ABSTRACT

[Abstract]

POWER SYSTEM CONTROL SYSTEM AND CONTROL METHOD

[Task] To perform a supply and demand control of a power system in which distributed generators are introduced, and to prevent concentration of major processes such as collection of load information and calculation of generator output allotment, to a specified agent such as a switch agent.

[Means for solution] In a section separated by a section switch (or in a unit microgrid), a section agent 1 (or a microgrid agent) grasps a power flow quantity, and requests the adjustment for a flow variation quantity to the generator agent 2 or downstream section agent 4, and that generator or downstream section agent performs the adjustment autonomously with other generator agent or downstream section agent, respectively, and performs the supply and demand control of the distributed generators in the section and the downstream section by repeating a chain of operations of the adjustment.

Fig. 1