

SOLAR CASE STUDY: NMRC & NMFC, NORTH MELBOURNE



North Melbourne Recreation Centre and Football Club go solar

The City of Melbourne has teamed up with the North Melbourne Football Club (NMFC) to install one of the largest solar systems in the municipality of Melbourne.

A 100kW solar system has been installed on the City of Melbourne's North Melbourne Recreation Centre (NMRC), along with a 100 kW solar system on the roof of the adjoining North Melbourne Football Club (NMFC).

The total of 200kW's across the complex makes it the municipality's second largest solar system, second only to the 402kW solar system at NextDC.

The system will produce 269 MWh of electricity per year, which is equivalent to the annual energy usage of 70 residential homes in Melbourne.

"The North Melbourne Recreation Centre was a prime location for a large-scale solar system and it provided us with a fantastic opportunity to demonstrate the benefits of commercial solar," said City of Melbourne Councillor Arron Wood.

North Melbourne CEO and Managing Director Carl Dilena said the club was proud to have worked with the City of Melbourne to make their seven-year-old training headquarters more environmentally friendly.

"The solar panels will result in our club sourcing 22 per cent less energy from the grid," Mr Dilena said.

"A big thank you must go to the City of Melbourne for helping make this environmentally friendly project a reality. We are certainly proud of our successful, ongoing relationship with the City of Melbourne."

The recreation centre and football club administration buildings include a high-performance training gym, offices for the football department and administration, a fencing centre, community gym, basketball court, and 'The Huddle' Community learning centre.

Location:

204-206 Arden St, North Melbourne

System size:

200kW (100kW on NMRC & 100kW on NMFC)

Estimated annual production:

269 MWh (134.5 MWh from each system)

Solar panels:

800 x 250 Watt Yingli

Solar inverter:

800 x Enphase M215 microinverters

Funding model:

Majority funded through the Clean Energy Finance Corporation.

Installation date:

April 2016

Installer:

EnviroGroup

CITY OF MELBOURNE ECO-CITY

Investing in the future

The 200kW solar system comprising of 800 x 250 watt Yingli solar panels was installed by EnviroGroup at a cost of more than \$462,000, not including LGC subsidy certificates, and the majority was financed through the Clean Energy Finance Corporation.

It is one of the largest solar systems installed by an AFL club.

Features

The solar system can be remotely monitored via the Enphase Energy microinverter system. This allows the City of Melbourne to monitor individual panel performance, including inverter temperatures and power output. It also helps with maintenance, as an alert is sent to the City of Melbourne if there are any panel failures.

melbourne.vic.gov.au/solar



Workmen installing the 200kW system