

PUBLIC DISCLOSURE STATEMENT

PAPER AUSTRALIA PTY LTD
(TRADING AS OPAL AUSTRALIAN PAPER)

PRODUCT CERTIFICATION CY2023

Australian Government

Climate Active Public Disclosure Statement







NAME OF CERTIFIED ENTITY	Paper Australia Pty Ltd (trading as Opal Australian Paper)
REPORTING PERIOD	1 January 2023 – 1 November 2023
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.
	Craig Dunn General Manager, Public Relations & Sustainability 15/03/2024



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Version March 2022. To be used for FY20/21/CY2021 reporting onwards.



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	36,940 tCO2-e
THE OFFSETS BOUGHT	100% VCUs
RENEWABLE ELECTRICITY	N/A
TECHNICAL ASSESSMENT	26/09/2022 Paul-Antoine Bontinck Life Cycle Strategies Pty Ltd Next technical assessment due: 26/09/2025

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2. CARBON NEUTRAL INFORMATION

Description of certification

This certification covers all the activities undertaken to produce paper products sold as carbon neutral at the Maryvale Mill. It covers the raw materials, production, packaging, distribution, and disposal of the products.

Product description

Opal Australian Paper (Opal) is a leading producer Australian producer of packaging paper and board, manufacturing from its mill at Maryvale, in the Latrobe Valley, Victoria.

Opal produces a wide range of packaging grades including sack papers, bag papers, kraft liner board, fluting medium and industrial papers.

Opal previously manufactured a wide range of white paper including copy paper. Due to an unplanned wood supply issue in late 2022, Opal's Maryvale Mill stopped manufacturing white carbon neutral paper from December 2022. As a result of this situation Opal is no longer producing carbon neutral white paper under the Climate Active program.

Approximately 15,000 tonnes of Carbon Neutral certified paper products were sold during the reporting period. Opal confirms that all stocks of carbon neutral branded paper were sold through to the

Australian market prior to the end of the reporting period on 1 November 2023. The product produced by Opal includes a proportion sold as carbon neutral under the Climate Active logo.

The functional unit is one tonne of certified paper product.

The product assessment is from cradle to grave.

The emissions included in the inventory include all greenhouse gases CO2, CH4, N2O, HCFs, PFCs, SF6, HCFCs and CFCs.

"Opal values our Climate Active certification as an effective and credible way to demonstrate sustainability leadership to our customers and consumers, through a comprehensive range of carbon neutral products all proudly made in Australia."



Description where trademark used	Logo type
Opal website	Climate Active Network
	Member Logo
Reflex website	Climate Active Network
	Member Logo
Presentation	Climate Active Network
	Member Logo
Fact sheets	Climate Active Carbon
	Neutral Product Logo
Product technical information sheet	Climate Active Carbon
	Neutral Product Logo
Product guide	Climate Active Carbon
	Neutral Product Logo
Opal branded copy paper includes:	Climate Active Carbon
Australian Office, Australian 100%, Brilliant, Reflex 100% Recycled, Reflex	Neutral Product Logo
50% Recycled, Reflex Blue, Reflex Gold, Reflex Green, Reflex Pink, Reflex	
Sand, Reflex Yellow, Reflex Ultra White, Universal, Victory High	
Customer branded copy papers includes:	Climate Active Carbon
Aspire, Bibbulmun, COS, Ebony, FujiFilm, Mandura, Nallawilli, Office	Neutral Product Logo
Choice, Office National, OPD, Planet Ark Paper, Winc	
The above brands are manufactured by Opal but are not owned by Opal	

The Opal printing papers that were manufactured and sold without trademarks are: Australian Smooth, Census Jet, Data Right Plus, Jet Mail, New Inkjet Smooth, PBS Laser, Postspeed, Publish Offset, Recycled 100%, Reflex Laser White, Revive Laser, Sensi Jet, Sensi Scanright, Stikki Bond. These papers are considered as carbon neutral and their sales are included in the total functional units offset in the report.



3.EMISSIONS BOUNDARY

Inside the emissions boundary

All emission sources listed in the emissions boundary are part of the carbon neutral claim.

Quantified emissions have been assessed as 'attributable processes' that become the product, make the product and carry the product through its life cycle. These have been quantified in the carbon inventory.

Non-attributable emissions have been optionally included in the emissions boundary and are offset as part of the certification boundary.

