MACQUARIE University
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Sustainability Financing Framework

2024 Annual Report

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Sustainability Financing Framework – Annual Report

Purpose

Macquarie University is pleased to present its sixth Annual Report under the University's Sustainability Financing Framework (the **Framework**), covering the year ended 31 August 2024. The report provides detailed information on the use of proceeds from Sustainability Bonds across a range of projects that meet the eligibility criteria established within the Framework.

The Annual Report comprises:

Part I:	Overview of Sustainability Financing Framework
Part II:	Sustainalytics report
Part III:	Allocation of funds and use of proceeds
Part IV:	Impact reporting

Part I Overview of Sustainability Financing Framework

Part I: Overview of Sustainability Financing Framework

Introduction

Macquarie University was the first Australian university to access debt capital markets, raising A$250M in Australian medium-term notes in a 10-year transaction in September 2010.

During 2018 Macquarie University developed its ***Sustainability Financing Framework***, anchored in the Sustainable Development Goals established by the United Nations. The move towards sustainability financing has been part of the University's overall commitment to embed environmental and social considerations in processes and practices across our core activity areas.

The Sustainability Financing Framework was developed to govern how Macquarie University will enter into future Sustainability Financing Transactions, with proceeds earmarked to finance projects that deliver positive environmental and social outcomes. Through the Framework, the University aims to fund eligible social and green projects in line with the ICMA Sustainability Bond Guidelines and APLMA Green Loan Principles.

In September 2018 the University issued its first A$250M in medium term notes under the new Sustainability Financing Framework. This dual-tranche (10 year and 25 year) transaction involved 26 investors, 18 domestic and 8 international, expanding the University's already diverse investor base.

Macquarie University's 2018 A$250M dual tranche transaction was named *Sustainability Bond of the Year* by Environmental Finance.

In November 2019 the University returned to the debt capital markets to issue a further A$250M in medium term notes, again in a dual tranche (10.5 year and 25 year) transaction issued under the Sustainability Financing Framework. This issuance attracted 9 new investors, further diversifying the investors base.

Macquarie University launched in July 2023 a refinancing of $450M of bank facilities through a 5-year Sustainability Linked Loans (SLL) Framework, further extending Macquarie University ambitions in sustainability financing. This facility is the largest in the higher education sector in Australia. It is linked to six key performance indicators and uniquely Macquarie has committed all savings made over the life of the facilities will be directed to disadvantaged students through scholarships. Further information is available on this link announcing the launch of the Sustainability Linked Loan. The first two scholarships have been awarded in 2024 and support students in on campus accommodation.

The Sustainability Linked Loan was awarded by Environmental Finance in 2024 the 'Sustainability-linked Loan of the year – Other' for its unique structure and the reinvestment in student accommodation scholarships. Sustainability-linked loan of the year - other: Macquarie University: Environmental Finance (environmental-finance.com)

Macquarie University launched its 2024-2030 Sustainability Strategy with a vision to create sustainable change together, embedding the vision from the Sustainability linked loans and bonds frameworks. Our commitment is towards a regenerative future, where our environmental, social and economic areas thrive in harmony:

1. Transitioning to net zero greenhouse gas (GHG) emissions across our campus and supply chain

2. Playing our role as a steward to support ecosystem restoration and connection to place and Country
3. Building the resilience of our students, staff, and communities to respond to a changing world
4. Conducting and sharing impactful education and research that supports the global sustainability agenda

Transparent governance and respect for Indigenous knowledge is the foundation of our commitments and enables us to implement our Sustainability Strategy in an ethical, effective and culturally respectful way. The strategy can be found here.

Details of the sustainability bonds issued under the Sustainability Financing Framework are outlined in Table 1 below. 100% of the allocations have now been authorized in accordance with the Sustainability Financing Framework.

Table 1: Sustainability Bonds on Issue – 31 August, 2024

Transaction	Identifier/ISIN	Coupon	Term	Maturity	Principal Amount (A$ m)	Allocation (A$ m)	Spent up to 31st Aug 2024 (A$ m)	Further to Spend (A$ m)
2018 MTN	AU3CB0256279	3.50%	10yr	Sep 2028	200.0	200.0	200.0	-
2018 MTN	AU3CB0256295	4.50%	25yr	Sep 2043	50.0	50.0	50.0	-
2019 MTN	AU3CB0268399	2.25%	10.5yr	May 2030	160.0	160.0	83.7	76.3
2019 MTN	AU3CB0268472	3.10%	25yr	Nov 2044	90.0	90.0	90.0	-
	Total				**500.0**	**500.0**	**423.7**	**76.3**

Use of Proceeds

Proceeds from bonds issued under the Sustainability Financing Framework are allocated to eligible projects under the direction of the University's Finance and Facilities Committee (a committee of Council). As at 31 August 2024 the full $500M has been allocated to projects under the Framework (see Table 2).

Full details of funds allocated to projects can be found in Part III and are summarised in Table 2.

Table 2: Allocation of Proceeds – 31 August, 2024

(A$m)

Identifier/ISIN	Principal	Allocation of Projects						
		MUCCP Stages 2, 4, 5 & 7 [1]	Endoscopy Clinic at MQH	MQH Clinic at Trafalgar Place	Law Building	Engineering & Astronomy	MUCCP Stage 6a.2 - 18 Wally's Walk	Total Allocation
AU3CB0256279	200.0	200.0	-	-	-	-	-	200.0
AU3CB0256295	50.0	50.0	-	-	-	-	-	50.0
AU3CB0268399	160.0	-	12.0	1.0	3.0	117.0	27.0	160.0
AU3CB0268472	90.0	10.0	-	-	70.0	10.0	-	90.0
Total	**500.0**	**260.0**	**12.0**	**1.0**	**73.0**	**127.0**	**27.0**	**500.0**

[1] Includes 1 Central Courtyard, Residential Student Accommodation R1 & R2, Lincoln Building Refurbishment and Mars Creek Rehabilitation Works.

A. Green Buildings

$252M of the sustainability bonds have been allocated to the Macquarie University Central Courtyard Precinct ("MUCCP") – Stages 2 & 5a (1 Central Courtyard), 4 (Lincoln Building), 5b (Residential Student Accommodation R1 & R2) for the construction of Green Buildings, assessed by the Green Building Council of Australia [2] (GBCA).

Stages 2 and 5a (1 Central Courtyard), Stage 5b (Residential Student Accommodation R1 & R2) and Stage 4 (Lincoln Building) have all been awarded a 5 Star Green Star Rating (Design and As Built) by the Green Building Council of Australia.

$73M of the sustainability bonds have been allocated to the Michael Kirby Law Building ("Law Building") and $127M allocated to the new School of Engineering and Australian Astronomical Optics Building ("Engineering and Astronomy Building") for the construction of Green Buildings, to be assessed by the Green Building Council of Australia [3] (GBCA).

$27M of the sustainability bonds have also been allocated to the interior fitout and refurbishment of 18 Wally's Walk, across multiple levels of Macquarie University's original library building. This has been completed and has been awarded a 5 Star Green Star Rating (Interiors) by the Green Building Council of Australia [4]).

MUCCP Stages 2 & 5a (1 Central Courtyard):
New Development consisting of formal and informal learning and teaching spaces, graduation hall and food and beverage retail spaces, totaling approximately 15,400m².

Eligibility Criteria: Green Building ☑ Granted

MUCCP Stage 4 (Lincoln Building):

Major Refurbishment of 3 levels of workplace accommodation and provision of 6 new retail spaces, totaling approximately 2,570m².

Eligibility Criteria: Green Buildings ☑ Granted

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[2] Green Building Council of Australia, Design & As Built v1.2.
[3] Green Building Council of Australia, Design & As Built v1.3.
[4] Green Building Council of Australia, Interiors v1.3.

MUCCP Stage 5b (Residential Student Accommodation R1 & R2):

New Development consisting of Residential Student Accommodation spread across two buildings (with common podium) and a 342-bed capacity, totaling approximately 11,950m².

Eligibility Criteria: Green Buildings ☑ Granted

Michael Kirby Law Building:

Major re-build of four levels including shared lecture theatres & tutorial rooms, academic and HDR workplaces, Moot Court, Law Commons and law student breakout spaces totalling 9,887m^2.

