Advances in wind turbine blade design and materials: 11. Biobased composites: materials, properties and potential applications as wind turbine blade materials (Woodhead Publishing Series in Energy)

B. Madsen, P. Brøndsted, T. Løgstrup Andersen

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This chapter about biobased composites starts by presenting the most promising types of cellulose fibres; their properties, processing and preforms for composites, together with an introduction to biobased matrix materials. The chapter then presents the typical mechanical properties of biobased composites, based on examples of composites with different fibre/matrix combinations, followed by a case study of the stiffness and specific stiffness of cellulose fibre composites vs glass fibre composites using micromechanical model calculations. Finally, the chapter presents some of the special considerations to be addressed in the development and application of biobased composites.

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