{CLAIMS}

1. A region energy management device that is disposed in a region including two or more consumers each including at least a power supply equipment connected to a power system and a power load that receives power supply from the power supply equipment, and a charging/discharging device that charges and discharges a storage battery installed in a mobile body, and is connected directly or indirectly to energy management devices of each of the two or more consumers and an energy management device of the mobile body and able to communicate data with the energy management devices of each of the two or more consumers and the energy management device of the mobile body, wherein the region energy management device calculates an amount of power to be interchanged between the two or more consumers, which is based on a storage battery remaining level distribution indicating a relationship between a position of each of a storage battery installed as the power supply equipment in each of the two or more consumers and the storage battery installed in the mobile body, that are present in the region at each time and a remaining level of the storage battery at each time, and excessive power and deficient power of each of the two or more consumers at each time and a target indicator of the region at each time in a case where each of the two or more consumers implements an operation plan for the power supply equipment to satisfy a target indicator of each of the two or more consumers.

2. The region energy management device according to claim 1, comprising:

a remaining level distribution prediction unit that predicts the storage battery remaining level distribution in the region, which

includes a consumer storage battery remaining level distribution indicating a relationship between a position of the storage battery installed as the power supply equipment in each of the two or more consumers at each time and a remaining level of the storage battery at each time and a mobile body side storage battery remaining level distribution indicating a relationship between a position of the storage battery installed in the mobile body at each time and a remaining level of the storage battery at each time; and

a region operation planning unit that calculates, based on the amount of power to be interchanged between the two or more consumers, power to be output by each of the two or more consumers at each time and power to be received by each of the two or more consumers at each time.

3. The region energy management device according to claim 2, wherein both information indicating a relationship between a position of the storage battery installed as the power supply equipment in each of the two or more consumers at each time and a remaining level of the storage battery at each time, and information indicating a relationship between the storage battery installed in the mobile body at each time and a remaining level of the storage battery at each time are reflected in the storage battery remaining level distribution.

4. The region energy management device according to claim 1, wherein the target indicator of the region is energy cost, CO_2 emissions, or adjustment power to be provided.

5. The region energy management device according to claim 1, wherein the power interchange between each of the two or more

consumers is performed by power interchange via a power transmission and distribution line of the power system connected to the two or more consumers and/or power interchange using the mobile body installed with the storage battery.

6. The region energy management device according to claim 1, wherein when adjustment power is to be procured by the region energy management device from each of the two or more consumers, the region energy management device determines a ratio of a storage battery capacity for adjustment power to a total storage battery capacity of the storage battery installed as the power supply equipment in each of the two or more consumer based on an operation plan for the power supply equipment included in each of the two or more consumer at which the mobile body is present.

7. The region energy management device according to claim 1, wherein the mobile body installed with the storage battery is a vehicle that is able to move using power of the storage battery installed in the mobile body as a power source.

8. The region energy management device according to claim 1, wherein the energy management device of the mobile body charges and discharges the storage battery installed in the mobile body in accordance with an instruction from the region energy management device or the energy management devices of the two or more consumers.

9. The region energy management device according to claim 1, wherein a remaining storage battery level of the storage battery that is predicted based on a traveling plan and a charging/discharging plan for the storage battery installed in the mobile body is input to

the region energy management device from the energy management device of the mobile body.

10. The region energy management device according to claim 1, wherein the deficient power or requested power at each time, a predicted value of a target indicator for the power at each time, surplus power or power that can be provided at each time, and a predicted value of a target indicator for the power at each time are input to the region energy management device from each of the energy management devices of the two or more consumers.

11. A region energy management method by a region energy management device that is disposed in a region including two or more consumers each including at least a power supply equipment connected to a power system and a power load that receives power supply from the power supply equipment, and a charging/discharging device that charges and discharges a storage battery installed in a mobile body, and is connected directly or indirectly to energy management devices of each of the two or more consumers and an energy management device of the mobile body and able to communicate data with the energy management devices of each of the two or more consumers and the energy management device of the mobile body, the method comprising causing the region energy management device to perform a process of calculating an amount of power to be interchanged between the two or more consumers, based on a storage battery remaining level distribution indicating a relationship between a position of each of a storage battery installed as the power supply equipment in each of the two or more consumers and the storage battery installed in the mobile body, that are present in the region at each time and a remaining level of the storage battery at each time, and excessive

power and deficient power of each of the two or more consumers at each time and a target indicator of the region at each time in a case where each of the two or more consumers implements an operation plan for the power supply equipment to satisfy a target indicator of each of the two or more consumers.