[0004] Patent Literature 1: Japanese Patent Application Laid-open No. 2011-34205 (JP 2011-34205 A)

## Summary

### Technical Problem

[0005] The technique described in Patent Literature 1 predicts a CO2 emission amount based on a slope of a graph representing a past CO2 emission amount up to the present time. However, in an actual business operator, the CO2 emission amount varies due to, for example, a change of scale thereof, a change of equipment thereof, and/or the like. This imposes a problem that prediction based on the slope of the graph representing a past CO2 emission amount may lead to poor prediction accuracy.

[0006] Embodiments of the present disclosure provide a greenhouse gas reduction support device that provides higher accuracy of prediction of a CO2 emission amount.

### Solution to Problem

[0007] According to a first aspect, there is provided a greenhouse gas reduction support device including: an information acquisition unit to acquire unique information specific to a business operator to be supported, the unique information including business related information that is various types of information regarding business conducted by the business operator to be supported; a calculation unit to calculate a prediction value of a greenhouse gas emission amount at a time when a specific time period elapses from a present time on a basis of the business related information included in the unique information acquired by the information acquisition unit, and to calculate a difference between a target value and the prediction value of the greenhouse gas emission amount at

the time when the specific time period elapses; and an output unit to output a result of calculation performed by the calculation unit to an outside.

[0007a] According to a second aspect, there is provided a greenhouse gas reduction support method including: an information acquisition step of acquiring unique information specific to a business operator to be supported, the unique information including business related information that is various types of information regarding business conducted by the business operator to be supported; a calculation step of calculating a prediction value of a greenhouse gas emission amount at a time when a specific time period elapses from a present time on a basis of the business related information included in the unique information acquired in the information acquisition step, and of calculating a difference between a target value and the prediction value of the greenhouse gas emission amount at the time when the specific time period elapses; and an output step of outputting a result of calculation performed in the calculation step to an outside.

[0007b] According to a third aspect, there is provided a greenhouse gas reduction support program that causes a computer to perform: an information acquisition step of acquiring unique information specific to a business operator to be supported, the unique information including business related information that is various types of information regarding business conducted by the business operator to be supported; a calculation step of calculating a prediction value of a greenhouse gas emission amount at a time when a specific time period elapses from a present time on a basis of the business related information included in the unique information acquired in the information acquisition step, and of calculating a

difference between a target value and the prediction value of the greenhouse gas emission amount at the time when the specific time period elapses; and an output step of outputting a result of calculation performed in the calculation step to an outside.

[0007c] According to a fourth aspect, there is provided a greenhouse gas reduction support system that supports a measure determination operation for reducing an emission amount of a greenhouse gas in each of a plurality of business operators to be supported to bring the emission amount to a target value, the greenhouse gas reduction support system including: a database and a terminal device, each provided in each of the plurality of business operators to be supported, the database being a database to manage unique information specific to a corresponding one of the business operators to be supported, the unique information including business related information that is various types of information regarding business conducted by the corresponding one of the business operators to be supported, the terminal device being to be used in the measure determination operation; and a greenhouse gas reduction support device to assist in the measure determination operation, wherein the greenhouse gas reduction support device includes an information acquisition unit to acquire the unique information from the database, a calculation unit to calculate a prediction value of a greenhouse gas emission amount at a time when a specific time period elapses from a present time on a basis of the business related information included in the unique information acquired by the information acquisition unit, and to calculate a difference between a target value and the prediction value of the greenhouse gas emission amount at the time when the specific time period elapses, and

an output unit to output a result of calculation performed by the calculation unit to the terminal device.

## Advantageous Effects of Invention

[0008] According to embodiments of the present disclosure, an effect is provided that enables a greenhouse gas reduction support device to be provided that provides higher accuracy of prediction of a CO2 emission amount.

## Brief Description of Drawings

[0009] FIG. 1 is a diagram illustrating an exemplary configuration of a greenhouse gas reduction support system according to a first embodiment.

FIG. 2 is a diagram illustrating an example of a business related information table.

FIG. 3 is a diagram illustrating an example of a target setting table.

FIG. 4 is a diagram illustrating an example of a weighting table.

FIG. 5 is a diagram illustrating an example of a business expansion information table.

FIG. 6 is a diagram illustrating an example of an emission factor table.

FIG. 7 is a flowchart illustrating an example of operation of a greenhouse gas reduction support device according to the first embodiment.

FIG. 8 is a diagram illustrating an example of an activity amount change prediction table.

FIG. 9 is a flowchart illustrating an example of an