

## Tonga Police Development Programme

- Tongatapu & Nomuka, Kingdom of Tonga

March – September 2016



The Tonga Police Development Programme (TPDP) is a joint aid project between the Australian and New Zealand Police, NZ MFAT and Australia's DFAT. TPDP has included the building of new police stations throughout Tongatapu and Nomuka.

Our role in the project was to supply (a) grid connected solar power systems to four police stations (Mu'a, Vaini, Nukunuku and Central), (b) an off grid solar system for Nomuka and (c) a grid connected solar / battery system for the Police College at Longolongo. The two photos above show the solar array, and the battery / inverter shelter at Longolongo.

The Longolongo system won the 2016 SEANZ prize for Best Solar PV & Battery Grid Connected Implementation. Its 224.6kWp solar array produces solar power that is used to charge the battery and also feed the Tonga Power grid. The 6000Ah 48V battery is programmed to discharge into the grid each night, after sun down.



