

The \$658 million Sydney Children's Hospital Stage 1 and Minderoo Children's Comprehensive Cancer Centre will transform kids' health. A range of sustainability initiatives will deliver lasting outcomes that matter to children and young people, staff and the community.



Health Infrastructure's projects provide significant opportunities to contribute to the sustainability of the state's healthcare system, and the Sydney Children's Hospital Stage 1 and Minderoo Children's Comprehensive Cancer Centre (SCH1/MCCCC) building is one of many NSW healthcare facilities adopting sustainable practices into its design and operations.

The Sydney Children's Hospitals Network is committed to reducing its environmental impact and has set a target to achieve net zero by 2035 for emissions directly controlled, and by 2050 for those that cannot be directly controlled.

The SCH1/MCCCC is one of several hospitals under construction that boast Environmentally Sustainable Design (ESD) features, with a range of ESD initiatives embedded into the building's design.

Environmental sustainability

The design of the new hospital and research centre building has incorporated best practice sustainability features and efficient construction methods to deliver a building that will support improved sustainability outcomes.

The redevelopment will deliver a range of environmental sustainability initiatives, including:



100% electrification

Supporting renewable, carbon-free energy to achieve carbon neutrality.



Green spaces

External green spaces across multiple levels, contributing to improved air quality, temperature regulation, biodiversity and connection to nature.



Waste management

Comprehensive waste management facilities, including a food composting unit on site.



Transport options

Electric vehicle charging infrastructure to support carbon emission reduction.



Photovoltaics

Rooftop solar panels for onsite renewal energy and improved grid resilience.



Social sustainability

Initiatives that lead to a more stable healthcare system contribute to social sustainability. Our vision is to create a welcoming and safe children's hospital and research facility that will meet the needs of staff, patients, families and the community, now and into the future.

The project will deliver:

- improved access to paediatric healthcare
- welcoming and culturally appropriate indoor and outdoor spaces
- enhanced patient rooms and parent/carer facilities
- more healthy food options and 24/7 food choices
- arts, play and discovery elements to support healing and development
- dedicated external play spaces that cater for all levels of mobility for patients and visitors
- enhanced workforce opportunities and improved staff facilities
- flexible and adaptable spaces with a focus on technology
- Virtual Care Centre to support telehealth and virtual healthcare.

Economic sustainability

A commitment to economic sustainability during planning and construction supports long term financial stability – from consideration of building costs and future running costs, through to promoting prosperity through employment, training and professional development.

The project will:

- invest in high quality materials to reduce ongoing maintenance costs
- exceed thermal performance national construction code requirements to reduce heating and cooling impacts of the building
- deliver significant lighting and electricity efficiencies

- boast increased water efficiency through the use of water efficient fixtures and the installation of water meters
- support almost 1,200 direct jobs during construction and help create 500 roles within paediatrics across the Randwick Health & Innovation Precinct
- boost the proportion of women in construction and leave a skills and social legacy
- co-locate acute health services and cancer research for efficient service delivery and transformative collaboration.

Building and construction initiatives

Planning, designing and building a hospital is a complex process.

In June 2022, principal contractor John Holland was appointed to deliver main works for the project. John Holland has committed to targeting a carbon zero outcome during the construction phase as just one step toward the project's vision to deliver a healthier and more sustainable future for our children.

Responsible procurement initiatives are being implemented to reduce the project's carbon footprint, including at least 30 per cent cement content replacement and minimum 50 per cent reclaimed water and manufactured sand use in all concrete poured on site.

The use of bio fuels, electric cranes and at least 15 per cent green power on site further help to reduce carbon emissions.

Additionally, more than 90 per cent of construction waste is being diverted from landfill, and an on-site recycling program is seeing suitable materials remanufactured to help close the loop on waste management.



All images are artist impressions of the building and indicative only.