

# **Using Material Selection for Green Design**

**“ Recycling starts with Design ”**

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**Green Design for Packaging**

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# Contents



- 1. Problems that Recyclers would like to discuss with Designers**
- 2. What recyclers actually have to do!**
- 3. Example of a recycling process  
Closed Loop London**
- 4. Case studies in bottle design and recyclability of PET and HDPE**
- 5. Designing for recyclability- what's left!**

# **Nextek Limited – Creating Sustainable Solutions in Polymers and Recycling**



## **Background**

- **Professor/Director RMIT Polymer Tech. Centre- Rapidsort NIR detector- Rofin**
- **R&D Manager Visy Industries.**
- **Establishment of mixed bottle plant to FDA rPET process**
- **Revision of Sydney Coca Cola Plant – Phoenix process**
- **Market development bottle, fiber, sheet and moulding applications**

## **RECENT UK Projects**

- **Development of PET recycling plant for Closed Loop London**
- **Development of a new FDA Food Grade PET Recycling Process**
- **Demonstration of Viability of rPET in Retail Packaging: CLL, M&S and Boots**
- **Beverage Packaging Waste Reduction: Light weighting PET bottles, Esterform**
- **Using Post-Consumer Tyres in a Range of New Applications: Pipe Sealing**
- **Development of Light Weight Compostable Packaging- Sainsburys**
- **Demonstration trial of Recycled HDPE into Milk Bottles- WRAP**