

Title (en)
DYNAMIC WIND-ENERGY PLANT

Title (de)
DYNAMISCHES WINDKRAFTWERK

Title (fr)
CENTRALE ÉOLIENNE DYNAMIQUE

Publication
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Application
EP 19787239 A 20191014

Priority
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Abstract (en)
[origin: CA3113388A1] The invention relates to a method for open-loop control of an electrical distribution grid having a rated grid voltage, in particular in a critical grid situation, wherein a grid control centre is provided for open-loop control of the electrical distribution grid and the electrical distribution grid comprises at least one closed-loop control region which includes a plurality of spatially separate wind farms. The method comprises the steps of: querying available capacities of the wind farms, in particular on the basis of a weather forecast; defining a closed-loop control node within the closed-loop control region, in particular on the basis of the queried available capacities, preferably by the grid operator; grouping a number of wind farms on the calculated closed-loop control node to form a wind-energy plant on the basis of the queried available capacities and/or a probability distribution of the available capacity; open-loop control of the wind-energy plant, in particular by the grid control centre, by means of a wind-energy-plant open-loop control unit such that a required voltage quality and/or frequency stability and/or interruption-free availability is provided in the closed-loop control region.

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