Outside the emissions boundary

Non-attributable emissions have been assessed as not attributable to a product or service. They can be optionally included in the emissions boundary and therefore have been offset, or they can be listed as outside of the emissions boundary (and are therefore not part of the carbon neutral claim).



Inside emissions boundary Quantified Non-quantified N/A Water Freight Process waste and wastewater Product end-of-life Attributable (excluded) Electricity Office equipment and Stationary (Heat) Energy consumables Packaging Paper machine consumables Pulp Offsite finishing and Timber processing. Recycled fibre **Optionally included** N/A

Outside emission boundary Non-attributable

N/A



Product process diagram

The following diagram is cradle-to-grave.

Pulp and fibre inputs

- Pulp
- Timber
- Recycled fibre

Upstream emissions

Other inputs

- Chemicals
- Packaging
- Water
- Freight for chemicals and fibre

Excluded emission sources

- Office equipment and consumables
- Paper machine consumables
- Offsite finishing and processing.

Paper production

- Electricity
- Heat
- On-site waste and wastewater treatment

Production/Service delivery

Transport to market

- Road transport
- Shipping and rail



Downstream emissions

Process and end-of-life waste

- End-of-life paper to landfill
- Offsite waste and wastewater treatment



Data management plan for non-quantified sources

There are no non-quantified sources in the emission boundary that require a data management plan. The emission sources listed under non-quantified sources in the emissions boundary diagram are excluded emission sources.



4. EMISSIONS REDUCTIONS

Emissions reduction strategy

Opal is committed to environmental sustainability and ongoing improvements in our operations. Opal's Sustainability and Environment Policy commits to

- develop, implement, and monitor objectives and measurable targets to address environmental issues and promote positive outcomes,
- continue our transition to a low carbon energy supply by exploring sustainable energy alternatives,
- pursue energy efficiency gains to drive a reduction in emissions, and
- ensure the responsible use of natural resources throughout our business, including the conservation of biodiversity and efficient use of energy, water, and materials.

On 1 May 2020 Paper Australia Pty Ltd finalised the acquisition of a number of fibre packaging manufacturing facilities to form the larger "Opal" group and the Maryvale Mill operations sit within Opal Australian Paper. Since then, Opal has developed a company-wide Energy and Greenhouse Gas Emissions Management Strategy which defines Opal's overall objective, greenhouse gas emission reduction goals and a high-level summary of the supporting strategies to achieve these goals.

Opal's overall objective is to "support Opal's profitable growth, create sustainable value for our customers and become the supplier of choice". Our goals are aligned with directions set by our parent company Nippon Paper Industries Co., Ltd,' and Opal has committed to:

- Reducing Greenhouse Gas Emissions
 - 45% reduction in greenhouse gas emissions (scope 1 and 2) by 2030 compared to FY21 baseline
 - Net zero greenhouse gas emissions by 2050
- Improving Energy Intensity
 - Reduce energy intensity on average by 1% each year over a rolling 5-year period

Emissions reduction actions

Opal's Maryvale Mill seeks to reduce its energy use year on year and has experienced mill-based engineering personnel who analyse, assess, and implement new projects across the site to ensure, to the extent practicable, those projects achieve reductions in the operational use of steam, gas and / or electricity.

Renewable energy sources: Approximately 60% of the electricity consumption at Maryvale is generated onsite by our renewable biomass boilers (40%) or very low emission sources (20%).

Energy from Process Waste: Recovery boilers provide over 50% of Maryvale's thermal demand through the combustion of black liquor and will continue to play a large role in providing low carbon process heat to Maryvale. Approximately 60% of Maryvale's thermal demand is supplied by renewable biomass sources with the remaining 40% supplied by natural gas.

Improving energy efficiency: Improvement projects are undertaken as part of our day-to-day operations,



which are centred around asset upgrades and energy efficiency improvement opportunites. These projects support our long-term objective of achieving continuous energy efficiency improvements and to meet our emission reduction targets.



