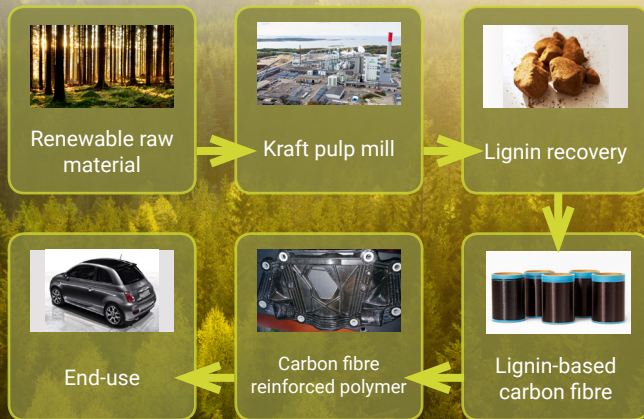


Aim: to demonstrate a new biobased, renewable and economically viable carbon fibre precursor, produced in Europe from lignin and to develop conditions for its processing into carbon fibre and structural composites.





Biobased cost-efficient carbon fibres would enable an increased replacement of steel with carbon fibre composites in cars. This would in turn decrease the weight and fuel/electricity consumption of the car fleet. The vision of the GreenLight project is to utilise lignin, a wood component that is an abundant by-product from pulp mills, as raw material for such green and cost-efficient carbon fibres.

Lignin-based carbon fibres have so far been produced at the laboratory scale. The great challenge for the GreenLight team is to achieve good carbon fibre strength and to produce it continuously at the pilot scale. This initiative is of great significance in terms of access to bio-based products in the future bioeconomy.



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