

# No. 1 Sportsground Solar PV System



## Quick Facts

System size	10.2 kW
Location	Newcastle West
Total project cost	\$16,300
Date system switched on	4 January 2016
Payback	0.82 years
Internal rate of return	123%
Solar generated electricity	14,800 kWh pa
Grid consumption reduction	25% pa *
Energy and peak capacity savings	\$20,000 pa

\* At the time that the system was completed

## Technology

Solar panel type	Polycrystalline
No. of panels	40
Panel efficiency	≥ 15.21%
Panel wattage	255W

## Key Benefits

- Increase Council-owned electricity generation.
- Reduce the carbon emissions associated with the purchase of grid generated electricity.
- Reduce Council's exposure to electricity prices.
- Assist Council to attain its goal to have 30% of its electricity generated from low-carbon sources by 2020.

## No.1 Sportsground Solar Photovoltaic System

Newcastle City Council continues its commitment to supporting clean energy renewable generation with the installation of a 10.2 kW solar photovoltaic (PV) system at the No.1 Sportsground, Parry Street, Newcastle West.

The system, which brings the total amount of solar PV installed on Council-owned buildings to 350 kW, is estimated to generate 14,800 kWh of energy per year.

This energy will be used to offset grid-generated electricity used by the Sportsground when cricket, AFL and other high-profile sporting events are being held.

The 40-panel system was installed after it was determined that there was the potential to reduce daily grid energy consumption by more than 25 percent and save Council over \$20,000 annually in electricity and peak capacity charges.

The system utilises Enphase micro-inverters and can be monitored remotely to track system performance.

The system was 'switched on' on 4 January 2016.

To find out more contact Energy & Resource Management on 02 4974 2000 or visit:

[www.newcastle.nsw.gov.au/environment](http://www.newcastle.nsw.gov.au/environment)