



PUBLIC DISCLOSURE STATEMENT

BIOPAK PTY LTD

ORGANISATION 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 Director



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 Australian business operations of BioPak, ABN: 48 119 998 711.

The base year for comparison has been reset to the current reporting period because BioPak acquired a company making similar products. The products sold by this company are now sold under the BioPak brand.

All products sold by BioPak in Australia, New Zealand, Singapore and the UK are included in this certification boundary and are certified as carbon neutral products under a separate Climate Active product certification.

The operational boundary has been defined based on an operational control test, in accordance with the principles of the National Greenhouse and Energy Reporting Act 2007. This includes the following locations and facilities:

- Suite 202/59-75 Grafton Street, Bondi Junction 2022 NSW
- Suit 8.02 Level 2 372 Albert Street, East Melbourne 3002 VIC

International offices and remote workers have not been included in the boundary of this certification.

The methods used for collating data, performing calculations and presenting the carbon account are in accordance with the following standards:

- Climate Active Standards
- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- National Greenhouse and Energy Reporting (Measurement) Determination 2008

Where possible, the calculation methodologies and emission factors used in this inventory are derived from the National Greenhouse Accounts (NGA) Factors in accordance with "Method 1" from the National Greenhouse and Energy Reporting (Measurement) Determination 2008.

The greenhouse gases considered within the inventory are those that are commonly reported under the Kyoto Protocol; carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O) and synthetic gases - hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) sulphur hexafluoride (SF₆) and nitrogen trifluoride (NF₃). These have been expressed as carbon dioxide equivalents (CO₂-e) using relative global warming potentials (GWPs) as specified in the 2014 IPCC Assessment Report 5 with a 100 year horizon.

"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."

Organisation description

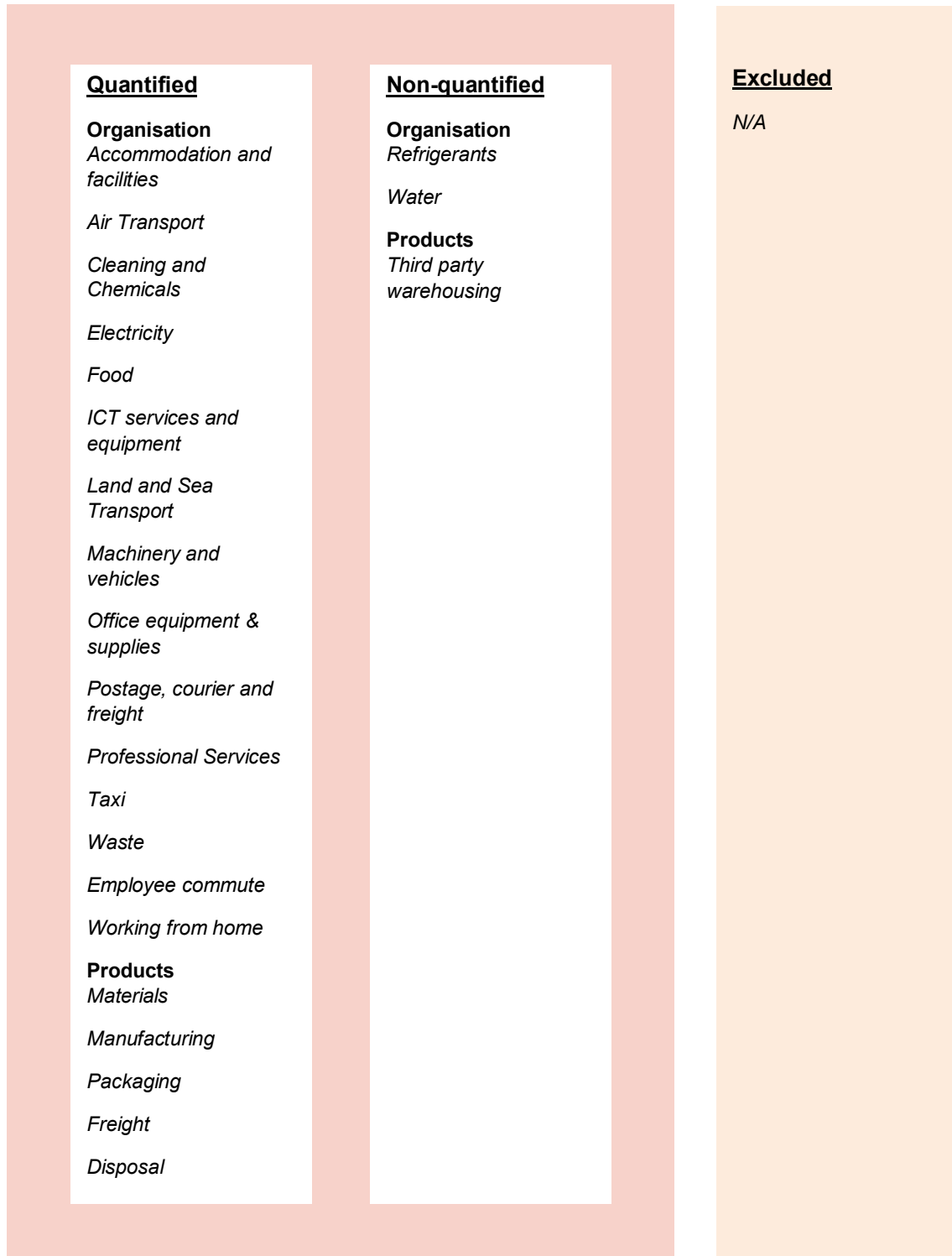
BioPak is a supplier of a range of foodservice disposable items such as coffee cups, takeaway containers, plates and produce trays. BioPak is focused on replacing fossil fuel-based plastics used in food services wares by offering compostable alternatives made from rapidly renewable sustainably sourced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