Eligibility Criteria: Green Buildings ▲ Awaiting certification

Engineering and Astronomy Building:

A combination of new build and refurbishment of existing building for the School of Engineering and Australian Astronomical Optics including formal and informal learning and teaching laboratories and related spaces, academic and HDR workplaces, workshops and industry workplaces totalling 15,955m^2

Eligibility Criteria: Green Buildings ▲ Under construction

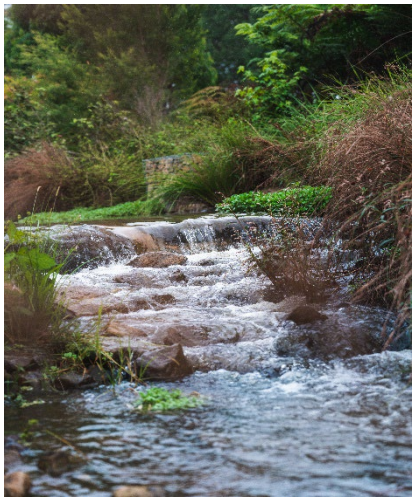
MUCCP Stage 6a.2 - 18 Wally's Walk:

Internal fit out of the original library to convert it to professional workspaces housing up to 600 people including meeting rooms, social spaces and breakout zones.

Eligibility Criteria: Green Buildings ☑ Granted

B. Sustainable water and wastewater management

$8M of the sustainability bonds have been allocated to the Macquarie University Central Courtyard Precinct ("MUCCP") – Stage 7 (Mars Creek Rehabilitation Works), to improve the restoration of natural landscapes and wetlands, such as the Mars Creek.



This project has reduced the impact of storm flows for

the MQ community and improved flood mitigation both on campus and to the downstream flows of Lane Cove River.

It also brought about significant enhancements of native plants along the project's creek edge.

Eligibility Criteria: Environmentally Sustainable Management of Living Natural Resources & Land Use

C. Access to Essential Services

$13M of the sustainability bonds have been allocated across the fitout and refurbishment of the Endoscopy Clinic ($12M) and MQ Health Clinic ($1M) at Trafalgar Place to facilitate:

Endoscopy Clinic at Macquarie University Hospital: Fitout and refurbishment within the Macquarie University Hospital to expand the capacity and capability of Endoscopy Services to the community.

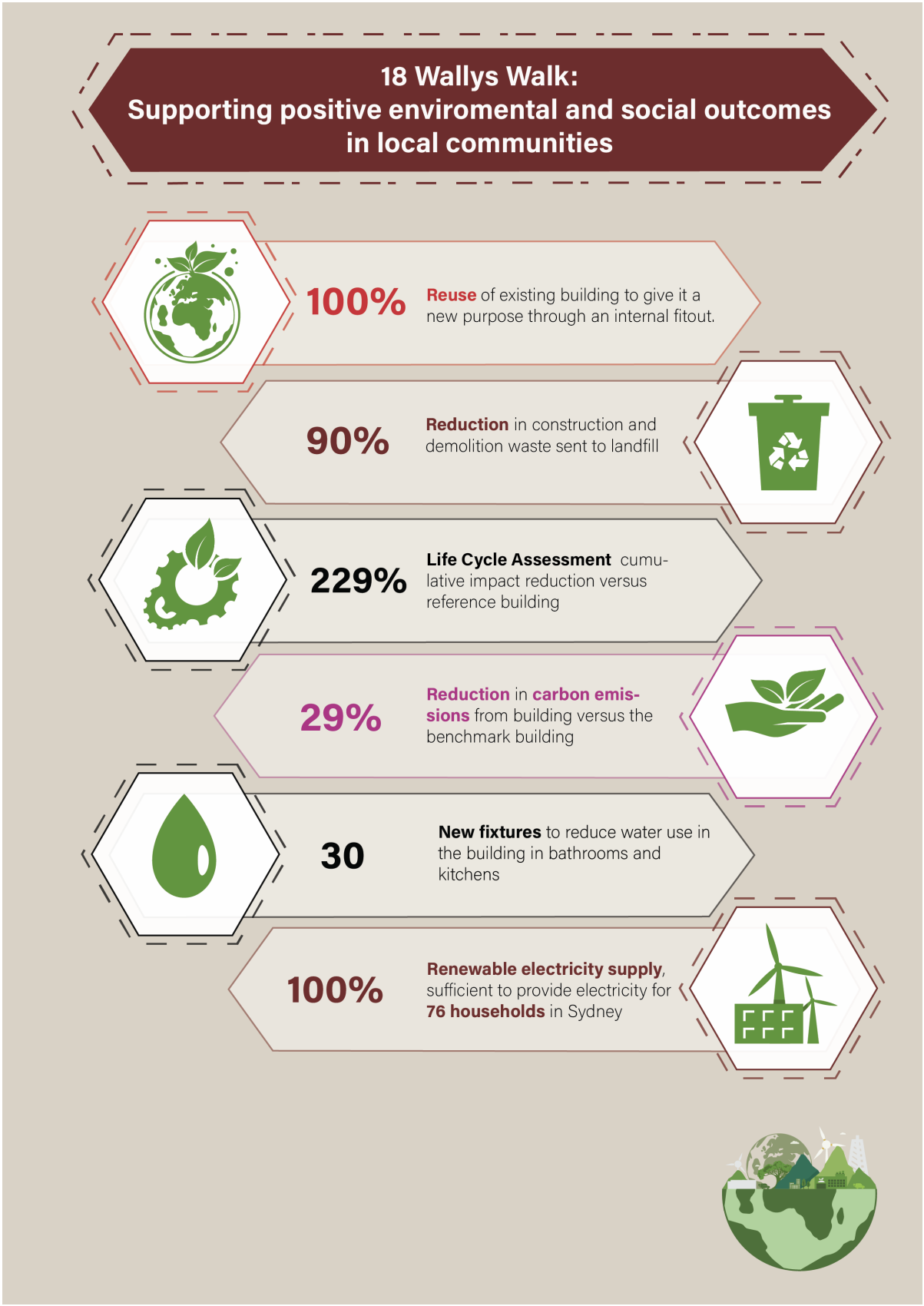
Over 5000 diagnostic and therapeutic specialist procedures annually (incremental uplift of c. 50%).

Eligibility Criteria: Social – Access to Essential Services

MQ Health Clinic at Trafalgar Place: Fitout and refurbishment of tenancy to accommodate MQ Health Clinic to expand the capacity and outreach of General Practitioner health services to the community.

Up to 20,000 patient visitations annually.

Eligibility Criteria: Social – Access to Essential Service



Above statistics sourced from:

- Submission to GBCA for Interiors submission and reports

Part II
Sustainalytics Report

Part II: Sustainalytics Report 2024

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Macquarie University

Type of Engagement: Annual Review
Date: 5 November 2024
Engagement Team:
Akshay Chandrakapure, akshay.chandrakapure@morningstar.com
Anjansingh Bist, anjansingh.bist@morningstar.com

Introduction

Between 2018 and 2019, Macquarie University (MQU) issued four sustainability bonds (collectively the "Sustainability Bonds") and raised AUD 500 million to finance green projects, such as the construction and refurbishment of green buildings and restoration and rehabilitation of natural landscapes on MQU's campus. It also financed social projects, such as the capacity expansion of endoscopy clinic and health clinic at MQU to improve access to health care services. In 2024, MQU engaged Sustainalytics to review the projects it financed with proceeds from the Sustainability Bonds (the "Nominated Expenditures") and assess whether they meet the use of proceeds criteria and whether MQU complied with the reporting commitments in the Macquarie University Sustainability Financing Framework (the "Framework").[1] Sustainalytics provided a Second-Party Opinion on the Framework in August 2018.[2] This is Sustainalytics' fifth annual review of allocation and reporting of the instruments issued under the Framework, following previous reviews in November 2019, October 2020, October 2021, October 2022 and October 2023.[3,4,5,6,7]

Evaluation Criteria

Sustainalytics evaluated the Nominated Expenditures and MQU's reporting based on whether they:

1. Meet the use of proceeds and eligibility criteria defined in the Framework; and
2. Reported on at least one key performance indicator (KPI) for each use of proceeds category defined in the Framework.

