CLAIMS

1. A railroad electric power management system comprising:

a service management system that performs service management of railroad vehicles;

a station management system that performs operation management of a station facility; and

a control system that controls the service management system and the station management system such that a sum of first electric power consumption and second electric power consumption is to be equal to or less than a certain electric-power regulation value, the first electric power consumption being consumed by the railroad vehicles, the second electric power consumption being consumed by the station facility, wherein

the service management system is configured to be able to change the first electric power consumption by switching a plurality of service patterns concerning service of the railroad vehicles,

the station management system is configured to be able to change the second electric power consumption by switching a plurality of operation patterns concerning operation of the station facility,

the control system is configured to determine the service pattern and the operation pattern with which the sum of the first electric power consumption and the second electric power consumption is equal to or less than the electric-power regulation value, and notify the service management system and the station management system of the determined service pattern and the determined operation pattern, and

the control system is configured to select as priority an operation pattern of a least second electric power consumption out of the operation patterns, to select the service patterns in sequence in a state in which the operation pattern of the least second electric power consumption, and compare the electric-power regulation value with the sum corresponding to the selected service pattern and the operation pattern.

2. The railroad electric power management system of claim 1, wherein the control system is configured to select the service patterns in sequence in descending order of the first electric power consumption.

3. The railroad electric power management system of claim 1, wherein the control system is configured to switch the operation pattern to a first pattern when the sum corresponding to the determined service pattern and the determined operation pattern is smaller than the electric-power regulation value by a certain value or more, the first pattern being the operation pattern that is of greater second electric power consumption in a range for which the sum is equal to or less than the electric-power regulation value.

4. The railroad electric power management system of claim 3, wherein

the station facility includes a plurality of station facilities, and

the control system is configured to switch the operation pattern to a second pattern, the second pattern being the operation pattern that is of greater second electric power consumption in sequence from the station

facilities of higher priority out of the station facilities.