



PUBLIC DISCLOSURE STATEMENT

BIOPAK PTY LTD

**PRODUCT CERTIFICATION
CY2020**

Australian Government
Climate Active
Public Disclosure Statement



NAME OF CERTIFIED ENTITY: BioPak Pty Ltd (ABN: 48 119 998 711)

REPORTING PERIOD: 1 January 2020 – 31 December 2020

Declaration

To the best of my knowledge, the information provided in this Public Disclosure Statement is true and correct and meets the requirements of the Climate Active Carbon Neutral Standard.

Signature

Date 16 August 2021

Name of Signatory
Richard Fine

Position of Signatory
Founder and Non Executive zdirector



Australian Government
Department of Industry, Science,
Energy and Resources

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Version number February 2021

1. CARBON NEUTRAL INFORMATION

Description of certification

This inventory has been prepared for the calendar year from 1 January 2020 to 31 December 2020 and covers the sale and use of BioPak products in Australia and internationally.

The base year for comparison has been reset to the current reporting period because:

- BioPak acquired a company making similar products and also expanded the range of products for sale. The products sold by this company are now sold under the BioPak brand.
- A change from a *cradle to gate* LCA to a full *cradle to grave* LCA which takes into account end of life emissions.
- A change in the method for calculating the material and factory emissions from the manufacturing of the products.

The Australian business operations of BioPak, ABN: 48 119 998 711, are included within this certification boundary and are also certified as carbon neutral by Climate Active.

Considering the large variety of products sold to customers, it was not practical or cost effective to carry out separate Life Cycle Assessments (LCAs) for each type of product. The approach taken was to categorise the BioPak product range into eighteen product categories based on the product type and material of construction. Total emissions for each of these categories were calculated and the emissions per product item estimated based on the total number of units sold.

Functional unit

The functional unit in the product LCA is a single BioPak item (i.e. one coffee cup, one food container etc.) sold and used in Australia and internationally.

Organisation description

BioPak is a supplier of a range of foodservice disposable items such as coffee cups, takeaway containers, plates and produce trays. BioPak is focused on replacing fossil fuel-based plastics used in food services wares by offering compostable alternatives made from rapidly renewable sustainably sourced materials.

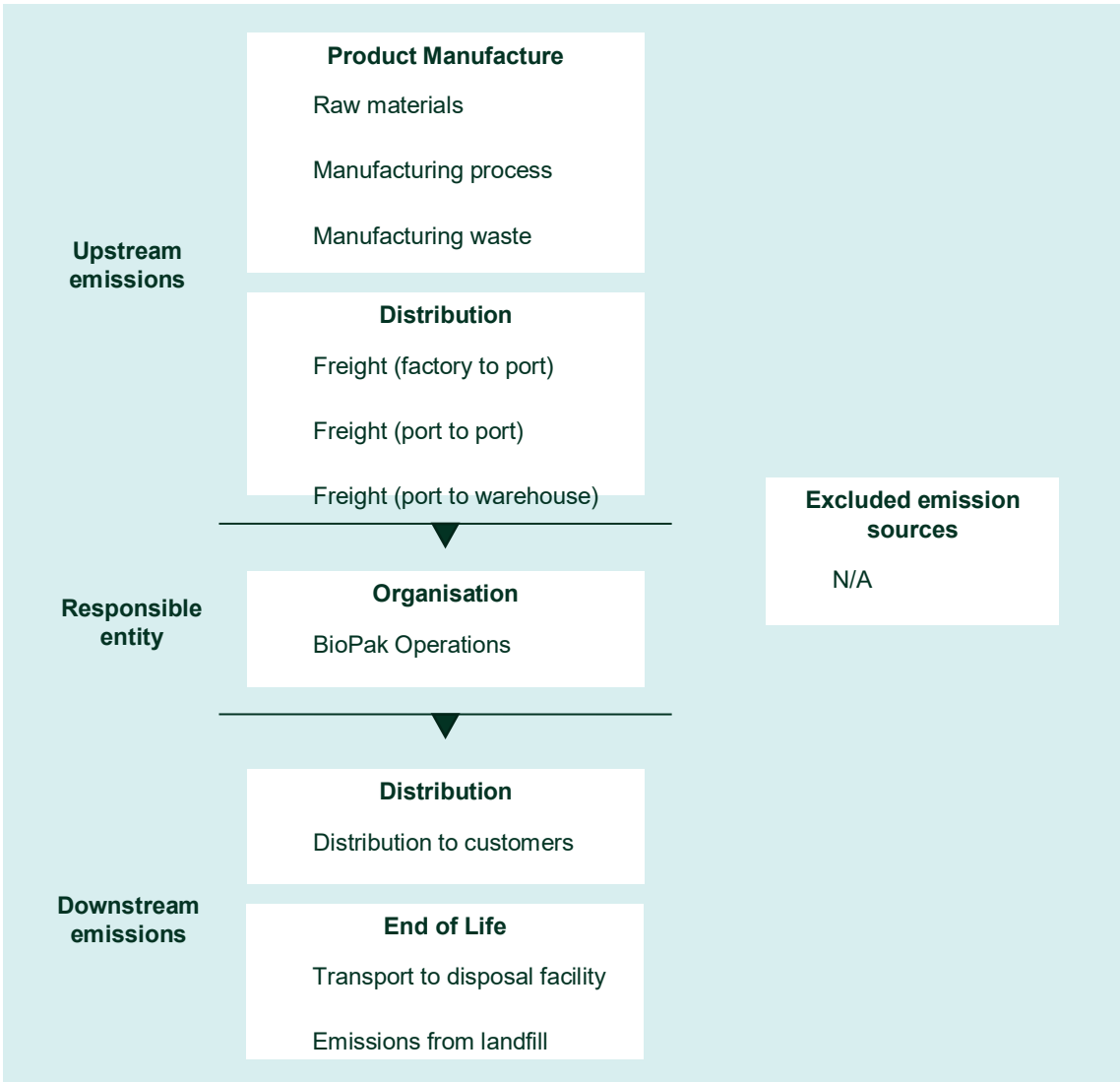
As a socially and environmentally responsible business, and a certified B Corporation, we are working together with industry bodies, local councils, waste collectors and the waste industry to ensure that our products can be composted.

