



PARRAMATTA EELS SWIMS TO MAXIMISE WATER SAVINGS

Parramatta Stadium reduces their
potable water consumption

CASE STUDY



PARRAMATTA STADIUM

NEW SOUTH WALES

Energy Conservation Systems was engaged to provide a rainwater harvesting solution for the high irrigation demands at Parramatta Stadium. The eastern stand was used to collect rainwater for irrigation at Parramatta Stadium's training ground.

Parramatta Stadium is the home ground for the Parramatta Eels and is used as a multi purpose arena for sporting, entertainment and community events.

To reduce demand on potable water supply, the Parramatta Stadium Trust selected Energy Conservation Systems (ECS) to design and install a commercial rainwater harvesting scheme that harvests rainwater from the roof of the Eastern stand of the stadium – a catchment of 2,450 m².

Using their dedicated water engineering resource, ECS designed an innovative solution to address one of the main project issues, which was to provide no overflow at the location of the rainwater tanks, in order to prevent soil erosion and flooding of the adjacent property.

KEY OUTCOMES

WATER SAVINGS

2,000 KILOLITRES PER ANNUM

OLYMPIC SWIMMING POOLS EQUIVALENT
ONE

KEY SOLUTIONS

- NO OVERFLOW AT THE RAINWATER TANKS
- LOW ENERGY DEMAND
- LOW MAINTENANCE REQUIREMENTS



Lessons & Outcomes



“We worked closely with Parramatta Stadium Trust to understand their concerns and needs. Consequently ECS provided engineering solutions to improve the environment by conserving potable water use and minimising overflow and soil erosion.”

Front Image | Parramatta Stadium
1 | Panoramic view of Parramatta Stadium
2 | Aerial view of Parramatta Stadium
3 | 2 x 150 kL tanks installed near the training field



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Rainwater Harvesting and Reuse

The rainwater harvesting scheme diverts rainwater from a series of down-pipes into 2 x 150 kL tanks and reuses the water for irrigation of the training ground.

This excellent design has resulted in minimisation of erosion and flooding, providing 2000 kL of water for irrigation purposes per year.

Since the installation of the water tanks, water consumption has been reduced by approximately 2000kL, keeping the grass green for the NRL.