



WILSON
BIO-CHEMICAL



- Using clean, dry, saturated steam to convert municipal solid waste into recyclable materials.
- Over 90% diversion from landfill.
- Converts all the biogenic content to homogenous cellulose rich fibre.

BIOGENIC FIBRE

- Can be combusted, gasified or pyrolysed.
- However, making a saleable product is far more attractive.
- Working with the Bio-Renewable Development Centre (BDC) at the University of York has resulted in a 50kg Wilson System installed for production of high value chemicals from waste.



POTENTIAL CHEMICAL PRODUCTION



- **Ethanol for transportation fuel.**
- **Butanol for chemical intermediary or transportation fuel.**
- **Acetone for use as a solvent and chemical intermediate.**
- **Hydrogen for the H₂ economy.**
- **Bio-Char for co-mingling with coal/charcoal.**

WilsonFibre®[®], Creating Solutions for Renewable Energy Demands



- Investigating thermal and biological treatments for conversion to high value fuels and chemicals such as methane, ethanol, butanol, acetone, hydrogen and citric acid among others.
- WBC have won a grant through Innovate UK to carry out a practical feasibility study for the production of Bio-Char from waste. Bio-Char is a coal like substance to replace or co-mingle with coal and other fuels.
- This micro system is capable of testing a variety of waste streams to investigate which conversion technology is most appropriate. Turning your waste into an asset and avoid future landfill costs.



Develop Projects, and Exploitation, Home and Abroad



- * **Chesterfield, first project converting 150,000 tonnes MSW to biomass fibre.**
- * **Flagship project for demonstrating plant technical robustness and reliability.**
- * **Demonstration facility for integrated waste to butanol and hydrogen to be built at BDC.**
- * **Potential site and waste contract for integrated waste to bio-char project in Birmingham.**
- * **Expansion of Company through sales of licenses to geographical areas and project by project.**
- * **Always interested in potential financial help.**



Develop Projects, and Exploitation, Home and Abroad



- * We do not offer the complete solution.
- * We offer a preparatory treatment method to provide a biogenic material for other technologies.
- * Always looking for partners to who can use a homogenous low cost cellulose rich feedstock.
- * Indications are that many specific chemicals could be produced using this material, not only bio-fuels.

**JOIN US TO TURN A MUNICIPAL LIABILITY TO A
NATIONAL ASSET.**

