount in a building equipped with a plurality of energy consumption apparatuses, the management apparatus comprising:

a reception unit configured to receive a reduction request for reducing an energy consumption amount in the building from an energy consumption amount reduction request apparatus transmitting the reduction request to the management apparatus;

an operation state control unit configured to control an operation state of a control target apparatus among the plurality of energy consumption apparatuses to reduce the energy consumption amount in the building;

an information acquisition unit configured to acquire information indicating a designated apparatus designated as the control target apparatus among the plurality of energy

consumption apparatuses by a user; and

a storage unit configured to store the information acquired by the information acquisition unit,

wherein when the reception unit receives the reduction request, the information acquisition unit acquires the information indicating the designated apparatus designated by the user on a screen that displays an expected power-saving amount when the designated apparatus is controlled as the control target apparatus, the storage unit stores the information acquired by the information acquisition unit, and the operation state control unit reads the information stored in the storage unit, specifies the designated apparatus based on the information, and controls the operation state of the specified designated apparatus.

CLAIMS

1. An energy management system comprising:

a management apparatus configured to manage an energy consumption amount in a building equipped with a plurality of energy consumption apparatuses; and

an energy consumption amount reduction request apparatus configured to transmit a reduction request for reducing the energy consumption amount in the building to the management apparatus,

wherein the management apparatus includes

a reception unit configured to receive the reduction request,

an operation state control unit configured to control an operation state of a control target apparatus among the plurality of energy consumption apparatuses to reduce the energy consumption amount in the building,

an information acquisition unit configured to acquire information indicating a designated apparatus designated as the control target apparatus among the plurality of energy consumption apparatuses by a user, and

a storage unit configured to store the information acquired by the information acquisition unit, and

wherein when the reception unit receives the reduction request, the information acquisition unit

acquires the information indicating the designated apparatus designated by the user on a screen that displays an expected power-saving amount when the designated apparatus is controlled as the control target apparatus, the storage unit stores the information acquired by the information acquisition unit, and the operation state control unit reads

the information stored in the storage unit, specifies the designated apparatus based on the information, and controls the operation state of the specified designated apparatus.

2. The energy management system according to claim 1,

wherein the information acquisition unit acquires the information indicating the designated apparatus designated as the control target apparatus among the plurality of energy consumption apparatuses by the user and a control condition set in regard to the operation state of the designated apparatus by the user, and

~~wherein the storage unit stores the information acquired by the information acquisition unit and indicating the designated apparatus and the control condition, and~~

wherein when the reception unit receives the reduction request, the information acquisition unit acquires the information indicating the designated apparatus designated by the user on the screen that displays an expected power-saving amount when the designated apparatus is controlled as the control target apparatus under the control condition and indicating the control condition set by the user on the screen, the storage unit stores the information indicating the designated apparatus and the control condition acquired by the information acquisition unit, and the operation state

control unit reads the information stored in the storage unit, specifies the designated apparatus and the control condition based on the information, and controls the operation state of the specified designated apparatus under the specified control condition.

3. The energy management system according to claim 1 or 2,

wherein the management apparatus is a home server

installed in a house which is the building,

wherein the energy consumption amount reduction request apparatus is an external server installed outside the house,

wherein the external server is able to communicate with the home server and a third server managed by an energy supply business company supplying energy to the house via a network, and

wherein when the third server commands the external server to transmit the reduction request via the network, the external server transmits the reduction request to the home server via the network.

4. The energy management system according to claim 3, wherein the management apparatus further includes

a calculation unit configured to calculate degree of change at a time of change in an energy consumption amount in the house due to controlling the operation state of the control target apparatus by the operation state control unit, and

a data transmission unit configured to transmit data indicating the degree of change calculated by the calculation unit to the external server.

5. The energy management system according to claim 4,

wherein the external server includes a score granting unit configured to grant a score according to the degree of change calculated by the calculation unit to the user, and

wherein when the score granting unit receives data indicating the degree of change calculated by the calculation unit via the network, the score granting unit calculates a score according to the degree of change based on the data and grants the score to the user.

6. The energy management system according to claim 4 or 5,

wherein a sensor configured to measure an energy consumption amount in the house and output a signal according to a result of the measurement is provided, and

wherein based on the signal output by the sensor, the calculation unit calculates, as the degree of change, a difference in the energy consumption amount in the house per unit time before and after the operation state control unit controls the operation state of the control target apparatus.

7. A management apparatus for managing an energy consumption amount in a building equipped with a plurality of energy consumption apparatuses, the management apparatus comprising:

a reception unit configured to receive a reduction request for reducing an energy consumption amount in the building from an energy consumption amount reduction request apparatus transmitting the reduction request to the management apparatus;

an operation state control unit configured to control an operation state of a control target apparatus among the plurality of energy consumption apparatuses to reduce the energy consumption amount in the building;

an information acquisition unit configured to acquire information indicating a designated apparatus designated as the control target apparatus among the plurality of energy consumption apparatuses by a user; and

a storage unit configured to store the information acquired by the information acquisition unit,

wherein when the reception unit receives the reduction request, the information acquisition unit acquires the information indicating the designated apparatus designated by the user on a screen that displays an expected power-saving amount when the designated apparatus is controlled as the control target apparatus, the storage unit stores the information acquired by the information acquisition unit, and the operation state control unit reads the information stored in the storage unit, specifies the designated apparatus based on the

information, and controls the operation state of the specified designated apparatus.