

Completion Report

Project Name:	Yulara Pulka HHIP
Property Address	Yulara Pulka Homeland





Table of Contents

Project Summary.....	3
Visual Progress.....	6
Attachments.....	11

Project Summary

24-26 Kidman Street
PO Box 8244
Alice Springs, NT 0871

ABN: 41 353 678 701
ICN: 347

Service provider	Ingkerreke Services Aboriginal Corporation
Contact details	Ms. Jozan Collins T: 08 8950 2200
Australian Business Number (ABN)	41 353 678 701
Contractor Accreditation Limited (CAL) Registration Number	A-18-14798-02-25
Community ID	863
Asset No.	Houses 1
Contract No.	HHIPC00003
Completion date	6/12/24

Ingkerreke Services Aboriginal Corporation (ISAC) conducted major infrastructure upgrades to Yulara Pulka Homeland (863) on behalf of the NT Government and Homeland Residents.

The works have been completed in accordance with the submitted scope of works and saw the final product delivered to the high quality expected by our customer and the community.

The works commenced on the 22nd of April 2024 and were completed on 6th of December 2024 representing a 32 week works program.

In the delivery of this project 20% of the labour hours recorded were completed by Aboriginal staff and/or sub-contractors.

The works were designed based on the 9 Healthy Living Principles and with specific attention to family/individual needs as determined by consultation with Residents, other stake holders and ISACs in-house knowledge gained from ongoing MES and R&M works at the Homelands.

As we are the service provider for Yulara Pulka our goal in conducting these works was maximise the output of this funding in-line with resident's needs. As well as to ensure quality and durability of work.

The new solar system will ensure the ongoing power security and significantly reduce the fuel spend for residents at Yulara Pulka.

Ingkerreke Services Aboriginal Corporation have been engaged to deliver the following housing upgrade works at Yulara Pulka as part of Capital Grant Funding Agreement (HHIPC00003). The completed works are as follows:

Power System Upgrades:

- Supply and Install Himoinsa Yanmar Powered 10kva single phase HYW 13 M5 silenced canopy generator set to replace the existing Able 9kva generator with 100L diesel tank.

- Supply and installation of 1 new standalone solar power system utilizing existing genset enclosure and genset UG cabling. As per the following:
 1. Supply and install a purpose built verandah mount insulated equipment enclosure to main house 1 c/w passive ventilation.
 2. **DC coupled inverter** - Selectronic SPpro **7.5kw/48V** interactive inverter/charger with managed connection to grid-tie inverter.
 3. **AC coupled inverter** - 1 x **8.1kw** Fronius grid tie inverter connected via SPPro control
 4. **Solar** - Install 24 x 475w (**11.4 kwp**) to roof of house 1 (4 modules DC coupled via a Victron mppt solar controller) polycrystalline solar modules, including roof mounted frames, wiring, fusing. Modules may be installed on east, north and west roof faces.
 5. **Battery** - 48V - 24 x 1200ah/C100 rate BAE premium quality German manufactured gel batteries installed into the new equipment enclosure. (Capacity is 57.6kwh @ C100 and **13.9kwh** usable overnight @ 30% depth of discharge/C10)
 6. AC and DC cabling, fusing, switchboards as required.
 7. Metering - total output kwh.
 8. Fit genset float charger and 240V 24hr inverter UG circuit supply or a solar charger
 9. Install auto control cabling or radio link for genset auto start function from RAPS system.
 10. Replace rcds in each house DB, add current limiting circuit breakers to prevent use of heaters.
 11. Install new UG mains to tin house 2 from house 1 (2 x 10mm 2 core +ecc/40HD conduit)
 12. Operation manual, operation and safety signage.

Housing Upgrades:

- Supply and install 300litre Solarhart Hot Water Unit. Install new tempering valve and lagging. Remove and dispose of old unit.

- Electrical and Fire Safety: inspect for compliance and install Smoke Alarms where required.

Tip Works:

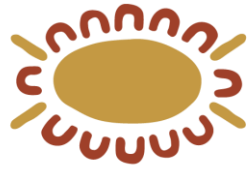
- Dig a tip at Yulara Pulka approximately 20m L x 4m W x 2.5 D at a site identified by TOs close to residence for rubbish disposal, dirt to be piled to one side for filling in once tip is full.

Sanitation Inspection:

- Pump out septic and dispose of effluent. Perform camera inspection of the sewerage systems and compile end to end inspection report.

Septic Remediation Works:

- Works to bring septic up to standard as identified by the sanitation inspection.
- Including: supply and install of a septic tank saddle, riser and lid, and install 40m of leech drains including pump out points



Visual Progress

New Solar Hybrid System:

Old Generator:



Old Generator:

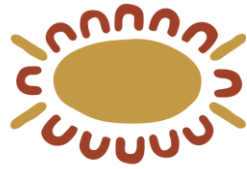


New Generator:



New Generator:





New Solar Enclosure and Handover:



Upgraded Electrical Board:

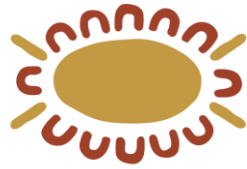


New Solar System:



New Solar System:





New Solar System:



New Solar System:

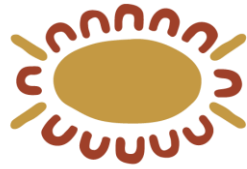


New Solar Panels and 300l Solarhart HWS



New Solar Panels and 300l Solarhart HWS





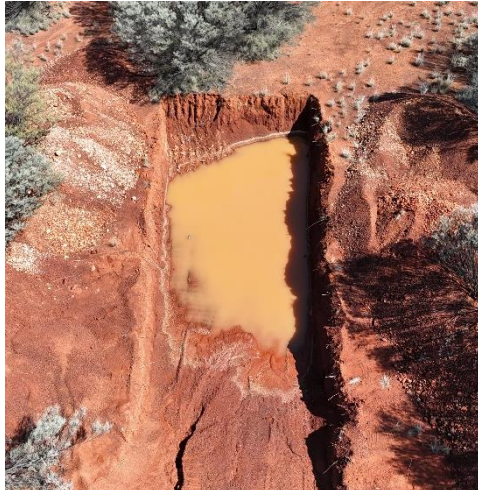
New 300l Solarhart HWS



New 300l Solarhart HWS



New Tip:



New Tip:

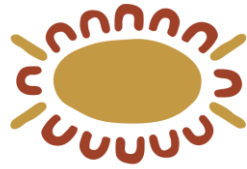


Septic Remediation Works:



Septic Remediation Works:





Septic Remediation Works:



Septic Remediation Works:



Septic Remediation Works:



Septic Remediation Works:

