



**Plantic Technologies Limited**

**Australian Packaging Covenant**

**Action Plan 2013-2018**

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## **Plantic Technologies Company Statement**

Plantic Technologies Ltd are pioneers in developing bioplastics, in both renewable sourced and 100% biodegradable products. We have developed bioplastics alternatives to conventional plastics based on corn. Since corn is one of the most widely cultivated and economically raised crops on the planet, this ensures a diverse range of raw materials that can be produced cost-effectively, without complicated manufacturing processes or unnecessary wastage.

As an Australian-based company, Plantic Technologies Ltd is proud to be part of a new era in accountable science, dedicated to ensuring a healthier environment, reducing waste and waste management costs, while providing all the advantages of the 'old' technology in terms of flexibility and functionality. Our goal is to redefine the nature of plastics across the board and around the globe. We want to lead the revolution in bioresponsible technology at all levels, from the classrooms to the boardrooms, and all the manufacturing facilities and shopping aisles in between.

The Australian Packaging Covenant Action Plan is a key element in guiding decision making and activity at Plantic Technologies relating to ongoing improvements in the company's environmental performance. This Action Plan clearly sets out the key actions and performance measures that Plantic Technologies is committed to achieving over the period from 2013- 2018.

Plantic's single-minded commitment is to provide bioresponsible material solutions for the world market that deliver all the functionality of conventional petrochemically derived plastics in an economical and ecosensitive way.



**Brendan Morris**  
**Managing Director and Chief Executive Officer**

**Plantic Technologies Limited**  
**ABN 71 097 524 975**

## **Plantic Technologies Company Profile**

Plantic Technologies Limited is a world leading innovator in bioplastics, with a track record of science and industry awards, an international network of corporate customers and distributors, and a growing list of premium quality multinational research and development partners.

Plantic Technologies Ltd is based in Australia, where its head office, principal manufacturing and Research & Development facility is located. The company also has an Application & Development & Sales centre in Germany with Sales offices also expanding as far as the United States of America.

### **A New Approach to Plastic**

Plantic Technologies Ltd has achieved a unique place in the world market for bioplastics through proprietary technology that delivers biodegradable and renewable sourced alternatives to conventional plastics based on corn; which is not genetically modified. Unlike other bioplastics companies who utilise organic materials but whose polymers are still developed in refineries, Plantic's polymer as well as its raw material, are grown in a field. The entire process integrates the science of organic innovation with commercial and industrial productivity in a new way. The result is both a broad range of immediate performance and cost advantages, and long-term environmental and sustainability benefits.

Plantic Technologies is also the parent company of Plantic Tribond – a 100% owned subsidiary company. This Action Plan covers also the operation of this subsidiary company. The Plantic group operate facilities across 2 sites in Australia.

### **Place in the Packaging Supply Chain**

Plantic Technologies and its subsidiaries are classified as packaging manufacturers.

### **APC Contact Officer**

For further information about Plantic's Australian Packaging Covenant activities, contact

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## Australian Packaging Covenant Action Plan

### APC Objective 1 – Design: Optimise packaging to use resources efficiently and reduce environmental impact without compromising product quality and safety

Action		Target	Timing	Measurement	Baseline	Responsibility
1	Conduct packaging assessments on existing packaging manufactured, in accordance with the Sustainable Packaging Guidelines (SPG)	Review the majority(>70%) of existing packaging  Remainder of existing packaging	Majority June 2014  Dec 2014	Number of Assessments added to the Sustainable Packaging Database.	Database for storing assessments has been identified. No products have currently been assessed	Product Application Manager
2	Conduct packaging assessments on new packaging designed in the future, in accordance with the Sustainable Packaging Guidelines (SPG)	Review all new packaging	Annual	Number of Assessments added to the Sustainable Packaging Database.	Database for storing assessments has been identified. No new products have currently been assessed	Product Application Manager
3	Implement findings of the assessment review conducted in 1 and 2 above	Implement findings within six months of identification	Annual	Number of findings implemented added to the Sustainable Packaging Database.	Database for recording findings that have been implemented has been identified. No findings have yet been identified.	Product Application Manager
4	Optimise packaging format for Premade trays. Maximise pallet and transport efficiency	Increase trays packed on a pallet	Annual	Number of 9*7 trays on a standard and export pallet	Current number of trays updated each year	Product Application Manager and Supply chain manager
5	Report the Life Cycle impacts of Plantic materials	Conduct LCA's on our Plantic eco Plastic R. Target being to improve the environmental performance of Plantic packaging over the previous LCA	June 2014	Complete updated LCA and compare to the current LCA	Current LCA	General Manager - Technology

## Australian Packaging Covenant Action Plan

APC Objective 2 Recycling and reduce waste: Efficiently collect and recycle packaging						
	Action	Target	Timing	Measurement	Baseline	Responsibility
1	Recycle cardboard plastic, paper and recyclable containers generated on - site.	Maintain Programs in place at both sites	Annual review	On site recycling to be monitored through internal audit process and measurement	Currently all sites have on site recycling systems	Operations Manager
2	Reduce waste generated at sites	Annual Reduction in waste in percentage terms of saleable production	Annual review	Environmental data per tonne of packaging produced	Data collection system	Operations Manager
3	Conduct information sessions to educate employees	2 sessions per year	1 session to be held every 6 month period	Number of information sessions held	Data Collection system	Operations Manager
4	Develop a policy which shows a commitment will be made to buy more recycled materials where possible	Increase use of recycled materials	Policy to be implemented by June 2014 and Annual review will be conducted thereafter	Number of different recycled items purchased	Data collection system	Operations Manager

**APC Objective 3 – Product Stewardship**

Action		Target	Timing	Measurement	Baseline	Responsibility
1	Assist customers in publishing reliable environmental information about their use of Plantic environmentally sustainable products	Review customer statements through LCA assessments	Annual review	The number of customers who elect to take up the sustainability services offered  >70% of customer publish environmental benefit of using Plantic materials	Number of customers that currently take up sustainability services offered  Currently >50% publish	Product Application Manager
2	Introduce education program for staff in environmental management and sustainability	Increase awareness in environmental management and sustainability by conducting training 2 times per year	Ongoing	Number of training sessions conducted	Currently no staff environmental training sessions are conducted	HR Manager
3	Conduct Research and development into improving the environmental performance of packaging	Keep informed of new technology and improvements in renewable technologies	ongoing	Number of conferences attended. Number of technology applications implemented	This investigation is currently being completed, however has not been adopted	General Manager - Technology
4	Reduce the amount of packaging in the litter stream	Prepare educational packs for Primary schools and Secondary Schools to use in class room.	June 2014	Number of schools using packs  2014 : 15 Schools	Send out packs and obtain feedback for continuous improvement and update	Product Application Manager