

Cool things you can make from waste biomass

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Historical Use of Waste Biomass



Using Technology...

Valuable products can be made with waste biomass.

Biomass = food waste, plant waste, tree waste, ag waste = lignocellulose.

1. Animal bedding



2. Compost



3. Reducing Coal



Manitoba



Alberta

4: Coloured Mulch



5: Pellets and Briquettes



Number 6: Absorbents for Oil and Water



A wide range of absorbents and now superabsorbents are made from plants... New polymers can absorb 100 to 300 times their weight in water or oil and clean up spills.

Number 7: Bio-composites



Number 8: Remediation, reclamation



Salt,
metals,
hydrocarbons,
peas, canola...



9: Animal Feed Additives



...For bad doggy
breath?



10: Beauty products

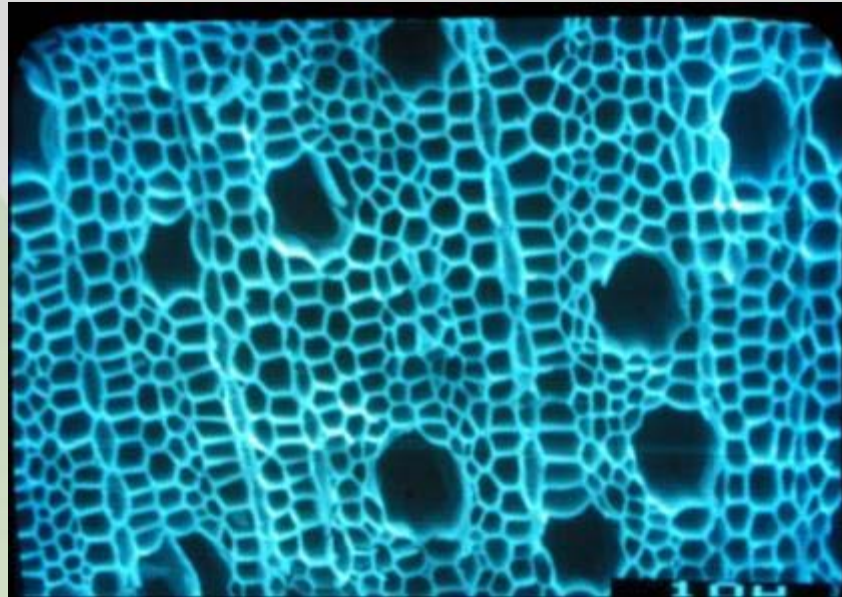


11: Supercapacitors, electrodes, electric vehicles, mag lev trains, graphene... the future



Made with plants...

• Conclusions



1. Functionated carbon products are made from renewable waste lignocellulosic fibre (aka cool things from biomass/plant waste).
2. Made with plants products are renewable with markets driven at the consumer level, with increasing global interest in carbon sequestration.
3. New and **new again** technologies and a shift toward climate smarter products are providing opportunities to reduce waste disposal costs and generate positive revenue.
4. MMM: Make it Marketable and with Margin.



Thank you!

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