

# The Solar SETuP program

Due to the vast landscape of the Northern Territory, delivering power to remote Aboriginal communities holds unique challenges and the Power and Water Corporation is 'future proofing' this service with the introduction of solar.

Power and Water has been incorporating solar energy technology for the past twenty years and will build on that experience through its delivery of the Northern Territory Solar Energy Transformation Program (Solar SETuP).

## PROGRAM VALUE

SETuP is a \$55 million program co-funded by the Australian Government through the Australian Renewable Energy Agency (ARENA) and the Northern Territory Government.

## PROGRAM PARTNERS

- Australian Renewable Energy Agency (ARENA)
- Centre for Appropriate Technology (CAT)
- Long Halliwell
- John Holland Territoria Civil
- University of Alaska

## THE SOLAR SETuP PROGRAM

Bringing innovation to some of the most remote Aboriginal communities in the Northern Territory, Solar SETuP will rollout 10 megawatts (MW) of solar, which will generate enough power for about 1750 remote houses.

As the largest isolated off-grid solar rollout in a regulated environment, Solar SETuP is a world-first program. It will transform the way energy is supplied to remote communities with hybrid solar/diesel power generation becoming an integral part of electricity supply.

A list of Solar SETuP communities can be found on our website: [powerwater.com.au/setupfaq](http://powerwater.com.au/setupfaq).



## HOW DOES IT WORK?

In hybrid solar/diesel power stations, the power control system uses both diesel and solar generated power. A 1MW solar system will be built at Nauiyu (Daly River) using energy storage technology to achieve fifty per cent diesel fuel savings.

The program will see the remaining 9MW of solar installed in remote Indigenous

communities. These systems will be simple, low-cost designs utilising established technology to maximise diesel fuel savings of 15 per cent. SETuP communities will be chosen based on technical and cultural suitability.

## WHEN WILL SOLAR SETuP BEGIN?

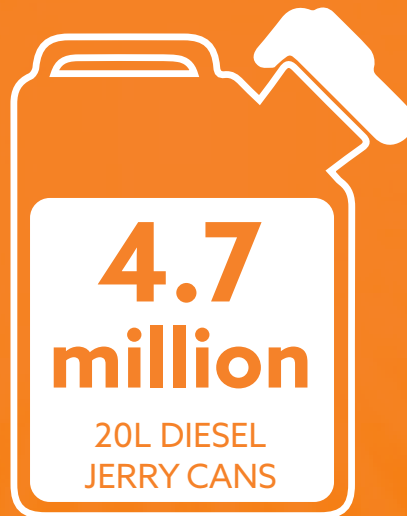
Construction is underway and all sites will be completed and commissioned by 2018.

# PROGRAM OUTCOMES

*Cleaner and quieter electricity generation  
with increased capacity and flexibility  
for future growth*



LOCAL CONTRACTING OPPORTUNITIES AND UP-SKILLING FOR THE ESSENTIAL SERVICES OPERATORS (ESOs)



SAVINGS OF 4.7 MILLION 20L DIESEL CANS WILL BE ACHIEVED OVER THE LIFE OF THE PROGRAM



THAT'S A 94 MILLION LITRE REDUCTION OF DIESEL



AND A 15 PER CENT REDUCTION IN DIESEL RELIANCE