What is claimed is:

~~1. A power distribution system comprising:~~

~~a direct current (DC) power source;~~

~~an appliance selection unit for selecting one or more appliances that can be operated with an available power of the DC power source; and~~

~~a display unit for displaying results of selection by the appliance selection unit.~~

~~2~~1. ~~The~~ A power distribution system ~~of claim 1, further~~ comprising:

a direct current (DC) power source;

an appliance selection unit for selecting one or more appliances that can be operated with an available power of the DC power source;

a display unit for displaying results of selection by the appliance selection unit such that a user determines an appliance to be used;

a power supply unit for supplying power to a plurality of appliances using a power supplied from the DC power source;

an available power detection unit for detecting an amount of power that can be supplied from the DC power source; and

a power information storage unit for storing information about a power consumption of each appliance,

wherein the DC power source includes at least one of

a secondary battery and a solar cell, and

wherein the appliance selection unit selects one or more appliances that can be operated with the available power of the DC power source, based on the available power of the DC power source and the information about the power consumption of each appliance.

~~3~~2. The power distribution system of claim ~~2~~ 1, wherein:

the DC power source includes only the secondary battery,

the available power detection unit detects a residual capacity of the secondary battery, and

the appliance selection unit selects one or more appliances that can be operated with the residual capacity of the secondary battery, based on the residual capacity of the secondary battery and the information about the power consumption of each appliance.

~~4~~3. The power distribution system of claim ~~2~~ 1, wherein:

the DC power source includes the secondary battery and the solar cell,

the available power detection unit detects a residual capacity of the secondary battery and a power generated by the solar cell, and

the appliance selection unit selects one or more appliances that can be operated with the residual capacity of the secondary battery and the power generated by the solar cell, based on a sum of the residual capacity of the

secondary battery and the power generated by the solar cell and the information about the power consumption of each appliance.

~~5~~4. The power distribution system of any one of claims ~~2~~ 1 to ~~4~~ 3, wherein the appliance selection unit selects appliances, each of which can be operated with the available power of the DC power source.

~~6~~5. The power distribution system of claim ~~5~~ 4, wherein the display unit displays appliances selected by the appliance selection unit in descending order of power consumption.

~~7~~6. The power distribution system of any one of claims ~~2~~ 1 to ~~4~~ 3, further comprising a manipulation unit for allowing a user to designate a plurality of appliances,

wherein the appliance selection unit selects, from the appliances designated by the manipulation unit, a combination of appliances that can be operated with the available power of the DC power source.

~~8~~7. The power distribution system of claim ~~7~~ 6, wherein the appliance selection unit selects all combinations of appliances that can be operated with the available power of the DC power source.

~~9~~8. The power distribution system of claim ~~7~~ 6, wherein

the appliance selection unit selects, from the combinations of appliances that can be operated with the available power of the DC power source, a combination of appliances of which a sum of power consumption is highest.

~~10~~9. The power distribution system of any one of claims ~~2~~ 1 to ~~9~~ 8, further comprising a proposal unit for creating a proposal that appliances, which are not selected by the appliance selection unit as the appliances that can be operated with the available power of the DC power source, be operated with night-time power of the commercial power source, and outputting the proposal to the display unit,

wherein the display unit displays the proposal.

~~11~~10. The power distribution system of any one of claims ~~2~~ 1 to ~~10~~ 9, wherein the information about the power consumption of each appliance, stored in the power information storage unit, is information generated based on a history of power consumed when each appliance is operated.