CLAIMS

[Claim 1]

A generating device that generates control information for controlling facility equipment of a consumer, the generating device comprising:

a power amount charge information acquisition unit that acquires information of a power amount charge unit price that fluctuates;

a power usage information acquisition unit that acquires information of power usage of the consumer; and

a control information generating unit that, on a basis of the power amount charge unit price in an object interval that is an interval in which control of the facility equipment is performed and information of power usage of the consumer in an interval after the object interval, generates control information for the facility equipment of the consumer in the object interval.

[Claim 2]

The generating device according to Claim 1, wherein the control information generating unit generates the control information to control the facility equipment so as to suppress power usage in the object interval in a case in which the power amount charge unit price in the object interval satisfies a predetermined condition.

[Claim 3]

The generating device according to Claim 2, wherein the control information generating unit does not generate the control information to control the facility equipment so as to suppress power usage in the object interval in a case in which the power usage of the consumer in an interval after the object interval is expected to exceed a reference power, even in a case in which the power amount charge unit price in the object interval satisfies the predetermined condition.

[Claim 4]

The generating device according to Claim 2 or 3, wherein, in a case in which the power usage of the consumer in an interval after the object interval is expected to exceed a reference power and in which the power amount charge unit price in an interval immediately prior to the object interval is no greater than a reference unit price, the control information generating unit generates control information to implement preliminary operation of the facility equipment in the interval immediately prior to the object interval.

[Claim 5]

The generating device according to Claim 4, wherein, with regard to air conditioning equipment included in the facility equipment, the control information generating unit generates control information to implement preliminary cooling operation or preliminary heating operation in an interval immediately prior to the object interval, in accordance with operation to be implemented in an interval next after the object interval.

[Claim 6]

The generating device according to Claim 1, further comprising:

a contract charge information acquisition unit that acquires information of a contract charge unit price, which is used in conjunction with information of greatest demand power of the consumer to set a base fee, wherein

the control information generating unit generates the control information on a basis of an electricity charge of the consumer over a certain period, which is determined from the power amount charge unit price, information of power usage of the consumer, and the contract charge unit price.

[Claim 7]

A system, comprising:

a generating device that generates control information for controlling facility

equipment of a consumer; and

facility equipment that accepts the control information generated by the generating device and performs action,

the generating device including

a power amount charge information acquisition unit that acquires information of a power amount charge unit price that fluctuates,

a power usage information acquisition unit that acquires information of power usage of the consumer, and

a control information generating unit that, on a basis of the power amount charge unit price in an object interval that is an interval in which control of the facility equipment is performed and information of power usage of the consumer in an interval after the object interval, generates control information for the facility equipment of the consumer in the object interval.

[Claim 8]

A program that causes a computer to function as:

power amount charge information acquisition section that acquires information of a power amount charge unit price that fluctuates;

power usage information acquisition section that acquires information of power usage of a consumer; and

control information generating section that, on a basis of the power amount charge unit price in an object interval that is an interval in which control of the facility equipment of the consumer is performed and information of power usage of the consumer in an interval after the object interval, generates control information for the facility equipment of the consumer in the object interval.

CLAIMS

[Claim 1]

A generating device that generates control information for controlling facility equipment of a consumer, the generating device comprising:

a power amount charge information acquisition unit that acquires information of a power amount charge unit price that fluctuates;

a power usage information acquisition unit that acquires information of power usage of the consumer; and

a control information generating unit that, on a basis of the power amount charge unit price in an object interval that is an interval in which control of the facility equipment is performed and information of entire power usage of sets of facility equipment of the consumer in an interval after the object interval, generates control information for the facility equipment of the consumer in the object interval.

[Claim 2]

The generating device according to Claim 1, wherein the control information generating unit generates the control information to control the facility equipment so as to suppress power usage in the object interval in a case in which the power amount charge unit price in the object interval satisfies a predetermined condition.

[Claim 3]

The generating device according to Claim 2, wherein the control information generating unit does not generate the control information to control the facility equipment so as to suppress power usage in the object interval in a case in which the power usage of the consumer in an interval after the object interval is expected to exceed a reference power, even in a case in which the power amount charge unit price in the object interval satisfies the predetermined condition.

[Claim 4]

The generating device according to Claim 2 or 3, wherein, in a case in which the power usage of the consumer in an interval after the object interval is expected to exceed a reference power and in which the power amount charge unit price in an interval immediately prior to the object interval is no greater than a reference unit price, the control information generating unit generates control information to implement preliminary operation of the facility equipment in the interval immediately prior to the object interval.

[Claim 5]

The generating device according to Claim 4, wherein, with regard to air conditioning equipment included in the facility equipment, the control information generating unit generates control information to implement preliminary cooling operation or preliminary heating operation in an interval immediately prior to the object interval, in accordance with operation to be implemented in an interval next after the object interval.

[Claim 6]

The generating device according to Claim 1, further comprising:

a contract charge information acquisition unit that acquires information of a contract charge unit price, which is used in conjunction with information of greatest demand power of the consumer to set a base fee, wherein

the control information generating unit generates the control information on a basis of an electricity charge of the consumer over a certain period, which is determined from the power amount charge unit price, information of power usage of the consumer, and the contract charge unit price.

[Claim 7]

A system, comprising:

a generating device that generates control information for controlling facility

equipment of a consumer; and

facility equipment that accepts the control information generated by the generating device and performs action,

the generating device including

a power amount charge information acquisition unit that acquires information of a power amount charge unit price that fluctuates,

a power usage information acquisition unit that acquires information of power usage of the consumer, and

a control information generating unit that, on a basis of the power amount charge unit price in an object interval that is an interval in which control of the facility equipment is performed and information of entire power usage of sets of facility equipment of the consumer in an interval after the object interval, generates control information for the facility equipment of the consumer in the object interval.

[Claim 8]

A program that causes a computer to function as:

power amount charge information acquisition section that acquires information of a power amount charge unit price that fluctuates;

power usage information acquisition section that acquires information of power usage of a consumer; and

control information generating section that, on a basis of the power amount charge unit price in an object interval that is an interval in which control of the facility equipment of the consumer is performed and information of entire power usage of sets of facility equipment of the consumer in an interval after the object interval, generates control information for the facility equipment of the consumer in the object interval.