PEAK ELECTRIC POWER REDUCTION SIMULATION SYSTEM USING BACKUP HEAT SOURCE AND SIMULATION METHOD USING THE SAME

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the benefit of Korean Patent Application No. 10-2020-0181375, filed on December 22, 2020, which is hereby incorporated by reference as if fully set forth herein. This patent application was supported by funded Korea Institute of Energy Technology Evaluation and Planning & the Ministry of Trade, Industry and Energy. [Project Name: Development of a digital twin platform and business model linked to domestic and foreign technical standards that support energy management and optimization of energy-intensive buildings/ Project Number: 20212020900090].

BACKGROUND OF THE INVENTION

Field of the Invention

[0002] The present disclosure relates to a peak power reduction simulation system using a backup heat source and a simulation method using the same, and particularly to a peak power reduction simulation system using a backup heat source and a simulation method using the same for energy saving and presenting an accurate guideline for server expansion within the range that does not require additional power facilities by simulating an energy reduction state using the backup heat source.

Discussion of the Related Art

[0003] A data center consumes much energy for cooling of a server room and inputs energy for cooling for 24 hours. A data