



UrbanGrowth NSW
Development Corporation



THE NEW SYDNEY FISH MARKET

AN ECOLOGICALLY SUSTAINABLE DEVELOPMENT

DECEMBER 2018

Our ambition is to create a legacy of sustainable places for future generations.

We have approached the new Sydney Fish Market project with the specific goal of creating not only an authentic, working fish market but also a design that pushes the boundaries of ecological sustainability.

The sustainability features of the new building will work towards achieving a 5 Star Green Star rating from the Green Building Council of Australia.

Our approach to achieving a 5 Star Green Star Rating focuses on five areas:

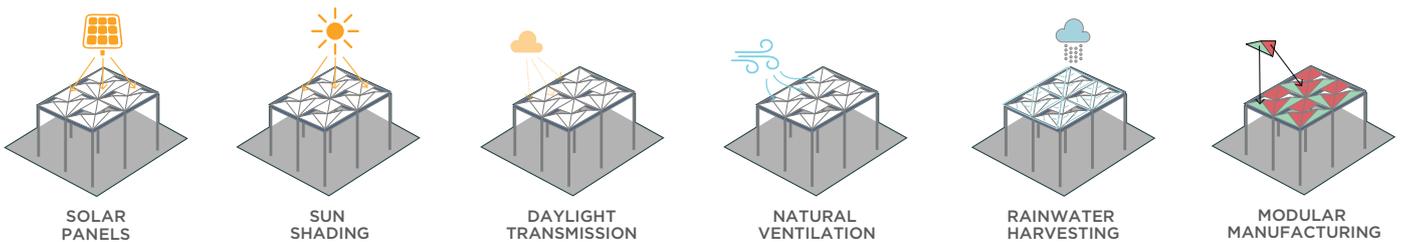


1. ROOF

The roof is the central architectural element of the new fish market. It has been designed as a holistically sustainable feature that will drive both the expression and performance of the new facility.

Features include:

- **Photovoltaic (solar) panels** - integrated into roof modules to produce energy
- **Direct Sun Shading** - lowers energy demand and large awning also protects against direct solar gains
- **Indirect daylight transmission** - reduces requirements for artificial lighting and power
- **Natural ventilation** - reduces the building's reliance on heating, air-conditioning and mechanical ventilation systems
- **Rainwater harvesting** - re-uses collected rainwater within the building
- **Modular manufacturing** - improves efficiencies and reduces construction waste
- **Light coloured finish** - reduces urban heat island effect





4. SERVICES

Given the operational requirements of the new facility as an authentic, functioning fresh seafood market and premier food and beverage destination, the building services and associated plant equipment have been carefully considered.

Features include:

- Shared plant equipment for operational freezer and cooler spaces
- Co-location of spaces for thermal insulation and efficiencies
- Application of smart monitoring systems and energy-efficient plant equipment



5. OPERATIONAL

A number of operational measures will be implemented to reduce the overall waste, water and energy consumption across the building.

Features include:

- **Waste**
 - Target to divert 80% of operational waste from landfill
 - Separation of waste sources
 - Reuse of fish offal for alternate uses such as organic fertilizer
- **Water**
 - Targeting a 45% net reduction of potable water
 - Water efficient fixtures and fittings
 - Using recycled water from the roof
- **Energy**
 - A 30% reduction in greenhouse gas emissions, measured in line with Green Star protocols
 - Integrated photovoltaic cells in roof
 - Passive strategy to reduce energy from heating, ventilation, air conditioning and cooling
 - LED lighting throughout
 - Centralised ice-making and gas domestic hot water systems

For more information, images and video visit:

www.ugdc.nsw.gov.au/sfm

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