ABSTRACT

A high-efficiency product carbon footprint inventory system (300) and a high-efficiency product carbon footprint inventory method are provided. The high-efficiency product carbon footprint inventory system (300) includes a server system to perform calculation, storage, and data transmission in the high-efficiency product carbon footprint inventory system (300). The server system includes an operational boundary database (310) and an energy resource setting module (336) for receiving data provided by multiple data sources, including operational boundary organizational greenhouse gas inventory (301) data, a production material list or a procurement material list, work order production information, data of operational boundary sales record (303), and supplier emission factor data (304) of an operational boundary. The server system uses a computer system to implement the high-efficiency product carbon footprint inventory method, calculate an organization-wide product/service carbon footprint, and issue carbon-related management documents.

(Figure 3)