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RESEARCH ARTICLE

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ABSTRACT

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1. INTRODUCTION

During recent years, wind energy has moved from an emerging technology to become a nearly competitive technology with conventional energy sources. An increased proportion of the turbines to be installed in the future, are foreseen to be sited in large wind farms. Establishment of large wind farms requires enormous investments, putting steadily greater emphasis on optimal topology layout. Today, the design of a wind farm is typically based on an optimization of the power output only, whereas the load aspect is treated in a rudimentary manner only, in the sense that the wind turbines are required only to comply with the design codes.

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