Title (en)
METHOD FOR STABILIZING A VOLTAGE SUPPLY NETWORK

Title (de)
VERFAHREN ZUR STABILISIERUNG EINES SPANNUNGSVERSORGUNGSNETZES

Title (fr)
PROCÉDÉ DE STABILISATION D'UN RÉSEAU D'ALIMENTATION EN TENSION

Publication
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Application
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Abstract (en)
[origin: WO2013113629A2] In conventional voltage supply networks, the balance between the power fed in by the generators and the power drawn by the loads is controlled by means of the frequency of the alternating voltage. In future intelligent voltage supply networks (smart grids) having many small decentralized plants, such control by means of the network frequency will become more and more difficult. Instead, a central electronic control signal is transmitted in a separate communication network to devices in order to control the decentralized generators and also loads. However, there is a risk of network instability if many decentralized plants are simultaneously switched upon reaching a preset threshold value. Therefore, according to the invention, preset threshold values are not directly used as threshold values, but rather suitable effective threshold values are derived therefrom. Thus, the threshold values assume different values for different devices in the smart grid, and an undesired simultaneous reaction of all control devices in the smart grid is prevented.

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