

Exploring Innovations in Specialty Paper:

Alternative Pulp Sources, Non-traditional Markets & Achieving Sustainability

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Manufactured or subsequently converted for a special application

- What makes a Specialty Paper “special”?
- What makes paper a wise choice in a world of many substrate options?
- How can ideally-suited paper products meet the ever-changing needs of our consumer marketplace?





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Those are some really special PAPERS!

Specialty Papers

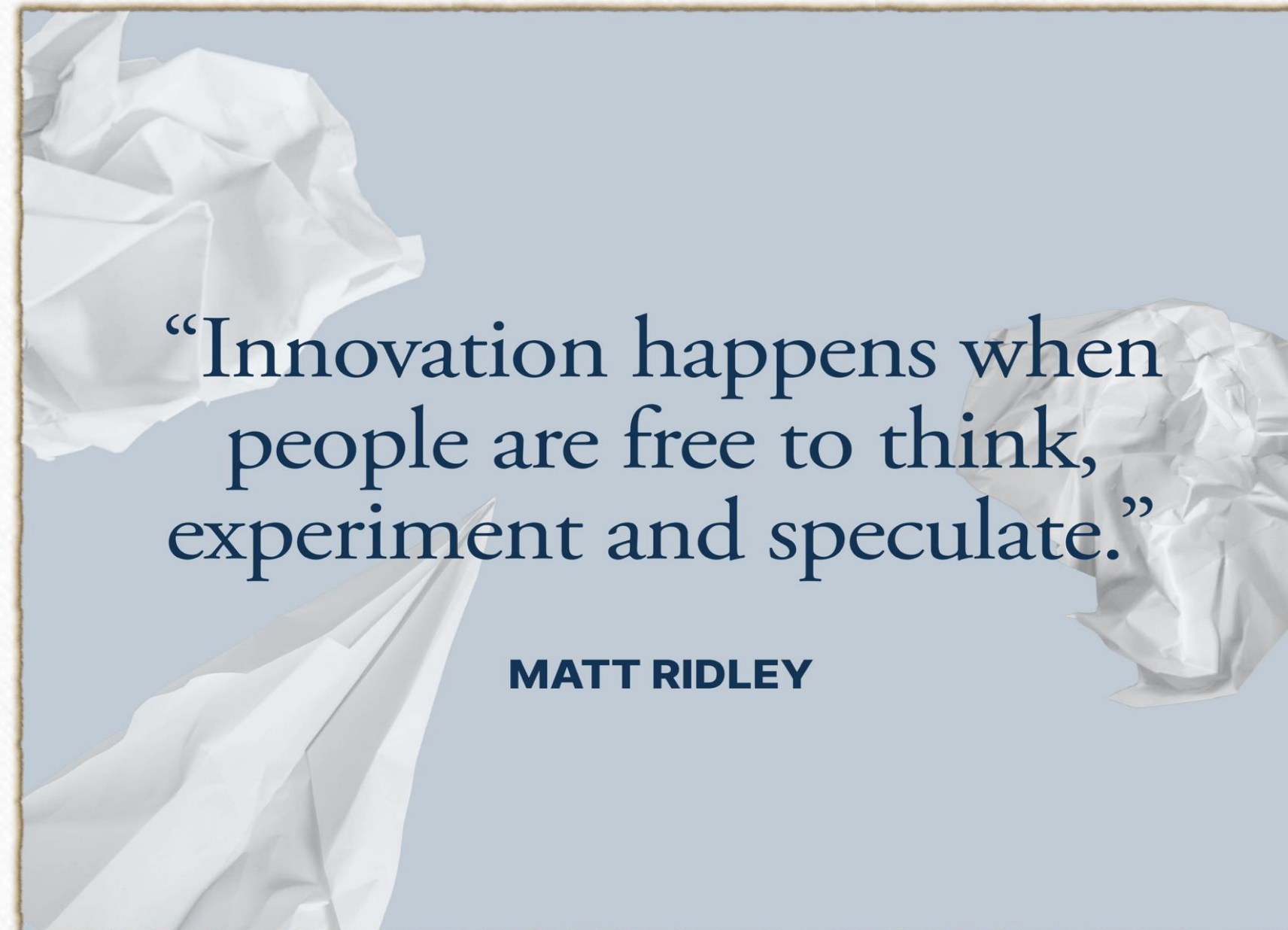
- Tailored products typically part of smaller manufacturing runs
- Unique properties created within the base paper
- Enhanced properties as a function of specific paper coatings
- Specialized features from off-machine converting processes
- Roll sizes and packaging to align with customers' specific requirements