Table 1: Use of Proceeds Categories, Eligibility Criteria and Associated KPIs

Use of Proceeds Category	Eligibility Criteria	Key Performance Indicators
Green Buildings	I. New construction and/or renovation of existing buildings that follow strong Ecologically Sustainable Design Principles[8] II. New construction and/or renovation of existing buildings that have or will receive any one of the following	i. Green or equivalent certifications obtained ii. ESD principles scorecard iii. Materials sourced sustainably (including certified products, recycled content) (%)

[1] MQU, "Macquarie University's Sustainability Financing Framework", (2018), at: https://www.mq.edu.au/__data/assets/pdf_file/0007/1288267/Sustainability_Financing_Framework_MQU.pdf
[2] Sustainalytics, "Second-Party Opinion, Macquarie University Sustainability Financing Framework", (2018), at: https://mstar-sustops-cdn-mainwebsite-s3.s3.amazonaws.com/docs/default-source/spos/macquarie-university-sustainability-bond-spo-08092018-final.pdf
[3] Sustainalytics, "MQU Annual Review", (2019), included in MQU's Sustainability Financing Framework Annual Report, (2019) at: https://www.mq.edu.au/__data/assets/pdf_file/0011/1288262/2019_Sustainability_Financing_Framework_Annual_Report.pdf
[4] Sustainalytics, "MQU Annual Review", (2020), included in MQU's Sustainability Financing Framework Annual Report, (2020) at: https://www.mq.edu.au/__data/assets/pdf_file/0003/1288263/2020_Sustainability_Financing_Framework_Annual_Report.pdf
[5] Sustainalytics, "MQU Annual Review", (2021), included in MQU's Sustainability Financing Framework Annual Report, (2021) at: https://www.mq.edu.au/__data/assets/pdf_file/0004/1288264/2021_Sustainability_Financing_Framework_Annual_Report.pdf
[6] Sustainalytics, "MQU Annual Review", (2022), included in MQU's Sustainability Financing Framework Annual Report, (2022) at: https://www.mq.edu.au/__data/assets/pdf_file/0003/1288272/2022_Sustainability_Financing_Framework_Annual_Report.pdf
[7] Sustainalytics, "MQU Annual Review", (2023), included in MQU's Sustainability Financing Framework Annual Report, (2023) at: https://www.mq.edu.au/__data/assets/pdf_file/0011/1288271/2023_Sustainability_Financing_Framework_Annual_Report.pdf
[8] The ESD Principles Scorecard ensures design initiatives have been included to provide performance equivalent to that of a 5 Star rated project under the nominated Green Star tool. This performance is to be achieved in the construction of the building in order to provide equivalence to an As Built rating.

	certifications/ratings or demonstrate equivalent performance: i. National Australian Built Environment Rating System (NABERS) – minimum 4.5 Star or above; or ii. Green Building Council of Australia (GBCA) Green Star – minimum 5 Star or above; or iii. For renovations or upgrades of existing buildings, deliver a minimum 30% reduction in carbon emissions intensity; iv. Any other good green design label that can be demonstrated to be equal or better than the above. III. Procurement of sustainably sourced materials, including certified products (such as FSC timber), or products containing recycled content (such as concrete, glass)	
Environmentally Sustainable Management of Living Natural Resources and Land Use	i. Preservation or restoration of natural landscapes, including biodiversity conservation and wetland projects, such as the Mars Creek and Bushcare programmes ii. Facility and infrastructure new builds or upgrades that contribute to research programmes that contribute to the conservation of oceans, seas and marine reserves and/or the protection, restoration and sustainable use of ecosystems, reduction and reversal of land degradation and biodiversity. such as the Biological Science Research Facility	i. Amount of land covered by open space (in ha and %) ii. Amount of land covered by trees, plants, shrubs, etc. (in ha and %) iii. Number of trees planted iv. Avoidance or reduction of biodiversity loss (number of species) v. Quality enhancement of soil and/or land and/or water through management practices associated with land use specific projects vi. For new builds and upgrades: number of research programmes contributing to the protection, restoration or sustainable use of ecosystems or forests, halting or reversing land degradation and biodiversity loss vii. For new builds and upgrades: number of research programmes contributing to conservation and sustainable use of oceans, seas and marine resources
Access to essential services	i. New buildings and upgrades to facilities providing clinical care ii. Expenditure to support access to facilities and services that are disability and gender sensitive and provide safe, non-	i. Number of people reached with new and/or improved healthcare facilities ii. Proportion of campus covered by reliable Wi-Fi network and/or

2

	violent, inclusive and effective learning environments for all	technological upgrades to improve learning outcomes
	iii. Enhance capacity for scientific research, including upgrading technological capabilities, to ensure universal access across campus and encourage innovation and research and development	iii. Number of new and/or upgraded facilities that are disability and gender sensitive and provide safe, non-violent, inclusive and effective learning environments for all

Issuer's Responsibility

MQU is responsible for providing accurate information and documentation relating to the details of the projects, including descriptions, amounts allocated and impact.

Independence and Quality Control

Sustainalytics, a leading provider of ESG research and ratings, conducted the verification of the use of proceeds from MQU's Sustainability Bonds. Work undertaken as part of this engagement included the collection of documentation from MQU and review of said documentation to assess conformance with the Framework.

Sustainalytics relied on the information and the facts presented by MQU. Sustainalytics is not responsible, nor shall it be held liable for any inaccuracies in the opinions, findings or conclusions herein due to incorrect or incomplete data provided by MQU.

Sustainalytics made all efforts to ensure the highest quality and rigour during its assessment process and enlisted its Sustainability Bonds Review Committee to provide oversight of the review.

Conclusion

Based on the limited assurance procedures conducted,[9] nothing has come to Sustainalytics' attention that causes us to believe that, in all material respects, the Nominated Expenditures do not conform with the use of proceeds criteria and reporting commitments in the Framework. MQU has disclosed to Sustainalytics that the proceeds from the Sustainability Bonds were fully allocated as of August 2024.

[9] Sustainalytics' limited assurance process includes reviewing documentation relating to details of projects, as provided by the issuing entity, which is responsible for providing accurate information. These may include descriptions of projects, estimated and realized costs, and reported impact. Sustainalytics has not conducted on-site visits to projects.

Detailed Findings

Table 2: Detailed Findings

Framework Requirements	Procedure Performed	Factual Findings	Error or Exceptions Identified
Use of Proceeds Criteria	Verification of projects to determine alignment with the use of proceeds criteria outlined in the Framework.	The Nominated Expenditures comply with the use of proceeds criteria.	None
Reporting Criteria	Verification of projects or assets to determine if impact was reported in line with the KPIs outlined in the Framework.	MQU reported on at least one KPI per use of proceeds category.	None

Appendices

Appendix 1: Allocating Reporting

Table 3: Allocation of Proceeds from the Sustainability Bonds

Use of Proceeds Category	Projects	Project Status	Amount Allocated (AUD million)
Green Buildings	MUCCP Stages 2, 4, 5	Operational	252.3
	Michael Kirby Law Building	Operational	73
	School of Engineering and Australian Astronomical Optics	Under Construction[10]	127
	MUCCP Stage 6a.2 - 18 Wally's Walk	Operational	27
Environmentally Sustainable Management of Living Natural Resources and Land Use	MUCCP Stage 7	Operational	7.7
Access to Essential Services	Endoscopy Clinic at Macquarie University Hospital	Operational	12
	MQ Health Clinic at Trafalgar Place	Operational	1
Total Amount Allocated			**500**
Total Proceeds Unallocated			**0**
Total Net Proceeds Raised			**500**

[10] MQU has communicated to Sustainalytics that the project will be completed by 2025.

Appendix 2: Reported Impact

Table 4: Reported impact from the Sustainability Bonds

Use of Proceeds Category	Project Name	Project Description	Solar Generated (kWh)	CO_2 Tonnes Equivalent Reduced Per Annum	Impact Indicators
Green Buildings	Macquarie University Central Courtyard Precinct (MUCCP) Stage 4 - Lincoln Building	Refurbishment of office space and provision of six new retail spaces	30,971	144	5 Star Green Star
	MUCCP Stages 2 & 5a -1 Central Courtyard	New learning and teaching building, retail spaces and graduation hall	656,317	777	5 Star Green Star
	MUCCP Stage 5b - Student Accommodation Buildings R1 & R2	342-bed student accommodation across two buildings with common podium	250,346	279	5 Star Green Star
	Michael Kirby Law Building	Expansion of 17 Wally's Walk to accommodate the needs of MQ Law School	121,800	734	5 Star Green Star
	School of Engineering and Australian Astronomical Optics Building	New construction and refurbishment of the existing buildings of a multi-disciplinary building for Engineering and Astronomy	Not Available	Not Available	5 Star Green Star
	MUCCP Stage 6a.2 - 18 Wally's Walk	Refurbishment of multiple levels of Macquarie University's original library building	Not Available	209	5 Star Green Star
Environmentally Sustainable Management of Living Natural Resources and Land Use	MUCCP Stage 7 – Mars Creek Rehabilitation work	Rehabilitation of Mars Creek Reach 3 focuses on ameliorating the habitat "truncations" from previous hard engineering works originating in the 1960s. It includes "daylighting," or opening up a section of creek that was piped in a subterranean stormwater system for more than 50 years.			The project has created a new natural surface channel in the original creek bed, reinstating a riparian zone about 20 metres wide. Additional habitat features include a rebuilt culvert inlet that provides native freshwater eels a migration route from their habitat in the university's lake to the rehabilitated upper Mars Creek. MQU has confirmed to Sustainalytics that the rehabilitation achieved the

					following: i) a 71% increase in tree canopy and native plants on the creek landscape between 2018 and 2024, ii) a 90% reduction in gross pollutants in Mars Creek outflow compared to 2018 levels, and iii) an 80% reduction in total suspended solids in Mars Creek outflow compared to 2018 levels.
Access to Essential Services	Endoscopy Clinic at Macquarie University Hospital	Fit-out and refurbishment within Macquarie University Hospital to expand and enhance the capacity and capability of Endoscopy			Refurbishment of the endoscopy clinic increased patient capacity by 50% and provided equipment for over 5,000 diagnostic and therapeutic specialist procedures. 6,993 patients were admitted in the refurbished endoscopy clinic between September 2023 and August 2024
	MQ Health Clinic at Trafalgar Place	Fit-out and refurbishment of tenancy to accommodate the MQ Health Clinic's capacity expansion and extend the outreach of General Practitioner health services to the community			Increase in patient capacity, which allows up to approximately 20,000 patient visits annually

