

Newcastle Museum Solar PV System



Quick Facts

System size	99.75 kW
Location	Newcastle
Date system switched on	May 2016
Solar generated electricity	146,000 kWh pa
Grid consumption reduction	27% pa *

* At the time that the system was completed

Technology

Solar panel type	Monocrystalline
Number of panels	350
Panel type	LG Neon 285W
Panel efficiency	≥ 17.4%
No of inverters	4
Inverter type	SMA

Key Benefits

- Increase Council-owned electricity generation.
- Reduce 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.

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

www.newcastle.nsw.gov.au/environment

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Since opening in the iconic Honeysuckle Railway Workshops in 2011, Newcastle Museum has blossomed with high visitor numbers, an extensive exhibition program and a dynamic range of community events for a diverse audience. The building itself has received multiple awards for its design, environmental sustainability and new tourism development.

Located at the old Civic Railway Workshops, the Museum is listed on the NSW State Heritage Register as one of the outstanding industrial workshop sites in the State.

Before solar PV could be installed on the roof of the Museum, heritage assessments had to be acquired and the design and installation of the system carefully considered.

The 99.75 kW system was installed by Hunter-based company HCB Solar. It is the largest solar photovoltaic (PV) system installed by Council to date and brings the total amount of solar PV installed on Council-owned buildings to 442 kW.

The system was 'switched on' 31 May 2016. It is estimated to generate 146,000 kWh of energy and reduce grid consumption by 27% per year.