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Innovation



- ❑ *Meeting today's paper and packaging challenges*
- ❑ *Anticipating tomorrow's challenges*

Traditional sources of pulp are characterized as:

- Virgin Fiber (Hardwood, Softwood)
- Recycled Fiber (Pre- and Post-Consumer Waste)



**Papermakers engineer properties into
a finished paper product by
considering a variety of pulp fiber
decisions/actions**

- Blend of hardwood/softwood sources
- Degree of refining - mechanical “work” applied to fibers
- Adjustments to sheet forming, wet pressing, drying and calendering
- Additives to enhance properties or aid in maximizing sheet manufacture



For new pulp sources, The possibilities are endless...



Sugarcane Bagasse



Wheat Straw



Tequila Agave



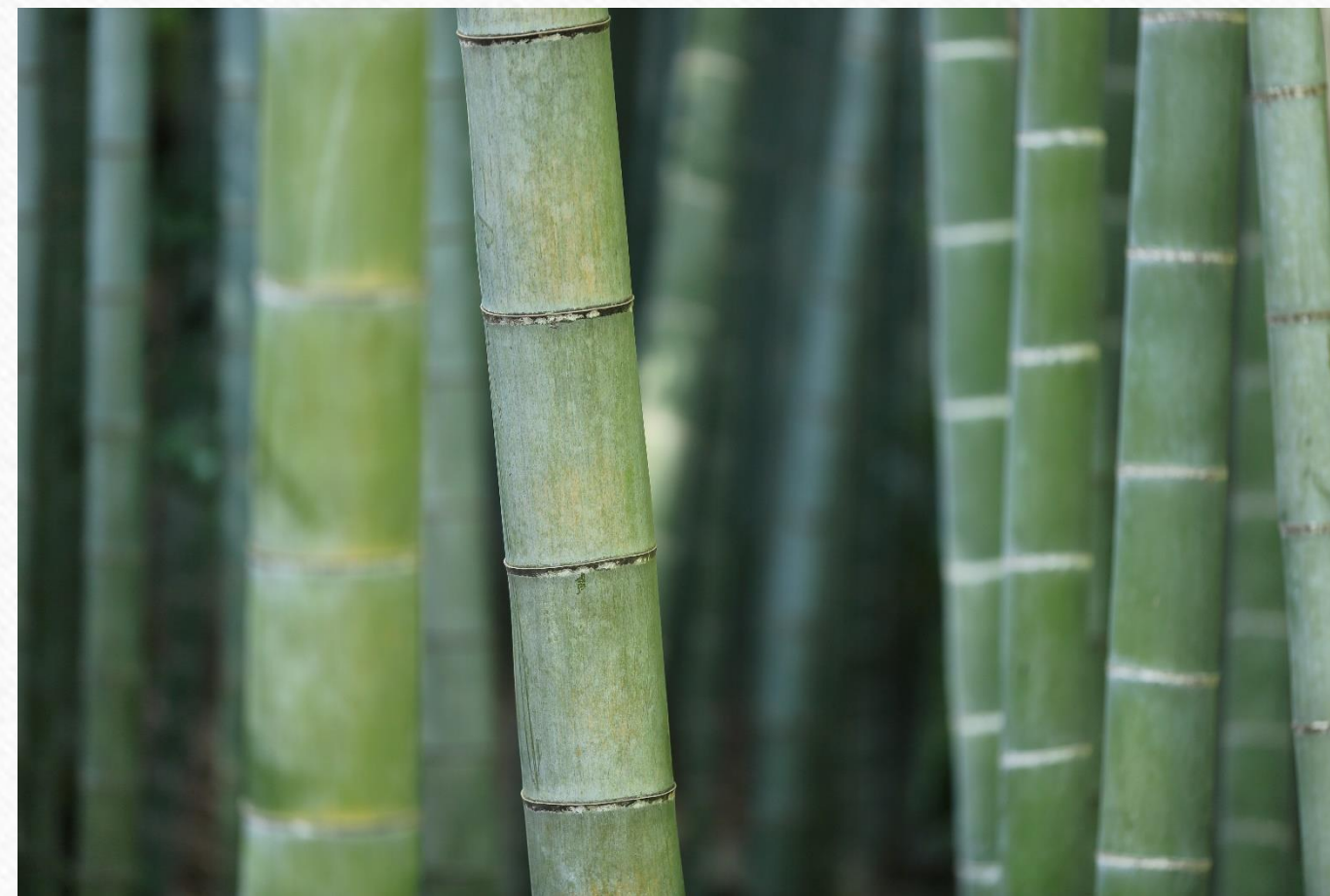
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Alternative Pulp Sources