Disclaimer

About Morningstar Sustainalytics

Morningstar Sustainalytics is a leading ESG research, ratings and data firm that supports investors around the world with the development and implementation of responsible investment strategies. For more than 30 years, the firm has been at the forefront of developing high-quality, innovative solutions to meet the evolving needs of global investors. Today, Sustainalytics works with hundreds of the world's leading asset managers and pension funds, which incorporate ESG and corporate governance information and assessments into their investment processes. Sustainalytics also works with hundreds of companies and their financial intermediaries to help them consider sustainability in policies, practices and capital projects. For more information, visit www.sustainalytics.com.

Part III
Allocation of Funds and Use of Proceeds

Parts III: Allocation of funds and use of proceeds

CONTENTS

The Framework was developed in August 2018 to demonstrate how Macquarie University intends to enter into Sustainability Financing Transactions ("SFTs") with proceeds earmarked to finance, or refinance, projects and expenditures that will deliver positive environmental and social outcomes and which support Macquarie University's strategy and vision.

In accordance with Section 2.4 of the Framework, the following Annual Report relates to the reporting period of 1st September 2023 – 31st August 2024.

3.1 SUMMARY OF SUSTAINABILITY FINANCING TRANSACTIONS (SFTs)

The following table is a summary of the SFTs:

Table 3: Sustainability Financing Transactions (A$'M) – 31 August, 2024

Transaction	Identifier/ISIN	Coupon	Term	Maturity	Principal Amount (A$'m)	Allocation (A$'m)	Spent to 31st Aug 2024 (A$'m)	Further to Spend (A$'m)
2018 MTN	AU3CB0256279	3.50%	10yr	Sep 2028	200.0	200.0	200.0	-
2018 MTN	AU3CB0256295	4.50%	25yr	Sep 2043	50.0	50.0	50.0	-
2019 MTN	AU3CB0268399	2.25%	10.5yr	May 2030	160.0	160.0	83.8	76.3
2019 MTN	AU3CB0268472	3.10%	25yr	Nov 2044	90.0	90.0	90.0	-
	Total				**500.0**	**500.0**	**423.7**	**76.3**

3.2 ALLOCATION REPORTING

In accordance with Section 2.2 of the Framework, the University's Finance and Facilities Committee (a committee of Council), approved the full allocation of the $500m in proceeds from the Bonds raised under the Framework.

Table 4: Allocation of Proceeds (A$'M) – 31 August, 2024

(A$m)

Identifier/ISIN	Principal	Allocation of Projects						
		MUCCP Stages 2, 4, 5 & 7 [5]	Endoscopy Clinic at MQH	MQH Clinic at Trafalgar Place	Law Building	Engineering & Astronomy	MUCCP Stage 6a.2 - 18 Wally's Walk	Total Allocation
AU3CB0256279	200.0	200.0	-	-	-	-	-	200.0
AU3CB0256295	50.0	50.0	-	-	-	-	-	50.0
AU3CB0268399	160.0	-	12.0	1.0	3.0	117.0	27.0	160.0
AU3CB0268472	90.0	10.0	-	-	70.0	10.0	-	90.0
Total	**500.0**	**260.0**	**12.0**	**1.0**	**73.0**	**127.0**	**27.0**	**500.0**

[5] Includes 1 Central Courtyard, Residential Student Accommodation R1 & R2, Lincoln Building Refurbishment and Mars Creek Rehabilitation Works.

3.3 USE OF PROCEEDS

The following table is a summary of the Funding and Expenditure:

Table 5: Funding and Expenditure (A$'M) – 31 August, 2024

(A$m)

Identifier/ISIN	Allocation	Projects Currently Funded						
		MUCCP Stages 2, 4, 5 & 7 [6]	Endoscopy Clinic at MQH	MQH Clinic at Trafalgar Place	Law Building	Engineering & Astronomy	MUCCP Stage 6a.2 - 18 Wally's Walk	Total Spent
AU3CB0256279	200.0	200.0	-	-	-	-	-	200.0
AU3CB0256295	50.0	50.0	-	-	-	-	-	50.0
AU3CB0268399	160.0	-	12.0	1.0	3.0	40.7	27.0	83.7
AU3CB0268472	90.0	10.0	-	-	70.0	10.0	-	90.0
Total	**500.0**	**260.0**	**12.0**	**1.0**	**73.0**	**50.7**	**27.0**	**423.7**

[6] Includes 1 Central Courtyard, Residential Student Accommodation R1/R2, Lincoln Building Refurbishment and Mars Creek Rehabilitation Works.

3.4 PROJECT OVERVIEWS: PROJECTS CURRENTLY FUNDED

3.4.1 Macquarie University Central Courtyard Precinct ("MUCCP")

Project Part:	**MUCCP Stage 4 – Lincoln Building**
Project Description:	Major Refurbishment of 3 levels of workplace accommodation and provision of 6 new retail spaces, totaling approximately 2,570m².
Eligibility Category:	Green Buildings
Impact Measure	5 Star Green Star (GBCA) - Design and As Built v1.2 (Awarded)
Project Status:	Operational
SDG Alignment:	

Project Part:	**MUCCP Stages 2 & 5a – 1 Central Courtyard**
Project Description:	New Development consisting of formal and informal learning and teaching spaces, graduation hall and food and beverage retail spaces, totaling approximately 15,400m². Includes Stage 2 – Central Courtyard Upgrade, as it supports and is ancillary to the adjacent buildings in Stage 5
Eligibility Category:	Green Buildings
Impact Measure	5 Star Green Star (GBCA) - Design and As Built v1.2 (Awarded)
Project Status:	Operational
SDG Alignment:	

Project Part:	**MUCCP Stage 5b –Student Accommodation Buildings R1 & R2**
Project Description:	New Development consisting of Residential Student Accommodation spread across two buildings (with common podium) with a 342-bed capacity, totaling approximately 11,950m².
Eligibility Category:	Green Buildings
Impact Measure	5 Star Green Star (GBCA) - Design and As Built v1.2 (Awarded)
Project Status:	Operational
SDG Alignment:	

Project Part:	**MUCCP Stage 7 – Mars Creek Rehabilitation Works**
	The rehabilitation of Mars Creek Reach 3, focuses on ameliorating the habitat 'truncations' from previous hard engineering works originating in the 1960s. This includes 'daylighting' or opening up a section of creek that was piped in a subterranean stormwater system for more than 50 years.
Project Description:	The project has created a new naturalised surface channel through a section of the original creek bed which reinstates a riparian corridor of approximately 20 metres in width. Additional habitat features include a re-made culvert inlet that offers native freshwater eels a new migration route from their existing habitat in the university's lake, to the rehabilitated upper reaches of Mars Creek.
Eligibility Category:	Environmentally Sustainable Management of Living Natural Resources and Land Use.
Impact Measure:	Preservation or restoration of natural landscapes including biodiversity conservation and wetland.
Project Status:	Operational
SDG Alignment:	

3.4.2 Endoscopy Clinic at Macquarie University Hospital

Project Description:	Fitout and refurbishment within the Macquarie University Hospital to expand and enhance the capacity and capability of Endoscopy Services to the co
Eligibility Category:	Social – Access to essential services – new buildings and upgrades to facilitate prov clinical care.
Impact Measure:	Increase in patient capacity to over 5000 diagnostic and therapeutic specialis procedures annually
Project Status:	Operational
SDG Alignment:	

3.4.3 MQ Health Clinic at Trafalgar Place

Project Description:	Fitout and refurbishment of tenancy to accommodate MQ Health Clinic to expand the capacity and outreach of General Practitioner health services to the community.
Eligibility Category:	Social – Access to essential services – new buildings and upgrades to facilitate providing clinical care.
Impact Measure:	Increase in patient capacity to allow up to approx. 20,000 patient visitations annually.
Project Status:	Operational
SDG Alignment:	

