CLAIMS

1. A vehicle-mounted apparatus which is mounted on a vehicle using an electric drive, characterized in that the vehicle-mounted apparatus is configured to:

establish a communication connection with a power demand amount calculation apparatus via a communication circuit, wherein the power demand amount calculation apparatus includes a power demand amount calculation unit that calculates a demand amount of power necessary for the vehicle in operation located within a predetermined region; and

transmit a floating car data, which includes at least information representing a rated capacity of the battery of the vehicle, information representing a charge level of the battery of the vehicle, and information indicating whether the vehicle is being charged, to the power demand amount calculation apparatus.

2. The vehicle-mounted apparatus according to Claim 1, wherein the vehicle-mounted apparatus is configured to acquire information representing the rated capacity of the battery of the vehicle, information representing the charge level, and information indicating whether the vehicle is being charged, from a control apparatus which controls the battery via a controller area network (CAN).

3. The vehicle-mounted apparatus according to Claim 1 or 2, wherein the information indicating whether the vehicle is being charged is transmitted to the power demand amount calculation apparatus for analyzing a charging pattern of the vehicle.

4. The vehicle-mounted apparatus according to Claim 3, wherein the charging pattern includes: a time zone in which charging is concentrated; an average value of a charge level at the initiation of charging; a ratio at which a charging station is used, and a ratio at which rapid charging is used

5. A vehicle on which the vehicle-mounted apparatus according to any one of Claims 1 to 4 is mounted.

6. A power demand amount calculation system that calculates a demand amount of power necessary for a plurality of vehicles using electric drive, the system comprising:

a power demand amount calculation apparatus configured to calculate the demand

amount of power necessary for the vehicles,

characterized in that the power demand amount calculation apparatus is configured to:

receive a floating car data, which includes at least information representing a rated capacity of the battery of the vehicle, information representing a charge level of the battery of the vehicle, and information indicating whether the vehicle is being charged, to the power demand amount calculation apparatus, from the vehicles, and

analyze a demand amount of power in a predetermined region or a charging patter of the vehicles based on the received floating car data.

7. A power demand amount calculation apparatus that calculates a demand amount of power necessary for a plurality of vehicles using electric drive, characterized in that the power demand amount calculation apparatus is configured to:

receive a floating car data, which includes at least information representing a rated capacity of the battery of the vehicle, information representing a charge level of the battery of the vehicle, and information indicating whether the vehicle is being charged, to the power demand amount calculation apparatus, from the vehicles, and

analyze a demand amount of power in a predetermined region or a charging patter of the vehicles based on the received floating car data.