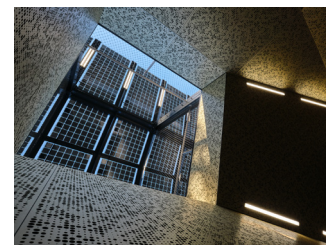
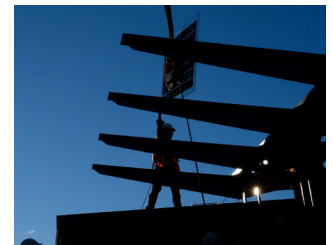
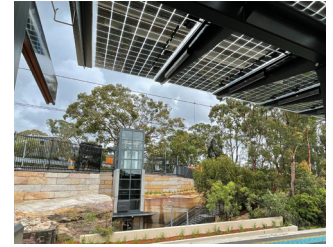


Photovoltaic Glass Canopy | Como Station Upgrade

The Como Station upgrade, part of TfNSW's Transport Accessibility Program, introduced solar glass canopies for natural light and renewable energy. This innovation improved safety, reduced carbon footprint, and supported Net Zero goals, earning Degnan the 2021 Banksia Clean Energy Award and a "Leading" rating.



TYPE OF PROJECT

Rail

CLIENT

Transport for NSW

PROJECT COMPLETION

October 2021

PROJECT VALUE

\$18.5M

DELIVERY MODEL

Design & Construct

The Como Station upgrade, part of the TfNSW Transport Accessibility Program, involved installing two lifts, an underpass with Indigenous artwork, and regrading the car park with relocated accessible spaces. Additional improvements included lighting, electrical, drainage, and communication systems.

Degnan identified that the underpass was dark and uninviting, relying heavily on artificial light. To address this, a recess was added to the platform, allowing natural light into the underpass. Above the recess, a photovoltaic glass canopy was installed to provide both natural illumination and renewable energy for the station, aligning with TfNSW's Net Zero sustainability goals.

A detailed cost-benefit analysis showed that the photovoltaic system would deliver long-term savings on electricity costs, while improving safety through Crime Prevention Through Environmental Design (CPTED) principles. The system covers the station's base energy load during daylight hours and can accommodate

future battery systems for greater energy resilience. Integrated into the station's electrical network, the solution reduces the carbon footprint of the infrastructure.

This innovative use of solar glass as both a building material and architectural feature is a first for Sydney Trains.

In recognition of this achievement, Degnan won the 2022 Banksia Clean Energy Award (NSW and National) and achieved a "Leading" Sustainability rating from the Infrastructure Sustainability Council (ISC).