

Title (en)

MODEL-BASED PREDICTIVE REGULATION OF A BUILDING ENERGY SYSTEM

Title (de)

MODELLBASIERTE PRÄDIKTIVE REGELUNG EINER GEBÄUDE-ENERGIEANLAGE

Title (fr)

RÉGULATION PRÉDICTIVE À BASE DE MODÈLE D'UNE INSTALLATION DE DISTRIBUTION D'ÉNERGIE D'UN BÂTIMENT

Publication

**EP 1987402 A1 20081105 (DE)**

Application

**EP 07712263 A 20070221**

Priority

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- DE 102006008722 A 20060224

Abstract (en)

[origin: WO2007096377A1] In a method for the predictive control and/or regulation of a building energy system having at least one combined heat and power unit (1), control signals for a control and regulation unit (2) which is associated with the combined heat and power unit (1) are generated by a control and regulation device (20) which is superordinate to the control and regulation unit, wherein a model (21) of the thermal and energy behaviour of the building and the energy system as well as the users of the latter is used to generate the control signals and optimization is carried out using a sliding time horizon. One optimization criterion can be selected according to the current needs of the operator of the energy system. The optimization criterion is, for example, an indicator of the primary energy consumption of the energy system or else a measure of the carbon dioxide emission produced by the energy system.

IPC 8 full level

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CPC (source: EP)

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