CLAIMS

1. An equipment selection assistance apparatus comprising:

an operation record information acquisition means to acquire operation record information indicating an operation record of each piece of equipment installed in a facility;

an operation model generation means to generate, for each piece of equipment, an operation model indicating an operating state of each piece of equipment in a predetermined period, based on the operation record information;

a selection processing means to select control target equipment to be a target of demand control from pieces of equipment installed in the facility, based on operation models generated by the operation model generation means; and

a selection reference model setting means to set a selection reference model to be compared with each operation model generated by the operation model generation means,

wherein the selection processing means automatically selects the control target equipment, depending on a result of comparison between each operation model generated by the operation model generation means and the selection reference model set by the selection reference model setting means.

2. An equipment selection assistance apparatus comprising:

an operation record information acquisition means to acquire operation record information indicating an operation record of each piece of equipment installed in a facility;

an operation model generation means to generate, for each piece of equipment, an operation model indicating an operating state of each piece of equipment in a predetermined period, based on the operation record information;

a selection processing means to select control target equipment to be a target of demand control from pieces of equipment installed in the facility, based on operation models generated by the operation model generation means;

a selection reference model setting means to set a selection reference model to be compared with each operation model generated by the operation model generation means, and

a display means to display operation models generated by the operation model generation means,

wherein the selection processing means selects, as the control target equipment, equipment corresponding to an operation model selected by a user from the displayed operation models.

3. The equipment selection assistance apparatus according to claim 2, further comprising:

a cluster model setting means to set, as a cluster model, an operation model corresponding to each cluster generated by classifying operation models generated by the operation model generation means according to similarities into a plurality of clusters; and

wherein the display means displays cluster models set by the cluster model setting means,

wherein the selection processing means selects, as the control target equipment, one or more pieces of equipment corresponding to an operation model included in a cluster model selected by the user from the displayed cluster models.

4. The equipment selection assistance apparatus according to claim 1,

wherein as a result of comparison between operation record information before and operation record information after the control target equipment selected by the selection processing means is demand-controlled, when it is determined that a power reduction effect is obtained by selecting the control target equipment as the target of demand control, the selection reference model setting means sets a selection reference model used in selecting the control target equipment as a selection reference model for selecting next control target equipment.

5. The equipment selection assistance apparatus according to claim 1,

wherein the selection reference model setting means sets, as a selection reference model, a selection reference model used in selecting control target equipment with which a power reduction effect has been obtained in another facility.

6. The equipment selection assistance apparatus according to claim 1, further comprising

an acceptance means to accept a condition for comparison between an operation model and a selection reference model to be performed by the selection processing means,

wherein the selection processing means selects control target equipment by comparing each operation model with the selection reference model in accordance with the condition for comparison.

7. The equipment selection assistance apparatus according to claim 1, further comprising

an equipment information acquisition means to acquire equipment information in which pieces of equipment that operate in cooperation are associated with each other,

wherein when a plurality of pieces of control target equipment are selected, the selection processing means refers to the equipment information to identify pieces of equipment respectively associated with the plurality of pieces of control target equipment, assigns priorities to the plurality of

pieces of control target equipment based on operation models of the identified pieces of equipment, and narrows down the plurality of pieces of control target equipment according to the priorities.

8. The equipment selection assistance apparatus according to claim 1, wherein the selection reference model setting means sets a selection reference model based on a change in the number of occupants in the facility acquired from an entrance and exit management system.

9. The equipment selection assistance apparatus according to claim 1,

wherein the operational record of each piece of equipment is at least one of an operating time, surplus power, and power consumption.

10. A program for causing a computer to function as:

an operation record information acquisition means to acquire operation record information indicating an operation record of each piece of equipment installed in a facility;

an operation model generation means to generate, for each piece of equipment, an operation model indicating an operating state of each piece of equipment in a predetermined period, based on the operation record information;

a selection reference model setting means to set a selection reference model to be compared with each operation model generated by the operation model generation means, and

a selection processing means to select control target equipment to be a target of demand control from pieces of equipment installed in the facility, depending on a result of comparison between each operation model generated by the operation model generation means and the selection reference model set by the selection reference model setting means.