

Solar at Knox



KNOX GRAMMAR SCHOOL

In June 2009 Autonomous Energy installed 4kW of solar electricity at Knox Grammar School, one of Australia's leading boys schools with over 1,300 students at the senior school and over 500 students at Knox Preparatory School. At the senior school a 2kW system was installed on the roof of the Paterson Centre, at the Prep School an equivalent system was installed on the K-2 centre (pictured above). These systems are amongst the first solar photovoltaic (PV) systems installed under the Commonwealth Government's National Solar Schools Program. Each system comprises 15 high efficiency 135W multi-crystalline PV solar modules manufactured by Kyocera. The arrays are mounted on engineered, solar specific mounting equipment and are connected to SMA inverters which connect to the electricity network via digital bi-directional meters. The systems are also connected to the internet via a smart meter system which automatically uploads the systems energy production data to a dedicated website, where it can be accessed by students and the school community.

System Size (Kilowatts)	4kW
Annual Energy Production (Kilo Watt Hours)	6504 kWh
Annual Emissions reductions (tonnes CO ₂ -e)	6.894 tCO ₂
Roof space (m ²)	28.5m ²

"The staff at Autonomous Energy are more than just solar engineers. They understand energy, collaborate other projects, manage all the details of the assignment from funding application, through to design, supply, and installation."

Byron Cullen, Business Manager
Knox Grammar School



Installation at the Senior School – Paterson Centre roof



Framing



Inverter

Installation at the Prep – K-2 Building