5.EMISSIONS SUMMARY

Emissions over time

Emissions since base year						
		Total tCO ₂ -e	Emissions intensity of the functional unit			
Base year:	2012	109,137	2.49			
Year 1:	2013	169,518	2.56			
Year 2:	2014	158,944	2.60			
Year 3:	2015	179,881	2.67			
Year 4	2016	230,186	2.38			
Year 5	2017	300,985	2.35			
Year 6	2018	331,631	2.50			
Year 7	2019	294,881	2.51			
Year 8	2020	281,670	2.39			
Year 9	2021	264,962	2.41			
Year 10	2022	230,192	2.29			
Year 11	2023	N/A	2.29			

Use of Climate Active carbon neutral products and services

Not applicable

Product emissions summary

Emissions intensity per functional unit t CO ₂ e/t paper	2.29
Number of functional units to be offset t	16,131
Total emissions to be offset t CO ₂ e	36,940



6.CARBON OFFSETS

Offsets retirement approach

Opal makes twice annual forward estimates of offset requirements based on combining the preceding reporting period's emissions intensity values and the sales forecast for paper products. During this period, Opal procures eligible offset units and retires them. Upon completion of the annual report we finalise procurement of remaining offsets and cancel/retire the final total as required in the annual report. If Opal retires more offsets during a reporting period in excess of those required, these are applied to future offset requirements covering carbon neutral product sales in subsequent reporting periods.

In a	arrears	
1.	Total number of eligible offsets banked from last year's report	3,874
2.	Total emissions footprint to offset for this report	36,940
3.	Total eligible offsets required for this report	33,066
4.	Total eligible offsets purchased and retired for this report	36,940
5.	Total eligible offsets banked to use toward next year's report	0

Co-benefits

Acknowledging the high proportion of renewable energy that Opal already produces from biomass fuel as a by-product from the pulping process, offsets are invested in alternative energy generation developments, that seek to substitute high-carbon energy sources by enhancing energy or fuel efficiency.

In 2023, Opal retired 33,066 offsets from the Hyundai Waste Energy Recovery Co-generation Project Phase II, a 400 MW cogeneration plant at the Dangjin Hyundai Steel Mill, a project managed by Hyundai Green power CO., Ltd. The cogeneration plant combusts excess waste gases including BFG (Blast Furnace Gas), COG (Coke Oven Gas) and LDG (Converter Gas) produced by the operations at the Dangjin Hyundai Steel Mill to generate electricity. Through this project, approximately 2,306,076 MWh electricity will be sent to the electricity grid, and steam will also be produced and sent to the Dangjin Hyundai steel mill. If the cogeneration facility was not operational, the rest of waste gases would be emitted to atmosphere after incineration, and the electricity generation would be supplied by other sources within the South Korean electricity grid.



Eligible offsets retirement summary

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	Stapled quantity	Eligible quantity (tCO ₂ -e)	Eligible quantity used for previous reporting periods	Eligible quantity banked for future reporting periods	Eligible quantity used for this reporting period	Percentage of total (%)
Hyundai Waste Energy Recovery CO- Generation Project Phase II, in Chungchongnam-do District, South Korea	VCU	Verra	20 April 2023	14697-621445875- 621526131-VCS-VCU- 260-VER-KR-1-1146- 01012017-30062017-0	2017	0	80,257	76,383	0	3,874	10%
Hyundai Waste Energy Recovery CO- Generation Project Phase II, in Chungchongnam-do District, South Korea	VCU	Verra	12 March 2024	15306-678626633- 678659698-VCS-VCU- 260-VER-KR-1-786- 01072017-31122017-0	2017	0	33,066	0	0	33,066	90%
Total offsets retired this report and used in this							sed in this report	36,940			
Total offsets retired this report and banked for future reports						0					

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Verified Carbon Units (VCUs)	36,940	100%



7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Currently, Opal does not surrender Renewable Energy Certificates to reduce emissions by market based reporting. Therefore, this section is not applicable.



APPENDIX A: ADDITIONAL INFORMATION

No additional offsets were cancelled for purposes other than Climate Active certification. Therefore, this section is not applicable.



APPENDIX B: ELECTRICITY SUMMARY

N/A



APPENDIX C: INSIDE EMISSIONS BOUNDARY

Excluded emission sources

Attributable emissions sources can be excluded from the carbon inventory, but still considered as part of the emissions boundary if they meet all three of the below criteria. An uplift factor may not necessarily be applied.

- 1. A data gap exists because primary or secondary data cannot be collected (no actual data).
- 2. Extrapolated and proxy data cannot be determined to fill the data gap (no projected data).
- 3. An estimation determines the emissions from the process to be **immaterial**.

	No actual data	No projected data	Immaterial
Office equipment and consumables	Yes	Yes	Yes
Paper machine consumables	Yes	Yes	Yes
Offsite finishing and processing.	Yes	Yes	Yes



APPENDIX D: OUTSIDE EMISSION BOUNDARY

Not applicable





