CLAIMS

1. A management device characterized by comprising:

a communication device configured to communicate with a moving object configured to transport a packing box packed with a plurality of products from an upstream company to a downstream company; and

a control device configured to

acquire location information of the moving object from the moving object via the communication device,

determine a start time point and a completion time point of a transportation of the packing box by the moving object based on the location information,

calculate a first CO2 emission representing CO2 emissions emitted in the transportation of the packing box based on an amount of energy consumed by the moving object from the start time point to the completion time point,

calculate a second CO2 emission representing CO2 emissions per unit number for the products in the transportation by dividing the first CO2 emission by a total number of the products.

2. The management device according to claim 1, wherein:

the control device is configured to acquire a state information from the moving object via the communication device;

the start time point is a time point at which the moving object is switched from a sleep state to an active state in a site of the upstream company, and

the completion time point is a time point at which the moving object is switched from the active state to the sleep state in a site of the downstream company.

3. The management device according to claim 1 or 2, wherein:

the moving object includes an internal combustion engine; and

the control device is configured to calculate the first or the second CO2 emissions based on fuel consumption consumed by the moving object from the start time point to the completion time point.

4. The management device according to claim 1 or 2, wherein:

the moving object includes a battery and a drive device configured to be driven using power of the battery; and

the control device is configured to calculate the first or the second CO2 emissions based on power consumption consumed by the moving object from the start time point to the completion time point.

5. A management method executed by a management device, the management method characterized by comprising:

communicating with a moving object configured to transport a packing box packed with a plurality of products from an upstream company to a downstream company;

acquiring location information of the moving body from the moving body;

determining a start time and a completion time of a transportation of the packing box by the moving body based on the location information;

calculating a first CO2 emission representing CO2 emissions emitted in the transportation of the packing box based on an amount of energy consumed by the moving object from the start time point to the completion time point; and

calculating a second CO2 emission amount indicating the CO2 emission amount in the transportation process per unit number of the plurality of products by dividing the first CO2 emission amount by the number of the plurality of products in the packaging box.