3.4.4 Michael Kirby Law Building

Project Description:	An adaptive re-use and expansion of 17 Wally's Walk to provide a purpose-designed facility creating a flexible environment to accommodate the emerging needs of the MQ Law School.
Eligibility Category:	Green Buildings
Impact Measure:	5 Star Green Star (GBCA) - Design and As Built v1.3 (Awaiting certification)
Project Status:	Operational
SDG Alignment:	

3.4.5 School of Engineering and Australian Astronomical Optics Building

Project Description:	A dedicated major new multi-disciplinary building for Engineering and Astronomy, and to enable collaboration with other parties.
Eligibility Category:	Green Buildings
Impact Measure:	5 Star Green Star (GBCA) – Green Star Buildings v1 (Planned)
Project Status:	Under construction expected completion in 2025
SDG Alignment:	

3.4.6 MUCCP Stage 6a.2 - 18 Wally's Walk

Project Description:	Interior Fit out and refurbishment across multiple levels of Macquarie University's original library building.
Eligibility Category:	Green Buildings: 5 Star Green Star (GBCA) Interiors v1.3
Impact Measure:	5 Star Green Star (GBCA) - Interiors v1.3 (Awarded)
Project Status:	Operational
SDG Alignment:	

Part IV
Impact Reporting

PART IV: Impact Reporting

CONTENTS

4.1 MUCCP PROJECT OVERVIEW & PROJECT IMPACT

PURPOSE

In accordance with Section 2.4(c) of the Framework, this impact report relates to MUCCP as nominated in accordance with Section 2.2 of the Framework as an Eligible Project.

Project: Macquarie University Central Courtyard Project (MUCCP), comprising:

- Stage 2 Central Courtyard Redevelopment;
- Stage 4 C8A Lincoln Building;
- Stage 5a 1 Central Courtyard;
- Stage 5b Residential Student Accommodation Buildings R1 & R2;
- Stage 7 Mars Creek Rehabilitation Works.

Image 1: The Central Courtyard Precinct

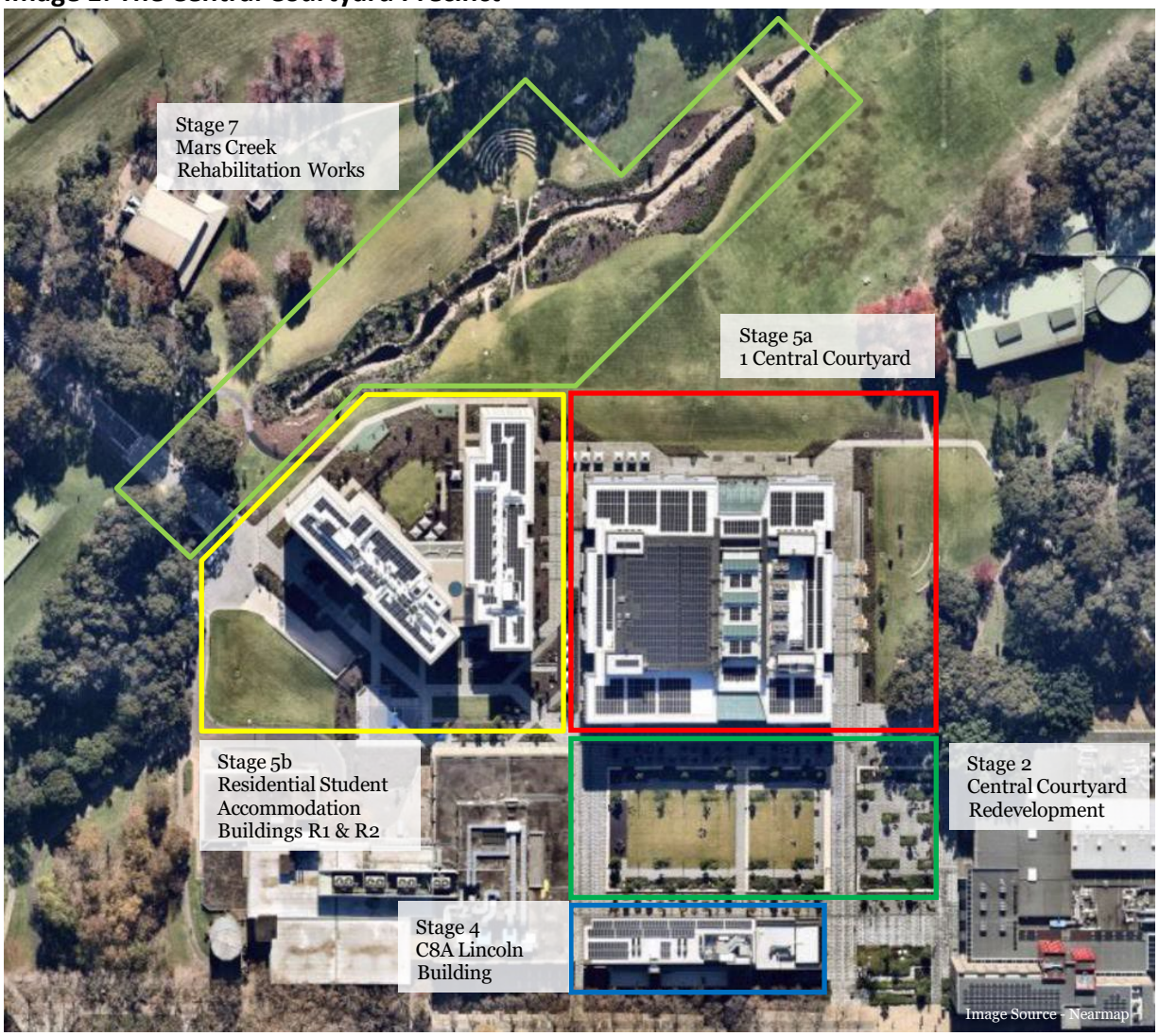


Image 2: MUCCP Central Courtyard Precinct

Project Overview

This rejuvenation and renewal of the Central Courtyard and the buildings that surround it, is a critical part of the reinforcement of the Central Courtyard Precinct as the "heart of the campus".

The guiding vision for the design for the Central Courtyard Precinct was to create a vibrant dynamic precinct that:

- Creates a focus for the entire University community – students, staff and visitors;
- Manifests the vision for and aspirations of the University;
- Creates a memorable and meaningful place;
- Respects and celebrates the architectural, cultural and landscape heritage of the project;
- Engages and enhances the campus through sustainability, functionality and design;
- Accommodates a wide variety of functions and activities, both permanent and temporary;
- Is sustainable, functional, flexible and capable of evolving over time.

This was delivered as a program of 'Project Parts', which serves a variety of functions, delivering new social and educational infrastructure at the very heart of the campus, incorporating approximately 68,000m² of gross floor area (GFA) across both new and refurbished buildings and associated public realm.

The nominated Project Parts (as listed above), being funded under the Framework, have been delivered under a single Construction Contract to FDC Constructions (NSW) Pty Ltd.

The 2024 Impact Report sees no material departure from the previous Impact Reports.

4.1.1 MUCCP Impact Measure – Green Buildings

Impact Measure # 1

Eligible Category:	2.1.1 Green: Green Buildings
Eligibility Projects:	New construction and/or renovation of existing buildings that have or will receive any one of the following certifications/ratings or demonstrate equivalent performance as listed below. − Green Building Council of Australia (GBCA) Green Star (minimum 5 Star or above).
Impact Indicators:	Green or equivalent certifications obtained.
Project Alignment:	Given the diversity of functional building types included in the Project, three separate applications have been made to the GBCA as noted in the table on the following page.

Table 6: Applications to the Green Building Council of Australia

Project	Stage 4 – Lincoln Building	Stage 5a 1 Central Courtyard	Stage 5b Residential Student Accommodation Buildings R1 & R2
Project Description	Refurbishment of office space and provision of 6 new retail spaces.	New learning and teaching building, retail spaces and graduation hall.	342 bed student accommodation across two buildings with common podium.
Rating Tool	Green Star – Design and As Built v1.2		
Project Size (GFA)	2,570m²	15,400m²	11,950m²
Desired rating	5.0 Star Green Star		
Rating Type	Major Refurbishment	New Construction	New Construction
Space Use	Class 5/6	Class 5/6/9b	Class 3/7a/9b
GBCA Project Registration Number	GS-4589DA	GS-4588DA	GS-4587DA
Approval date	2nd August 2021	22nd July 2022	25th July 2022

*****Stage 2 of the Central Courtyard Redevelopment, which comprises the landscape treatment of the public realm, is captured within Green Star assessment of the adjacent buildings.

4.1.2 MUCCP Impact Measure – Environmentally Sustainable Management of Living Natural Resources and Land Use

Image 3: Mars Creek Time Lapse Images

Impact Measure # 2

Eligible Category: 2.1.1 Green: Environmentally Sustainable Management of Living Natural Resources and Land Use.

