ABSTRACT OF THE DISCLOSURE

A micro-grid system construction method, wherein the micro-grid system supplies an electric power to a specific area, by configuring a network which integrally controls and operates a distributed power supplies including plural types of power supplies, includes: a step of measuring a load variation of the specific area and performing a frequency-analysis of a measured data of the load variation; and a step of determining an assigned frequency which is assigned to each of the plural types of power supplies based on a frequency response characteristics of each of the plural types of power supplies, and calculating a capacity required for each of the plural types of power supplies, by assigning a frequency-analysis result of the load variation to each of the plural types of power supplies based on the assigned frequency.