Corn Husk



Bamboo



Industrial Hemp



Non-Traditional Markets



Food & Beverage
Industry



Personal Care Industry

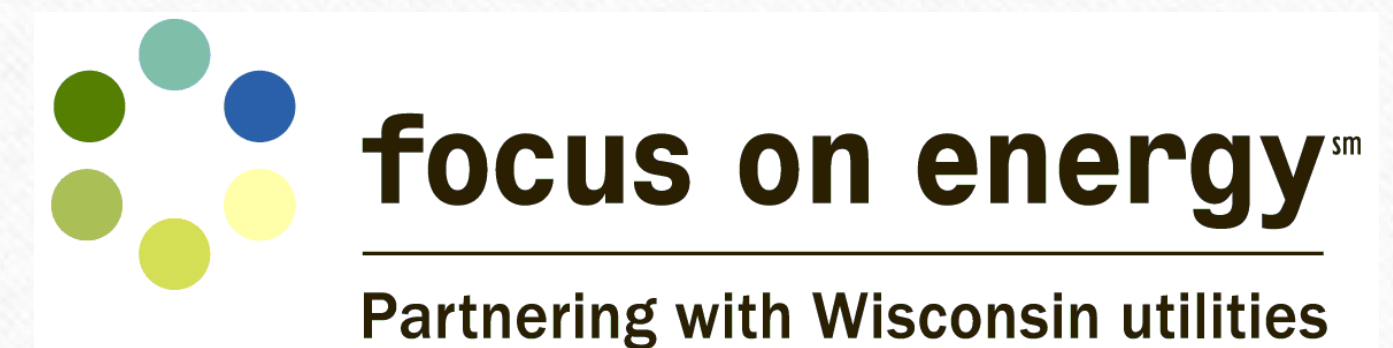


Marijuana Industry



Economic, Environmental and Social Pillars

- Minimizing Waste
- Reducing Emissions
- Consuming Less Energy
- Providing Customers Attractive Product Alternatives



Products Suited for Customer's Sustainability Goals

- ❖ Replacing plastic with paper-based substrates
- ❖ Reducing total weight or volume of packaging
- ❖ Aligning products with recyclable and compostable collection streams



Future is Bright for Specialty Paper Industry

- Innovating
- Demonstrating Flexibility to meet Market Challenges
- Respectful of the Natural Resources that we share





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Thank you for your time!

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