

# Abstract for Renewable Materials Conference in Siegsburg, September 2025

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**Title:**

Scalable, processable, renewable, recyclable and cost effective – Lignin-based plastic ticks all the boxes

**Abstract:**

Lignin is the second most abundant organic material on Earth with more than 700 mn tons being discarded or burnt globally every year. Lignin Industries' innovative and patented solution creates a bridge between forestry/agricultural residues and plastics. Our product, a thermoplastic material called Renol®, lowers CO2 emissions in the plastics industry without sacrificing functional performance. The solution is easy to use, highly scalable, recyclable and replaces up to 40% of the fossil raw materials in polymers like ABS, PP and PE. Commercial since 2024, Lignin Industries is now seeing multiple products being launched into the market such as eCom packaging, consumer electronics and construction. When scaling, Renol® will be the most cost-effective bio-based solution to replace conventional fossil plastics, enabling the industry to end its reliance on fossil raw materials. .