



Completion Report FRM-144

Project Name:	HHIPC00002 – PIA Cluster
Property Address:	Ileparratye Homeland





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Service Provider	AEA NT PTY LTD	ABN	86 009 635 901
Contact Details	Luke Wilks Operations Manager M. 0476 156 419 E. luke@aeagp.com.au	Contractor Accreditation Limited (CAL) Registration Number	K-28-10183-07-24
Project Name	PIA Cluster	Contract No.	HHIPC00002
Homeland	Ileparratye	Community ID	1005
Project Type	Infrastructure Upgrade	House #	N/A
Commencement Date	01/08/2024	Completion Date	05/09/2024



1. Project Summary

Ileparratye Infrastructure Upgrades – Homeland Power Supply and Water Infrastructure Upgrades

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 Ileparratye Homeland delivering a quality final product which was handed back to the primary residents who now have improved access to the 9 Healthy Living Practices.

The infrastructure works at Ileparratye Homeland commenced on the 1st August 2024 and were completed on the 5th of September representing a five (5) week works program.

The total labour hours expended on this project included 22% participation by Aboriginal staff and/or sub-contractors.



2. Scope of Works

2.1 Power Supply Infrastructure Upgrade

- Upgrade existing 120V 70kWh SPS with new Inverters, Batteries, Ground mount Solar and 20kVA Generator
- Remove old 120V SPS components from existing inverter and battery room. Remove old solar panels from existing ground mount solar array. Fit new 20kW Battery inverter and 5 x 6kW AC Coupled inverters to existing inverter room. Install new 160kWh premium battery bank to existing battery room. Install new switch gear and appropriate cabling for system upgrade. Install 3 new 10kW ground mount solar arrays to connect into new AC coupled inverters. Remove old Kubota generator from generator shed and install new 20kVA Kubota generator. Wire into system with 2 wire auto start for inverter control.
- *The new system will be capable of supplying the homeland with 180kWh of solar power directly supplying the loads and also capable of charging the new 230kWh premium battery bank. This will all be backed up with a 20kVA single phase generator.*

2.2 Water Infrastructure Upgrade

- Supply new 13,000ltr poly water tank and install on existing tank stand. Install footings and fixings for existing tank stand and install new 3m x 3m deck with handrails and access ladder. Re divert existing waterline into tank at new tank location marked on map provided and connect outlet back into existing water line to dwellings.
- Supply and install 12 air valves at current exposed pipe locations, install new valve box with concrete surround and isolation valve at T junction for Petyale Homeland. Install concrete pad 800mm x 800mm around existing valve box at T junction to Petyale Homeland. Valve box and T junction will be protected and marked with hooped rail bollard. Install additional isolation valve and valve box before Jump-up rise on water line and mark with hooped bollard.

3. Visual Confirmation of Works



