



GOLD MINE
CAROSUE DAM, WA

KEY STATS

1MWp mineral extraction site

5 year solar lease

Reducing site energy cost
by ~40% per kWh



WHY MAVERICK?

Re-deployability

Asset owners have the **option to redeploy** or remove systems if customers need to move to another site or cease operations. Nomadic Energy can either renew the solar lease with Northern Star Resources Limited or redeploy and lease the system to a new customer.



Modular design

Shipping to remote sites is **simple, quick and low risk** because everything is prefabricated in our manufacturing partner's factory, packed into trucks and ready to roll out onsite. For remote sites like these, there is zero room for error.



Ultra rapid deployment

1MWp in 1 week with only a team of three people. Not only does this mean less labour and skilled labour on site, but **reduces time on site by 90%** compared to traditional solar farms.





5 YEAR LEASE

P R E - F A B R I C A T E D

C L E A N E N E R G Y

R E D U C E D R I S K

P R O B L E M

Due to their remote locations, many mine sites in Australia currently rely on PPAs from leased diesel or gas generators; an expensive exercise that is highly exposed to fuel price volatility.

These sites need predictable and sustainable energy pricing, and site managers generally cannot commit to PPAs from traditional renewable sources, typically needing 10+ years to make financial sense, with mine lives often shorter than this.

These sites tend to be remote, so installing renewable energy is traditionally complex and expensive.

S O L U T I O N

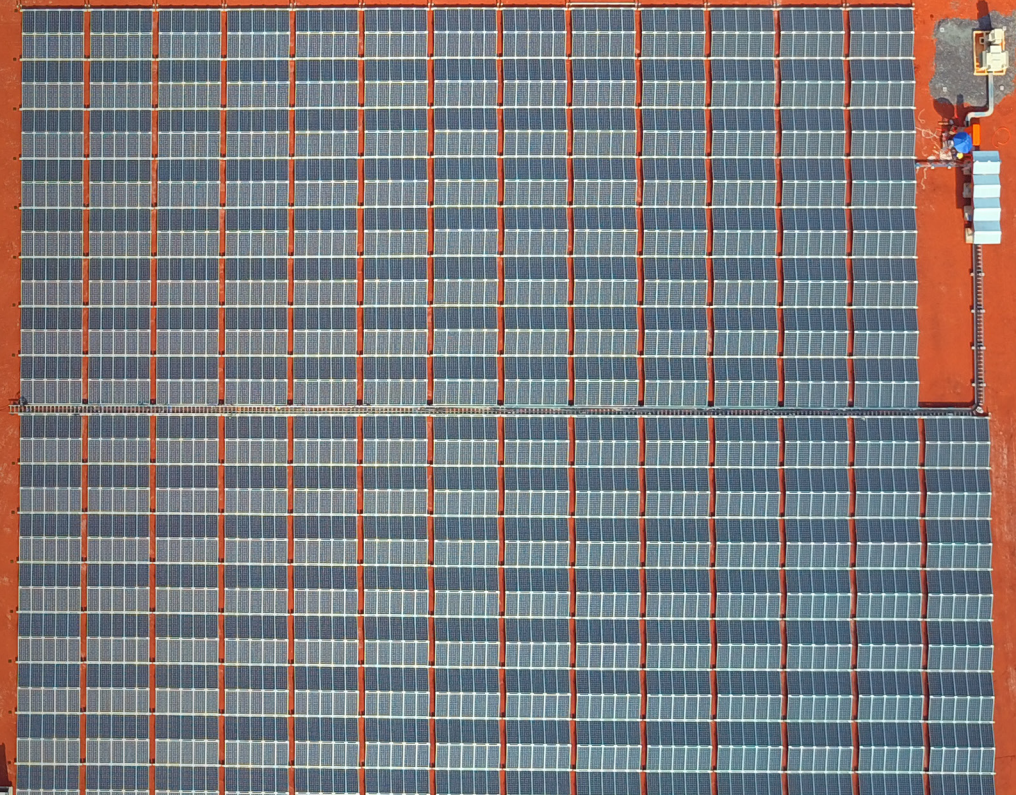
In partnership with Nomadic Energy, 5B developed a groundbreaking solution to enable the use of clean and cost effective energy for an operation that wanted shorter term options than the traditional PPA agreements which are typically longer than 5 years. Having flexibility is a key consideration to mid-Tier mining companies when reviewing the adoption of this quick payback and low cost solar farm option.

The result is an unprecedented five year solar lease, made possible with our MAVERICK technology, that comes closer to matching a generator's versatility, without fluctuating prices, costly fuel deliveries and negative environmental impacts. 5B's flagship technology is a unique enabler of short term solar leasing, as a result of its prefabricated, modular and re-deployable design.

Originally developed for speed, ease of deployment and low cost, MAVERICK solar blocks are also ideal for temporary operations. Their deployment involves minimal onsite work, simplifying logistics & reducing overall project risk, and is an easily reversible process if redeployment of the solar system is required.

HOW DOES IT WORK?

The arrangement is similar to a traditional equipment lease. Nomadic Energy leases the MAVERICK blocks and associated equipment from 5B, manages the system's integration and operational performance, and sells the energy generated to Northern Star Resources Limited, with attractive options to extend further into the solar asset's 20+ year design life. The mine can now benefit from a low, reliable cost of electricity, without being locked into a contract duration that would significantly exceed similar arrangements with their incumbent, diesel/gas IPP. Once the term expires, Nomadic Energy has two options; to either extend the system PPA with Northern Star Resources Limited or redeploy the solar farm on another customer's site.



← 5 YEAR PPA →

NOMADIC ENERGY

← 5 YEAR LEASE →



KEY OUTCOMES

“ 5B's MAVERICK technology provides an exciting and unique option in delivering our core product of short-term solar PPAs designed specifically for mining companies operating in remote environments. ”

- Simon James, Director and Co-founder, Nomadic Energy



As the first of its kind in Australian mining, this pilot has already yielded electricity savings to the mine's operations (reducing the per unit cost of electricity by -40%), and has the potential to proliferate in similar sectors globally.

The project allows Nomadic Energy to either renew short term contracts with their customers, or redeploy systems for new customers; MAVERICK is warrantied for redeployments by a Tier 1 module manufacturer. This has broad and positive implications for IPPs, finance providers & asset owners across the mining, construction, and various other sectors.

The use of 5B's MAVERICK solution creates an easily accessible model for site operators to utilise clean energy and reduce emissions. Operations of sites with a limited time horizon benefit from the ever decreasing costs of clean power.

This unprecedented flexible leasing arrangement is a game changer for Australia's mining sector, demonstrating that mining sites can reduce their energy costs as well as their carbon emissions, with minimal risk or impact to operations.