BioPak has been certified carbon neutral for its Australian business operations (organisation) and its entire product range sold within Australia (carbon neutral products), New Zealand, Singapore and the UK.

“BioPak has always relied on trusted certifications to demonstrate its environmental claims. Climate Active provides a transparent process and a credible stamp to certify that both our Organisation and our products are carbon neutral.”

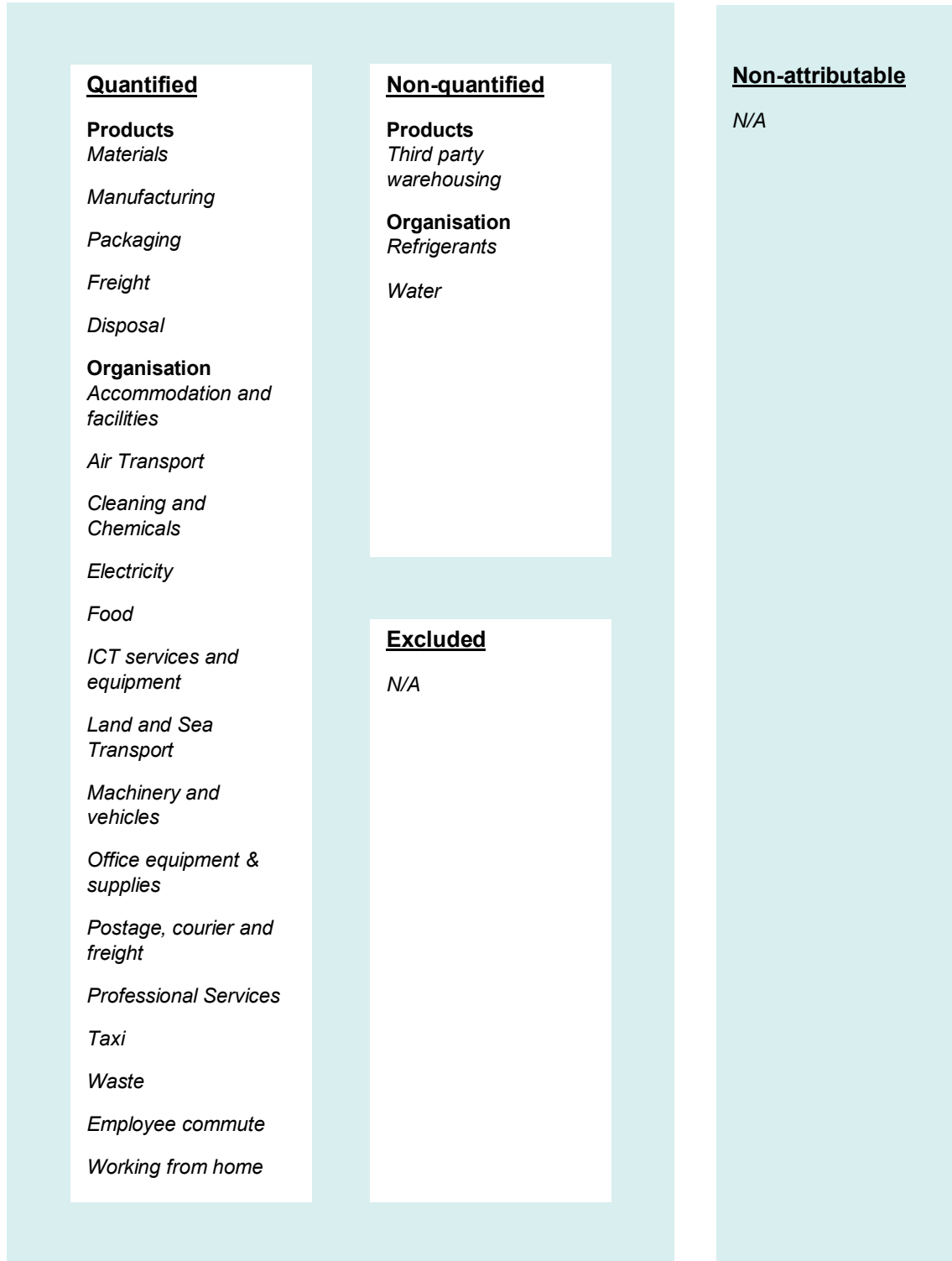
Product/service process diagram

The following diagram is cradle to grave.



2. EMISSION BOUNDARY

Diagram of the certification boundary



Attributable non-quantified sources

For BioPak products, emissions associated with third party warehousing are estimated to be immaterial.

For BioPak's organisation, emissions from refrigerant gases in base building air conditioning and kitchen fridges, and water use in base building are also estimated to be immaterial.

Data management plan

N/A

Excluded sources (within certification boundary)

N/A

Non attributable sources (outside certification boundary)

N/A

"Climate Active provides an excellent framework for BioPak to align with on our Net Zero journey."

3. EMISSIONS SUMMARY

Emissions reduction strategy

Our long-term carbon reduction strategy is to work with our suppliers to reduce the carbon emissions embodied in the products we purchase. We will work with our supply chain to derive efficiency in the manufacturing process and encourage the use of renewable energy where possible. We will also look to use materials that have a lower carbon footprint.

Our Compost Connect initiative will help connect the foodservice industry with the compost industry. This will allow more food waste and compostable packaging to be diverted from landfill (reduced methane emissions).

We are also working with our retail customers (supermarkets for instance) to replace some of their single plastic products with sugarcane alternatives.

A more detailed emissions reduction strategy with timeframes and measurable targets will be developed over the next two years.

Emissions over time

The base year has been reset to the current reporting period because:

