

Title (en)

METHOD AND CONTROL DEVICE FOR CONTROLLING LOAD FLOWS BETWEEN A PLURALITY OF ENERGY SYSTEMS

Title (de)

VERFAHREN UND STEUERUNGSVORRICHTUNG ZUM STEUERN VON LASTFLÜSSEN ZWISCHEN MEHREREN ENERGIESYSTEMEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE COMMANDE PERMETTANT DE RÉGULER DES FLUX DE CHARGE ENTRE UNE PLURALITÉ DE SYSTÈMES D'ÉNERGIE

Publication

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Application

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Abstract (en)

[origin: WO2022184393A1] The invention relates to a method for controlling load flows between a plurality of energy systems (2) via an electrical network (4) by means of a control device (1) common to the energy systems (2), wherein a power associated with a load flow can be provided by each of the energy systems (2) at at least one network node of the electrical network (4), the method comprising at least the following steps: - (S1) determining first powers which are provided for the load flows, on the basis of data which are transmitted from the energy systems (2) to the control device (1) and comprise information regarding a maximum power which can be provided by the relevant energy system at the relevant network node; - (S2) ascertaining a network-node-resolved control power which is internal with respect to the electrical network (4), on the basis of the determined provided first powers as well as on the basis of provided network boundary conditions of the electrical network (4); - (S3) taking into account the control power ascertained at the network nodes by accordingly reducing or increasing the maximum powers which can be provided at this network node by the energy systems (2); - (S4) determining provided second powers on the basis of the reduced or increased maximum powers which can be provided; and - (S5) controlling the load flows according to the determined second powers. The invention also relates to a control device (1) for carrying out the method.

IPC 8 full level

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