Eligibility Projects: Preservation or restoration of natural landscapes including biodiversity conservation and wetland projects such as the Mars Creek and Bushcare programs.

- Impact Indicators – the amount of land covered by open space (ha and %);
- Amount of land covered by trees, plants, shrubs etc. (ha and %);
- Number of trees planted;
- Avoidance or reduction of biodiversity loss (# of species);
- Quality enhancement of soil and/or land and/or water through management practices associated with land use specific projects.

Discharge of run-off

Upstream (off campus) flows are contained within urban drains collecting runoff from the local district (roads, roofs, parkland etc). Once on campus, these below-ground systems are discharged into two creeks, which discharge downstream into the Lane Cove River (via the Lane Cove National Park) which is an upper tributary of Sydney Harbour.

Since 2010, Macquarie University has progressively rehabilitated the creeks and associated riparian zones toward a state capable of supporting aquatic habitats, and in doing so, installed intervention devices that include some form of detention, retention (e.g. water reuse or infiltration system), water quality infrastructure and biodiversity zones to protect the in-stream environment.

The above interventions, together with large areas of the catchment that allow storm water runoff to be intercepted by our landscape, create significant amelioration of 'Urban Stream Syndrome' impacts of extreme/erosive storm flows and suppressed dry-weather flows.

To date, the progressive reinstatement of the creek lines and rehabilitation of associated vegetated riparian zones, across 50 per cent of the University's creek landscape, has added 60,000 [7]native plants along 800 metres of creek edge.

The benefits to this combined water catchment and Creek Rehabilitation Strategy are:

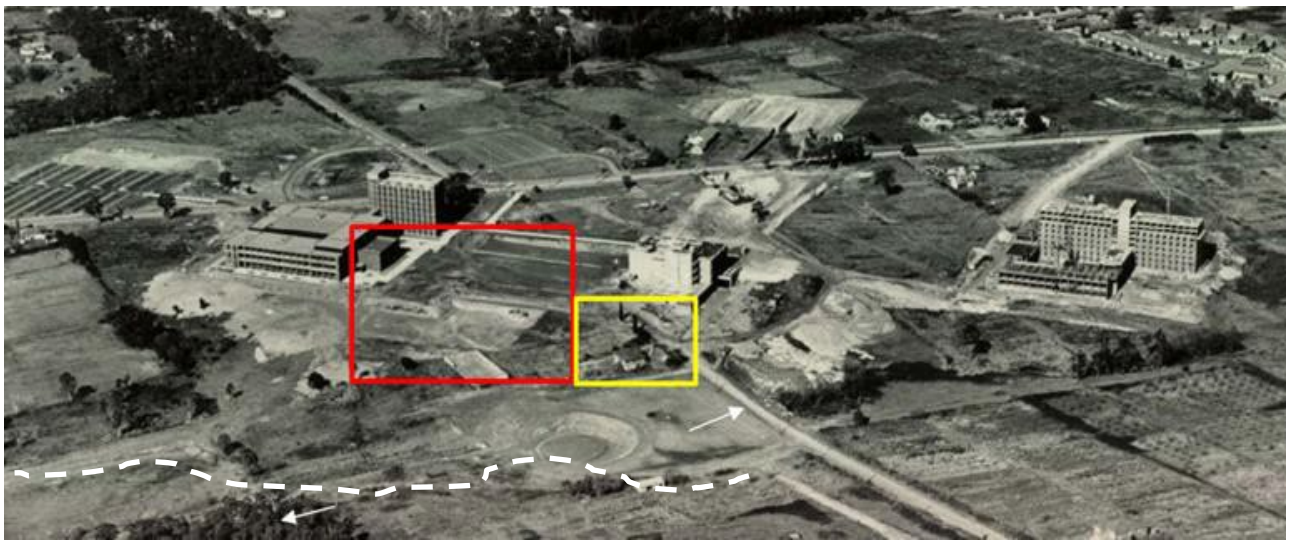
- Improved amenity for the Macquarie University community;
- Flood mitigation, both on campus, and to the downstream flows in the Lane Cove River (Sydney Harbour);
- Water purification and pollution control.

[7] Derived from the planting list from the projects

MUCCP – Stage 7 Mars Creek Reach 3 Rehabilitation Works

Images 4 - 5 Demonstrates the prior impacts to the campus's main watercourse through the mid 20th Century, then the re-establishment across the period 2000-present of a native riparian corridor along Mars Creek which runs south to north through the university.

Image 4: The University under construction in 1967, looking south east towards the Central Courtyard Precinct (Stage 5a is indicated in red, 5b in yellow)



*****The dotted lines indicate the former path of Mars creek directly before it was piped underground.

By the end of the 20th Century, the main habitat values of the Mars Creek valley were confined to the water bird habitats of the constructed campus lake, and natural bushland extending from near the northern lake shore up onto adjoining ridge lines. Elsewhere in this catchment, minimal native habitat had been sustained or replenished in the early decades of the university.

Image 5, next page depicts the active re-establishment of a vegetated riparian corridor, initially downstream of the campus lake through the early 2000s, subsequently in the upper half of the corridor in the 2009 to 2013 period, and most recently the re-created creek and vegetation corridor for MUCCP Stage 7. It is this last project which begins the process of habitat reconnection between the previously isolated lake-shore zone and upstream sections.

Bird, reptile and amphibian colonisation of the new habitats has been observed at these early stages of recovery, while tree dwelling marsupials are present in the sections of more advanced tree growth. In the last year both eels and Eastern long necked turtles have been spotted several times using the waterway.

In the adjacent new and refurbished building precinct (Stages 4, 5a), a new drainage network surrounding the reinstated courtyard directs all received storm water into a 180,000 litre tank within the new building's basement.

Retention of water within the catchment is achieved through reticulating the treated storm water for use in the building's cooling towers, and also a watering system for all local garden beds. Cleaning of the stored water is achieved by a cartridge filtration system of self-flushing cylinders of a phosphorous locking gravel media. To date, these systems have prevented release to Mars Creek of at least 4 cubic metres of silt and other suspended sediment (based on clean-out reporting by maintenance service).

