

Title (en)  
METHOD FOR CONTROLLING POWER EXCHANGES AND HEAT EXCHANGES BETWEEN A PLURALITY OF ENERGY SYSTEMS BY MEANS OF A CENTRAL CONTROL PLATFORM

Title (de)  
VERFAHREN ZUM STEUERN VON STROM- UND WÄRMEAUSTAUSCHEN ZWISCHEN MEHREREN ENERGIESYSTEMEN MITTELS EINER ZENTRALEN STEUERUNGSPLATTFORM

Title (fr)  
PROCÉDÉ DE COMMANDE D'ÉCHANGES D'ÉNERGIE ET D'ÉCHANGES THERMIQUES ENTRE UNE PLURALITÉ DE SYSTÈMES D'ÉNERGIE AU MOYEN D'UNE PLATEFORME DE COMMANDE CENTRALE

Publication  
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Application  
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Abstract (en)  
[origin: WO2022073667A1] The invention relates to a method for controlling power exchanges (41) and heat exchanges (21) between a plurality of energy systems (10) by means of a control platform (1) that is central with respect to the energy systems (10), wherein the power exchanges (41) are carried out by means of an electrical grid (4) and the heat exchanges (21) are carried out by means of a heat network (2). The method is characterised by the following steps: - calculating the outputs associated with the power exchanges (41) and heat exchanges (21) by means of a mathematical optimisation by the control platform (1); wherein - the optimisation is based on a target function comprising a coupling (42) between power exchanges (41) and heat exchanges (21); and - calculating the outputs associated with the power exchanges (41) and heat exchanges (21) so as to comply with grid boundary conditions of the power grid (4); and - carrying out the power exchanges (41) and heat exchanges (21) between the power systems (10) according to the calculated outputs. The invention also relates to a control platform (1).

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