



Completion Report FRM-144

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| Project Name: | NORTH0001 – Ngurrara – Solar Power Upgrades |
| Property Address: | Ngurrara Homeland |





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| Service Provider | AEA NT PTY LTD | ABN | 86 009 635 901 |
| Contact Details | Tawhai Carter Deputy CEO E. tawhai@aeagp.com.au | Contractor Accreditation Limited (CAL) Registration Number | K-28-10183-07-24 |
| Project Name | Ngurrara Solar Power Upgrades | Contract No. | NORTH0001 |
| Homeland | Ngurrara | Community ID | 907 |
| Project Type | House & Infrastructure Upgrade | House # | N/A |
| Commencement Date | 08/04/2026 | Completion Date | 16/04/2026 |



1. Project Summary

Solar Power Upgrades, Nurrara Homeland

The Homelands Housing and Infrastructure Program (HHIP), managed through the Department of Territory Families, Housing and Communities (TFHC) is a program funded by the Australian Government of which is focused on improving the living conditions in Homelands to ensure residents have access to safe, secure and quality housing and infrastructure suitable to their needs.

AEA NT have completed the approved scope of works at Nurrara Homeland delivering a quality final product, improving the residents access to the 9 Healthy Living Practices.

2. Scope of Works

2.1 Solar Power Upgrades

- Supply and install 70KWh capacity lithium battery solar power system, with set depth of discharge at 70% of battery capacity which should see over 15-years of service when referencing the data sheet if battery bank is cycled once per day at 28°C
- Transport of 20ft containerised stand-alone power cube equipment to site
- Removal of existing redundant solar systems on dwellings
- Supply of parts to form a functional solar system based on the design supplied for provision of 70KWh capacity (20KWh usable per dwelling, 10KWh per 'old school structure' + autonomy)
- Design sizing is as 70% usable battery capacity
- Marking out and installation/positioning of stand-alone power cube adjacent the existing generator shed
- Installation of electrical components inside new 20ft containerised stand-alone power cube including new battery bank
- Batteries are to be Powerplus 48-volt batteries, totaling 70KWh of Lithium batteries to support the design requirements
- Marking out and installation of solar array frame, concrete footings batched onsite
- Supply & erection of the Clenergy solar array frame and railing (with engineering certificate)
- Installation of all required cables and conduit into trenching for the solar array power to stand-alone power cube position
- Supply and installation premium black anodised Jinko 17.6kw of solar panels to support the design requirements
- Supply and installation under solar panel cable covers to avoid requirement of chain mesh fencing around solar array as per current regulations, cable enclosure is sufficient
- Selectronic SP Pro 7.5kw series 2 inverter
- 72-hour battery backup equipped for remote monitoring (includes WIFI / Internet subscription for remote monitoring and control)
- Allowance for installation and connection of Kubota 16Kva powered generator inside existing generator shed connected to the stand-alone power cube & existing site fuel pod
- Allowance for 30m of sub main cable as positioning of the stand-alone power cube connection to the reticulation connection point in existing generator shed
- 1.5kw Air conditioning for climate control of the stand-alone power cube
- Training for residents on power cube capabilities and operation
- Mobilisation and De-mobilisation
- Excavator to perform all required civil works to complete the stand-alone power cube install, solar cabling

3. Visual Progress