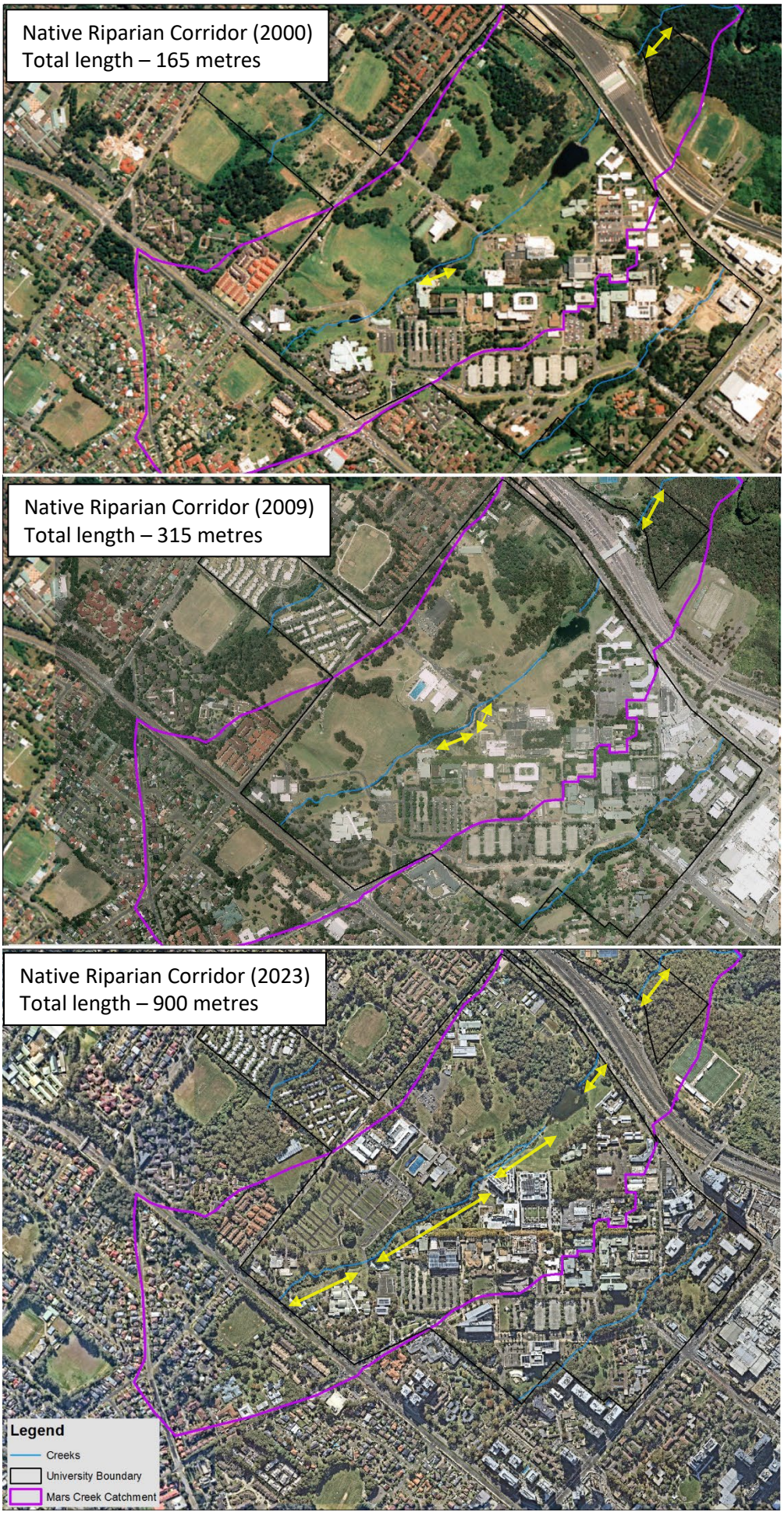


Image 5: Riparian Zone Extent across the period 2000-2023

Image 6: **An aerial photo indicating the re-constructed Mars Creek Reach 3 in 2022**

The Rehabilitation of Mars Creek Reach 3

The rehabilitation of Mars Creek Reach 3, focuses on ameliorating the habitat 'truncations' from previous hard engineering works originating in the 1960s. This includes ‘daylighting’ or opening up a section of creek that was piped in a subterranean stormwater system for more than 50 years.

The project has created a new naturalised surface channel through a section of the original creek bed which reinstates a riparian corridor of approximately 20 metres in width. Additional habitat features include a re-made culvert inlet that offers native freshwater eels a new migration route from their existing habitat in the university's lake, to the rehabilitated upper reaches of Mars Creek.

Key Landscape Design Principles

The proposed Mars Creek works within the Reach 3 zone described above adhere to the general design principles listed below:

- The implementation of environmentally sustainable design principles;
- Storm water management including water sensitive urban design initiatives (WSUD) such as bio swales;
- New tree planting to offset existing tree removal in the vicinity of the proposed works;
- High quality, low maintenance materials and planting;
- Ensure that the public domain has been designed with regard to crime prevention through environmental design (CPTED) principles;
- Provide bed and bank stability and reducing bank and channel erosion;
- Provide an interface or buffer between developments and waterways
- Provide passive recreational use

4.2 ENDOSCOPY CLINIC AT MQ HOSPITAL

PURPOSE

In accordance with Section 2.4(c) of the Macquarie University Sustainability Financing Framework (the 'Framework, this Impact Report relates to the Project as nominated in accordance with Section 2.2 of the Framework as an Eligible Project.

PROJECT OVERVIEW

Fit out and refurbishment within the Macquarie University Hospital to expand and enhance the capacity and capability of Endoscopy Services to the community.

The redevelopment of the endoscopy unit addresses critical issue of non-compliant scope flow (decontamination) within existing unit, and non-compliant recovery to procedure room ratio. Failure to address would result in Macquarie University Hospital losing accreditation to perform endoscopic procedures.

The project has relocated the existing endoscopy service to an alternate ground floor location, providing

- Increased capacity with the addition of a third procedure room to meet the demand for growing therapeutic and diagnostic endoscopic services,
- Relocation of main reception and complementary modernisation of hospital foyer,
- Dedicated patient admissions office,
- Dedicated outpatient entrance and private waiting area, offering an improved patient experience,
- Dedicated inpatient entrance for transport of inpatients by bed, trolley, or wheelchair.

The project involved the decant of over 100 support staff from existing ground floor area to office space.

The project is complete and operational since Dec-21.



IMPACT MEASURE

Eligible Category: 2.1.2 Social – Access to essential services

Eligibility Projects: New buildings and upgrades to facilitate providing clinical care.

Impact Indicators: Increase in patient capacity.

Services Provided: The Endoscopy unit at Macquarie University Hospital provides over 5,000 diagnostic and therapeutic specialist procedures annually.

MQ Health are committed to the adoption of improved models of care in accordance with contemporary evidence-based best practice. The Endoscopy unit provides procedures in line with advances in technology with a focus on patient-centred care.

Macquarie University Hospital's Endoscopy unit has been operating since the hospital opened in 2010 and activity has grown exponentially. The medical team comprises 24 specialists, providing an essential diagnostic and support service to patients of MQ Health.

This unit provides specific Endoscopy services in a day surgery environment, including:

- Gastroscopy
- Colonoscopy
- ERCP (endoscopic retrograde cholangio-pancreatography)
- Oesophagyeal and anal manometry
- Endoscopic ultrasound
- Biopsy
- Urodynamics

These procedures can aid in the diagnosis, management and treatment of:

- Gastroesophageal reflux disease
- Cholelithiasis (gall stones)
- Stomach and colon cancer
- Conditions of the digestive system
- Polyp removal biopsy
- Minor anorectal surgical procedures

The Endoscopy unit allows MQ Health to increase service capacity to the local community and further develop an environment that facilitates the training of the next generation of health professionals.

4.3 MQ HEALTH CLINIC AT TRAFALGAR PLACE

PURPOSE

In accordance with Section 2.4(c) of the Macquarie University Sustainability Financing Framework (the 'Framework, this Impact Report relates to the Project as nominated in accordance with Section 2.2 of the Framework as an Eligible Project.

PROJECT OVERVIEW

Fit out and refurbishment of tenancy to accommodate MQ Health Clinic to expand the capacity and outreach of General Practitioner health services to the community:

- Fit out of vacant tenancy to facilitate new GP clinic (205sqm).
- Minor cosmetic upgrade of existing 75sqm GP clinic.
- Compliance upgrade to centre to toilets to meet new clinic requirements and BCA compliance. Provision of accessible toilet.

Primary care business development and expansion is part of MQ Health's strategy, with the goal of increasing community presence and referrals to specialist and ancillary services and the Hospital.

With a long standing tenant vacating the Macquarie University premises at 1 Trafalgar Place, Marsfield, a time-critical opportunity was taken to develop a new MQ Health general practice site specifically to support a chronic and complex care model.

This opportunity provided increased attraction and retention for our GP workforce, new and unique learning opportunities for students and doctors in training, increased capacity to serve the community and generate referrals and the ability to trial and evaluate new and innovative models of care in service of our patients.

The project is complete and operational since Nov-20.

IMPACT MEASURE

Eligible Category: 2.1.2 Social – Access to essential services

Eligibility Projects: New buildings and upgrades to facilitate providing clinical care.

Impact Indicators: Increase in patient capacity.

Services Provided: The MQ Health Clinic at Trafalgar Place provides for up to 5 full-time General Practitioners to provide medical services to the local community. This will allow for up to approximately 20,000 patient visitations annually.

This clinic provides general practice medical and nursing services, including:

- Children's health
- Women's health
- Men's health
- Vaccinations (including COVID-19)
- Mental health
- Sexual health
- Preventive health
- Chronic disease management

A room is leased to Douglass Hanly Moir to provide pathology services to the community.

The clinic also provides an outreach service to Willandra Residential Village, and to nearby aged care facilities.

The clinic employs academic GPs who support other programs at MQ Health, Macquarie University and beyond:

- Macquarie MD Program
- Macquarie University Student Wellbeing
- MQ Health Doctors in Training Program
- Australian Institute of Health Innovation's Learning Health Systems Project
- GP Synergy's Registrar Training Program
- Sydney North Health Network's Person Centred Medical Home Program

4.4 MICHAEL KIRBY LAW BUILDING

PURPOSE

In accordance with Section 2.4(c) of the Macquarie University Sustainability Financing Framework (the 'Framework, this Impact Report relates to the Project as nominated in accordance with Section 2.2 of the Framework as an Eligible Project).

PROJECT OVERVIEW

Macquarie Law School is in a phase of strategic development that involves significant change to adapt to a dynamic environment for all its stakeholders. Australia, its society and communities, as well as its own region and the world more broadly face deep strategic and generational challenges. For the Macquarie Law School to serve the common good into the future, it needs to provide solutions to these challenges. Macquarie Law School is to become more than a law school, that is, it aims to lead, to inspire, to partner, and to collaborate.

The Law School has identified priorities in its academic mission that give life to this aspiration. These include thematic approaches to social inclusion, technology and its role in an open society, environmental sustainability, corporate citizenship and the intersection of health, law, and society.

Over the past 10 years Macquarie Law School has grown significantly in its teaching enterprise. This was primarily demonstrated in strong growth in domestic undergraduate student load and associated revenue. This has enabled the Law School to aim to become a significant financial contributor to the University.

The previous physical environment for Law School staff and students severely limited the School's capacity to achieve its strategic goals, as well as presenting compliance and Work Health and Safety challenges for the University.

The Law School building redevelopment project has created a Law School Hub, which aims to bring industry and the professions to Macquarie University. The Law School Hub also aims to develop collocated partnerships. The first of these is a partnership with DLA-Piper to provide low-cost family law services, the following link explains the initiative Wallumatta Legal

Impact Measure

Eligible Category: 2.1.1 Green: Green Buildings

Eligibility Projects: New construction and/or renovation of existing buildings that have or will receive any one of the following certifications/ratings or demonstrate equivalent performance as listed below.

- Green Building Council of Australia (GBCA) Green Star (minimum 5 Star or above).

Impact Indicators: Green or equivalent certifications obtained.

Project Alignment:

Project	**Michael Kirby Law Building**
Project Description	New Construction
Rating Tool	Green Star – Design and As Built v1.3
Project Size (GFA)	9,887m²
Desired rating	5.0 Star Green Star
Rating Type	Major Refurbishment
Space Use	Class 5/9b
GBCA Project Registration Number	GS-6929DA
Approval date	TBD

4.5 SCHOOL OF ENGINEERING AND AUSTRALIAN ASTRONOMICAL OPTICS

PURPOSE

In accordance with Section 2.4(c) of the Macquarie University Sustainability Financing Framework (the 'Framework, this Impact Report relates to the Project as nominated in accordance with Section 2.2 of the Framework as an Eligible Project).

PROJECT OVERVIEW

STRATEGIC CASE (2022-2026)

The Faculty of Science and Engineering's ("FSE") Vision and Strategic Plan for the next five-years are to improve:

- student experience, employability, and outcomes
- HDR pathways and outcomes
- industry engagement resulting in authentic collaboration opportunities
- spaces, infrastructure, and facilities to attract and retain students and outstanding staff

The relocation of the School of Engineering and AAO into facilities fit for purpose is central to the success of FSE in meeting these strategic goals.

Co-location in appropriate facilities is especially important for STEM-based disciplines and will bring with it enhanced collaboration and positive outcomes. Strong research, teaching and commercial connections exist across the School of Engineering and AAO, and FSE more broadly, such as shared teaching between Engineering, Computing and MaPS (i.e., Mathematics, Computing and Physics are core disciplines within an Engineering education). FSE brings these disciplines together while respecting distinctiveness in activities (i.e., AAO MQ is a semi-commercial enterprise) and fields (i.e., engineering being distinct from sciences) through its renewed academic organisational structure and investment in culture as outlined in FSE's Strategic Plan 2022-2026.

The School of Engineering and AAO MQ are currently spread across seven buildings off and on the main Wallumattagal campus. This significantly hampers the ability of FSE to attract and retain students and outstanding staff in Engineering and Astronomy as locations, and spaces including infrastructure and facilities are inconvenient and don't allow for staff and students to effectively discover, learn, create and work together. Exposing Engineering students to AAO-MQ project management and technical expertise, including showcasing the build process for bespoke systems that will be used in telescopes around the globe and in Space, will be integral to their learning experience. Co-location will also provide increased opportunities for PACE students, summer scholarships/internships and work-integrated learning. The current arrangements also do not allow for efficient use of space and facilities which could be gained through consolidation of laboratories and other spaces. These factors reduce cohesion and promote silos within sub-disciplines.

To enable collaboration across disciplines with strong research, teaching and industry connections the project allows for:

- Co-location in the FSE precinct close to core disciplines to Engineering teaching (i.e., Mathematics, Physics and Computing)
- Relocation of AAO MQ research and commercially focused staff into shared facilities to enhance innovation and collaboration

The building redevelopment will be an industry hub for FSE, bringing industry collaborators to the University. To develop these partnerships, appropriate accommodation is required to support external engagement including spaces for meetings, collaborative activities, and events.

Summary of project key benefits:

Benefit 1: Enhanced collaboration of Engineering and AAO MQ, along with other FSE Schools and MQ Faculties, leading to improved education, research, and commercial outcomes.

Benefit 2: Improved efficiency of laboratories, workshops and other serviced spaces as facilities are consolidated.

Benefit 3: Reduced costs for the University from relinquishing the two leases for the School of Engineering and AAO MQ

Benefit 4: Improved student experience, enabling FSE to attract and retain outstanding students and staff in Engineering and Astronomy resulting in increased retention, survey scores and rankings.

Benefit 5: Enabling AAO to deliver on national and international contracts and grow future businesses.

Benefit 6: A visible flagship building in the FSE precinct connecting MQ with industry.

Impact Measure

Eligible Category: 2.1.1 Green: Green Buildings

Eligibility Projects: New construction and/or renovation of existing buildings that have or will receive any one of the following certifications/ratings or demonstrate equivalent performance as listed below.
- Green Building Council of Australia (GBCA) Green Star (minimum 5 Star or above).

Impact Indicators: Green or equivalent certifications obtained.

Project Alignment:

Project	**School of Engineering and Australian Astronomical Optics**
Project Description	New Construction
Rating Tool	Green Star –Buildings v1

Project Size (GFA)	15,955m²
Desired rating	5.0 Star Green Star
Rating Type	Major Refurbishment
Space Use	Class 5/9b
GBCA Project Registration Number	GS-8812B
Approval date	TBD

4.6 MUCCP STAGE 6A.2 – 18 WALLY'S WALK

PURPOSE

In accordance with Section 2.4(c) of the Macquarie University Sustainability Financing Framework (the 'Framework, this Impact Report relates to the Project as nominated in accordance with Section 2.2 of the Framework as an Eligible Project).

PROJECT OVERVIEW

18 Wally's Walk was the original University Library that has been largely underutilised since the Library relocated in 2013, being mainly used for experimental informal learning spaces, storage and some project offices. As part of the MUCCP Master Plan – Stage 6, the original intent was to fully redevelop the site, whilst retaining the original structure. Given other priority capital expenditures, a decision was made to look at an alternative strategy for the building to achieve better medium-term utilisation while also maintaining flexibility for the future.

A decision was made to create a centre for professional student and staff administration services, bringing together the Offices of Group Finance, Risk, Procurement, Human Resources, IT, Student Administration, Shared Services Centre, Marketing and Communications, in a modern sustainable working environment. The internal fitout was designed to meet 5 Star Green Star Certification. It also included the upgrade of the outward facing Student Services Centre, located on the ground floor of the building. An aligned project, though not part of this funding, was an upgrade to the external façade of the building.

The fitout is complete and the building has been operational since Jun-22.

Impact Measure

Eligible Category: 2.1.1 Green: Green Buildings

Eligibility Projects: New construction and/or renovation of existing buildings that have or will receive any one of the following certifications/ratings or demonstrate equivalent performance as listed below.

- Green Building Council of Australia (GBCA) Green Star (minimum 5 Star or above).

Impact Indicators: Green or equivalent certifications obtained.

Project Alignment:

Project	**MUCCP Stage 6a.2 – 18 Wally's Walk**
Project Description	Refurbishment and fit out
Rating Tool	Green Star – Interiors v1.3
Project Size (GFA)	8,000m²
Desired rating	5.0 Star Green Star
Rating Type	Major Refurbishment
Space Use	Class 5
GBCA Project Registration Number	GS-6956I
Approval date	17/01/2024

Appendix - Summary of Impact on Completed Green Star Projects

Table 7 : Summary for Green Star by Project Report

Green Buildings project	Gross Floor Area (GFA)	Final and/or Primary Energy use [1]		Carbon reductions [1]			Solar generated kWh [1]	Solar Installed kW	Certification
		kWh/m2 of GFA p.a. [3]	% of energy use reduced [2]	kgCO2/m2 of GFA pa.	CO2 T equiv. reduced pa.	% of carbon emissions reduced[2]			
1CC	15,400	155.82	34%	75.45	777	40%	656,317	300	Design & As Built v 1.2
R1/R2	11,950	68.94	32%	28.35	279	45%	250,346	200	
Lincoln	2,570	91.91	47%	59.90	144	48%	30,971	40	
Total	**29,920**	**115.63**	**35%**	**55.30**	**1,200**	**42%**	**937,634**	**540**	

Notes for above table:
1. above figures use calculations from Green Star energy modelling
2. percentage reductions are from reference buildings used in Green Star inclusive of behind the meter solar
3. Energy use includes natural gas and electricity.
4. Above table exclude the renewable electricity contract supplying the campus (if you included the PPA the precinct would have a combined carbon reduction of 88%)

Macquarie University Property
2 Link Road
Macquarie University
NSW, 2109
Australia

Photo credits: Chris Barlow and Joanne Stephan

MACQUARIE University
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