

Title (en)

METHOD AND DEVICE FOR CONTROLLING AN ENERGY-GENERATING SYSTEM WHICH CAN BE OPERATED WITH A RENEWABLE ENERGY SOURCE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG EINER MIT EINER ERNEUERBAREN ENERGIEQUELLE BETREIBBAREN ENERGIEERZEUGUNGSANLAGE

Title (fr)

PROCÉDÉ ET DISPOSITIF DE COMMANDE D'UNE INSTALLATION DE PRODUCTION D'ÉNERGIE EXPLOITABLE AVEC UNE SOURCE D'ÉNERGIE RENOUVELABLE

Publication

EP 2954467 A1 20151216 (DE)

Application

EP 13802316 A 20131203

Priority

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- EP 2013075305 W 20131203

Abstract (en)

[origin: WO2014121863A1] A method and a device for controlling an energy-generating system which can be operated with a renewable energy source are proposed. In the method, a prediction about an energy yield of the energy-generating system is made for a predefined prediction time period, and a predefined area, using a learning system with an input vector and an output vector. The output vector comprises one or more operating variables of the energy-generating system for a multiplicity of successive future times of the predefined prediction time period. The input vector comprises one or more input variables, influencing the operating variable or operating variables, for a point in time from a multiplicity of points in time of a predefined observation time period. The input variables comprise at least three items of information for the predefined observation time period and the predefined area. Furthermore, in the method the energy-generating system is controlled on the basis of the generated prediction such that weather-conditioned fluctuations in the energy yield of the energy-generating system are reduced. As a result it becomes possible to control the energy-generating system on the basis of the generated predictions such that weather-conditioned fluctuations in the energy yield of the energy-generating system are reduced.

IPC 8 full level

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Citation (search report)

See references of WO 2014121863A1

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