- BioPak acquired a company making similar products and also expanded the range of products for sale. The products sold by this company are now sold under the BioPak brand.
- A change from a *cradle to gate* LCA to a full *cradle to grave* LCA which takes into account end of life emissions.
- A change in the method for calculating the material and factory emissions from the manufacturing of the products.

Emissions reduction actions

Our Compost Connect initiative that connects the foodservice industry with the compost industry has been partially funded by the Federal Government through the National Product Stewardship Investment Fund for the next 2 years.

We have initiated a project with Woolworths to replace plastic food trays for baked goods with products made from renewable sugarcane fibre which have a lower carbon footprint. This project was shortlisted for the was shortlisted by the Banksia Award this year.

In the next 12 months we are developing an alternative to coffee cup plastic lids made from renewable materials.

Our paper cup manufacturer is installing solar panels on their roof to cover 10% of their energy.

Functional units

Table 1: Summary of Functional Units

	Number of functional units
<i>a) Number of functional units sold this period</i>	2,428,749,987
<i>b) Number of functional units to be forward offset demonstrating commitment to carbon neutrality (true-up to be conducted at the end of the reporting period)</i>	0

Emissions summary (inventory)

Table 2: Emissions Summary

Emission source category	tonnes CO ₂ -e
Raw Materials	4,591.327
Manufacturing	12,286.253
Packaging	3,686.523
Freight	5,385.663
Organisation	313.549
Distribution to Customers	1,076.895
Disposal	52,818.419
1. Total inventory emissions	80,158.630
<i>a. Number of functional units represented by the inventory emissions</i>	2,428,749,987
2. Emissions per functional unit (based on the number of functional units represented by the inventory) <i>Total tCO₂-e divided by the number of functional units in 1a.</i>	0.000033004068116374
3. Carbon footprint <i>(Emissions per functional unit (2) * number of functional units (a or b from table 2))</i>	80,158.630

