Green Distillation Technologies

Downstream Product Development

Process and Products

Proprietary Process - Destructive Distillation

Mature Technology - commercial scale unit operational

- Plant construction to full scale in progress
- Planned 7 plant roll out in Australia
- Planned minimum 15 plant roll out in North America total capacity 500k tonnes of tyres per year producing 225k tonne rCB, 200 million litres oil
- Global opportunity







Products

Recovered Carbon Black (rCB)

NEW APPLICATIONS HAVE THE POTENTIAL TO CREATE SIGNIFICANT, INCREMENTAL DEMAND GROWTH IN THE FUTURE

- Battery Industry Lithium-ion Batteries
- Fuel Industry Fuel Cell
- Nuclear Power Industry

Graphite

- Consumer Electronics Industry
- Power Tools Industry
- Auto Industry hybrid and fully electric vehicles

(Each hybrid electric car uses about 22 pounds of graphite, while a fully electric auto uses about 110 pounds.)

- Defined by ASTM standard D8178-20
- Potential markets requiring further processing
 - Rubber reinforcement

Has specific particle size and surface area limitations. GDTC product requires milling and pelletising

Graphene - multiple variations, multiple markets

New and emerging technologies for Edge Functionalised and Turbostatic Graphene

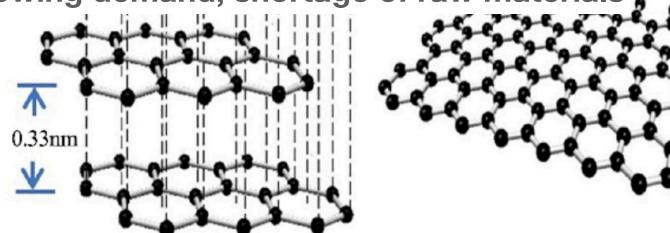
• Graphite - batteries, capacitors etc.

New technologies to convert carbonised materials into battery ready graphite. Huge and growing demand, shortage of raw materials

Paints and coatings

Strength, UV protection, thermal insulation requirement

Asphalt and Bitumen



Products Oil

• Stable oil, easily refined into diesel substitute

70% in the diesel range, standard refining protocols apply

Can be blended with fossil fuels to achieve low carbon fuel status

Increased legislation to achieve low carbon fuel status. Refined or blended potential.

Multiple opportunities in polymer and other industries

Oil is the base ingredient in a range of plastics and polymers. GDTC oil can replace fossil fuels in some of these applications

High demand in Europe

The Non Oil producing nations of the EU have been the first to grasp the significance of renewable oils.



Proposal

Joint Development Agreement

- Raw products need processing to enter high value markets
- Partner sought to assist development of high value markets
- JDA resulting in JV operation or license agreements
- Global problem with global potential
- Circular economy, sustainability, low carbon future
- Government and industry focus on renewable resource