



**WATER TREATMENT PLANT**  
HAPPY VALLEY, SA



## KEY STATS

**12.8 MW p**  
Solar Farm

**375**  
MAVs

**52**  
Days

**13**  
Crew



START  
MOBILISATION  
**DEC 2020**

START  
DEPLOYMENT  
**DEC 2020**

END  
DEPLOYMENT  
**MAR 2021**

PROJECT  
COMPLETE  
**APR 2021**





**7**

MAVs deployed per  
**day - average**  
(238kWp)

**18**

MAVs deployed per  
**day - top**  
(612kWp)

**21**

MAVs deployed per  
**week - average**  
(1.19MWp)

**0**

Injuries

**0**

Major Quality  
Incidents

## WHY MAVERICK?

### Energy Density

The land requirement for such a large project was a major consideration in its development. SA Water had limited space around their water processing facilities so a compact solution was needed. Leveraging an east-west configuration, MAVERICK produces more energy on less land - typically around 1.5 to 2 times the energy of traditional fixed tilt or tracking solar arrays. The Happy Valley project squeezes 12.8MW of solar capacity, or 33,750 panels, on just 12Ha of land - a utilisation factor of ~80%.



### Ground conditions

The soil at the Happy Valley location had been recently labelled 'extremely reactive' after the clearing of a pine plantation weeks earlier. This would have significantly raised the installation cost and risk for a conventional solar array, however MAVERICK's ballasted nature limits ground penetrations and avoids excessive drilling and piling into the bedrock beneath the soil.



### Redeployability

MAVERICK can easily be moved or readjusted for maintenance works or if ground movements exceed the anticipated levels.

