



17 April 2025

Department of Planning, Housing and Infrastructure
Locked Bag 5022
PARRAMATTA NSW 2124

To Whom It May Concern,

At Catholic Schools of Broken Bay, we are dedicated to achieving a sustainable, net zero future. We understand the importance of transparency and accountability in addressing climate change, which is why we provide the following information regarding our emissions, transition plans, and sustainable infrastructure initiatives:

Estimated Scope 1 and 2 Emissions up to 2050:

Estimated energy consumption and GHG emissions data is not yet available for the proposed Eileen O'Connor Catholic School. In the next stage of design, detailed predictive energy modelling will be undertaken to inform the design and estimate the quantity of emissions (both direct and indirect) to be offset through the use of solar photovoltaic systems. Following this assessment, clear targets and strategies will be established to reduce these emissions in alignment with our commitment to achieving net-zero greenhouse gas emissions.

Confirmation of Adequate Infrastructure for Fossil-Fuel Independence by 2035:

The project is designed to operate without fossil fuels from the moment it's occupied, demonstrating our commitment to sustainability and minimising environmental impact. It is anticipated that any fossil fuels used for emergency power will account for less than 1% of the total building energy consumption and be offset for the first ten years of operation.

Onsite Renewables and Sustainable Infrastructure:

We recognise the importance of onsite renewables, passive design, and other sustainable infrastructure in improving energy performance and reducing emissions. As part of our sustainability efforts, we have implemented the following initiatives:

- **Onsite Renewable Energy:** We have invested in onsite renewable energy systems, such as solar panels to generate clean, renewable electricity to power our operations. This system contributes to reduce utility grid supplied electricity consumption and decreasing our carbon footprint.

- **Passive Design:** Our building is designed with passive design principles and material selection to ensure thermal comfort is achieved without relying solely on mechanical means. Passive design strategies such as performance glazing, shading and use of insulation will reduce demand on the mechanical air conditioning systems leading to lower energy consumption and greenhouse gas emissions. Implementing effective shading design will ensure consistent access to daylighting throughout the building, consequently helping to minimise the use of artificial lighting.
- **Infrastructure Improvements:** We have implemented infrastructure improvements, such as energy-efficient equipment and lighting systems, to enhance energy performance and reduce overall energy consumption. Ductwork and pipework systems will be designed to reduce system pressure losses to reduce fan and pump motor power. This includes the selection of equipment for reduced coil and vessel pressure drops and being generous with ductwork and pipework sizes to reduce friction losses.

These improvements contribute to our efforts to achieve net zero emissions and create a more sustainable built environment.

Conclusion:

At Catholic Schools of Broken Bay, we are committed to transparency, accountability, and action in our journey towards achieving net zero emissions. By addressing our scope 1 and 2 emissions, transitioning away from fossil fuels, and investing in onsite renewables and sustainable infrastructure, we are working towards a more sustainable future for generations to come.

Kind Regards,



Josie Vescio

Workstream Lead
Facilities & Procurement

This document is endorsed by Serkan Hasan, Senior Sustainability Consultant at Northrop Consulting Engineers.

Serkan is a chartered mechanical engineer (EA ID: 3488806), chartered Building Services Engineer and Green Star Accredited Professional (GSAP) with over 9 years of experience across a wide range of projects.

Signature of endorsing engineer:

A handwritten signature in black ink, appearing to be 'SH', written in a cursive style.

Serkan Hasan

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