Table 3: Product Emissions Summary by Family (Excludes Organisation Emissions)

BioPak Product Family	tonnes CO ₂ -e
BioBag	691.428
BioCane Plates, Bowls and Trays	4,643.623
BioCane Produce Trays	3,340.460
BioCane Takeaway Containers	12,741.128
CPLA Lids	1,444.008
Labels	16.585
Napkins	3,268.346
Paper bags	3,402.842
Paper straws	578.565
Paperboard Boxes & Trays	8,051.455
PET Lids	2,608.457
PLA Cold Cups, Bowls and Lids	5,635.150
PLA Cutlery	1,737.142
Plastic Gloves	106.823
PS Lids	3,518.033
Single & Double wall hot cups	27,518.431
Wood cutlery	-692.030
Wrap Paper	1,234.636
Total Net Product Emissions	79,845.081

Uplift factors

Table 4: Uplift Summary

Reason for uplift factor	tonnes CO ₂ -e
N/A	N/A
Total uplift factors	0
Total to offset (Carbon footprint + total uplift factors)	80,158.630

Carbon neutral products

Reflex 100% recycled carbon neutral paper

This assessment and Climate Active submission was prepared with the assistance of [Pangolin Associates](#) and these services are also carbon neutral.

4. CARBON OFFSETS

The details of offsets relating to this certification are the same as those in the BioPak Organisation PDS, found [here](#).

5. USE OF TRADE MARK

Table 5

Description where trademark used	Logo type
Website, marketing collateral and publications	Certified product

6. ADDITIONAL INFORMATION

Additional offsets purchased

In addition to the above, Biopak has purchased 534 biodiverse carbon offsets from Greenfleet.

Greenfleet is a leading environmental not-for-profit organisation which plants native trees to restore forests and offset carbon emissions on behalf of its supporters. Since 1997, Greenfleet has planted more than 9.2 million native trees across 500 biodiverse forests in Australia and New Zealand.

As they grow, Greenfleet's native forests capture carbon pollution from the atmosphere, reduce salinity and soil erosion, restore vital habitat for native wildlife, conserve biodiversity and generate resilience to climate change in the landscape.

Native wildlife supported by Greenfleet's forests includes Koalas, Brush-tailed Phascogales and the Glossy Black Cockatoo.

The Greenfleet carbon offsets purchased by Biopak will contribute to future local native reforestation projects such as Witzend, NSW - this 2019 planting site is home to a population of Koalas and will be protected by the private landowner and Greenfleet for 135 years

Greenfleet carbon offset donations are allocated to native reforestation projects via a whole-of-portfolio approach and projects vary year to year.

More information about Greenfleet and our projects can be found at:

- www.greenfleet.org.au

- www.greenfleet.com.au/Portals/0/AnnualReview/Greenfleet_2018_Impact-Report.pdf

Additional sustainability actions

BioPak has been a certified B-Corp since 2017. B Corporations are businesses that are required to consider the impact of their decisions on their workers, customers, community, and environment. Certified B Corporations have met the highest standards of verified performance and transparency.

We donate 1% of our profits to environmental restoration initiatives with Rainforest Rescue (Australia) and Forest & Bird (New Zealand), and produce a BioCup Art Series to promote artists whose work raises awareness and reconnects consumers with the environment.

We also donate our time, energy and products to community programs in conjunction with our charity partners.

● APPENDIX 1

Non-attributable emissions for products and services

To be deemed attributable an emission must meet two of the five relevance criteria. Non-attributable emissions are detailed below against each of the five criteria.

Table 6

Relevance test					
Non-attributable emission	<i>The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions</i>	<i>The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.</i>	<i>Key stakeholders deem the emissions from a particular source are relevant.</i>	<i>The responsible entity has the potential to influence the reduction of emissions from a particular source.</i>	<i>The emissions are from outsourced activities previously undertaken within the organisation's boundary, or from outsourced activities typically undertaken within the boundary for comparable organisations.</i>
N/A	N/A	N/A	N/A	N/A	N/A

● APPENDIX 2

Non-quantified emissions for products/services

Table 7

Non-quantification test				
Relevant-non-quantified emission sources	<i>Immaterial <1% for individual items and no more than 5% collectively</i>	<i>Quantification is not cost effective relative to the size of the emission but uplift applied.</i>	<i>Data unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.</i>	<i>Initial emissions non-quantified but repairs and replacements quantified</i>
Third party warehousing	Yes	No	No	No
Refrigerants	Yes	No	No	No
Water	Yes	No	No	No