2. EMISSION BOUNDARY

Diagram of the certification boundary

This boundary includes BioPak's products, which are also certified carbon neutral under a separate Climate Active product certification.



Non-quantified sources

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

For BioPak products third party warehousing is also estimated to be immaterial.

Data management plan

N/A

Excluded sources (outside of 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 emission reduction strategy is to reduce energy use, materials and waste in our offices and use renewable energy as far as possible.

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

Emissions reduction actions

In the next 12 months we are investigating joining the City Switch program for the Sydney office. City Switch helps office-based businesses improve their energy and waste efficiency.

In the next 2 years solar panels will be installed at the UK warehouse

We are in discussion with our logistic partners to either install solar panels on their warehouses or buy green energy.

Emissions summary (inventory)

Table 1: Emissions summary

Emission source category	tonnes CO ₂ -e
Accommodation and facilities	0.718
Air Transport (km)	4.248
Cleaning and Chemicals	3.244
Electricity	43.067
Food	25.188
ICT services and equipment	25.189
Land and Sea Transport (fuel)	1.819
Land and Sea Transport (km)	10.350
Machinery and vehicles	3.120
Office equipment & supplies	26.059
Postage, courier and freight	70.175
Professional Services	85.856
Taxi	0.099
Waste	4.137
Working from home	10.279
Product materials	4,591.327
Product manufacturing	12,286.253
Product packaging	3,686.523
Product freight	5,385.663
Distribution to Customers	1,076.895
Product Disposal	52,818.419
Total Net Emissions	80,158.630

Uplift factors

Table 2: Summary of uplifts

Reason for uplift factor	tonnes CO ₂ -e
N/A	N/A
Total footprint to offset (uplift factors + net emissions)	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.

Electricity summary

Electricity was calculated using a market-based approach.

Table 3: Market-based approach summary

Market-based approach	Activity Data (kWh)	Emissions (kgCO ₂ -e)	Renewable %
Behind the meter consumption of electricity generated	0	0	0.0%
Total non-grid electricity	0	0	0.0%
LGC Purchased and retired (kWh) (including PPAs)	0	0	0.0%
GreenPower	33,337	0	36.7%
Jurisdictional renewables	0	0	0.0%
Residual Electricity	39,943	43,067	0.0%
Large Scale Renewable Energy Target (applied to grid electricity only)	17,537	0	19.3%
Total grid electricity	90,817	43,067	56.0%
Total Electricity Consumed (grid + non grid)	90,817	43,067	56.0%
Electricity renewables	50,874	0	
Residual Electricity	39,943	43,067	
Exported on-site generated electricity	0	0	
Emission Footprint (kgCO ₂ -e)		43,067	

Emission Footprint (tCO₂-e)	43
LRET renewables	19.3%
Voluntary Renewable Electricity	36.7%
Total renewables	56.0%

Table 4: Location-based approach summary

Location-based approach	Activity Data (kWh)	Emissions (kgCO ₂ -e)
NSW	82,002	73,802
Vic	8,815	9,608
Grid electricity (scope 2 and 3)	90,817	83,410
Total Electricity Consumed	90,817	83,410

Emission Footprint (tCO₂-e)	83
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The location-based summary is included for transparency purposes but was not used in this emissions assessment.

4. CARBON OFFSETS

Offsets strategy

Table 5: Offset summary

Offset purchasing strategy: In arrears

1. Total offsets previously forward purchased and banked for this report	63,696
2. Total emissions liability to offset for this report	80,159
3. Net offset balance for this reporting period	16,463
4. Total offsets to be forward purchased to offset the next reporting period	97,777
5. Total offsets required for this report	80,159

The details of offsets relating to this certification also cover the BioPak Product certification. The relevant PDS can be found [here](#).

Co-benefits

Liucheng Biomass Power Generation Project

The proposed project will construct a biomass residues power generation plant with the biomass residues from mulberry leaf and sugarcane leaf discarded by local farmers in Liucheng County. Biomass is an organic matter that, through direct-burning boilers and steam turbines and generators, will provide electricity to the South China Power Grid. Liucheng's total installed capacity is 30 MW. With an annual operation of 6,000 hours, the generated electricity is 180,000 MWh. This project can provide almost 158,000 MWh of grid-connected clean energy generation.

The proposed project will contribute to sustainable development in the region by using biomass residues resources effectively, promoting a recycle economy, increase local power supply, reduction in air pollutant emissions by not using fossil fuels, accelerate local economic development and create employment opportunities.

Parbati Hydroelectric Project Stage III

NHPC Limited's Parbati Hydroelectric Project, Stage III is Greenfield Hydro Power Project located on river Sainj and Jiwa nallah a tributary of Beas River near village Bihali, Kullu district of Himachal Pradesh state of India. It is a run-of-the-river scheme whose design discharge includes the diversion of the tail race releases of Parbati Stage-II Power house as well as inflows from river Sainj and Jiwa nallah. The purpose of the project activity is to generate electrical power using hydel energy, through the operation of run of the river hydro turbines. The hydel energy generated from the hydel power plant is evacuated to the State Grid System which is part of NEWNE Grid. Generating power through hydel plant is a clean technology as no Carbon intensive fossil fuel is burnt during the process. A hydel turbine produces power by harnessing the available potential energy. Thus, there are no GHG emissions associated with the functioning of the hydro turbines. This in result replaces anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 1,912,324 tCO₂e per year, thereon displacing 1,975,950 MWh/year amount of electricity from the grid.

Socio-economic well being:

Project activity has generated direct and indirect employment for skilled and unskilled manpower during construction phase as well as during operational stage and thus helped in controlling migration from the region and alleviation of poverty.

The project activity's contribution of power supply towards the NEWNE grid is helping in the upliftment of the social life of the people by ensuring a sustainable and reliable source of power for the region.

The Project activity has improved the infrastructural facilities like water availability, road, and medical facilities etc in the region.

Environmental well being:

The project activity generates clean and green power thus causing negligible emissions of green house gases. By building and operating the Hydro power project, much pollution is avoided. In the absence of the project activity, equivalent power would have been generated based on the fossil fuels resulting in more Green House Gas emissions into the atmosphere.

The project activity has reduced the dependence on fossil fuels for power generation thus conserving the natural reserves. The project has lead to green house gas emission reduction and hence contributed in mitigating climate change.

Offsets summary

Proof of cancellation of offset units

Table 6: Details of offsets

Offsets cancelled for Climate Active Carbon Neutral Certification										
Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Eligible Quantity (tCO ₂ -e)	Quantity used for previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period claim	Percentage of total (%)
Liucheng Biomass Power Generation Project	VCU	Verra	11 Jun 2020	6658-330335600-330399295-VCU-034-APX-CN-1-1824-01012014-31122014-0	2014	63,696	0	0	63,696	79%
Parbati Hydroelectric Project Stage III	VCU	Verra	01 Jun 2021	9571-109960627-109977089-VCS-VCU-1491-VER-IN-1-1425-24032014-28122014-0	2014	16,463	0	0	16,463	21%
Parbati Hydroelectric Project Stage III	VCU	Verra	01 Jun 2021	9571-109820627-109916083-VCS-VCU-1491-VER-IN-1-1425-24032014-28122014-0	2014	95,457	0	95,457	0	0%
Parbati Hydroelectric Project Stage III	VCU	Verra	01 Jun 2021	9571-109977090-109979409-VCS-VCU-1491-VER-IN-1-1425-24032014-28122014-0	2014	2,320	0	2,320	0	0%
Total offsets retired this report and used in this report										80,159
Total offsets retired this report and banked for future reports										97,777

Type of offset units	Quantity (used for this reporting period claim)	Percentage of Total
Verified Carbon Units (VCUs)	80,159	100%

5. USE OF TRADE MARK

Table 7: Use of trade mark

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

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

Excluded emissions

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

Table 8: Relevance test

Relevance test					
Excluded emission sources	<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 organisations

Table 9: Non-quantification test

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>
Refrigerants	Yes	No	No	No
Water	Yes	No	No	No
Third party warehousing	Yes	No	No	No

