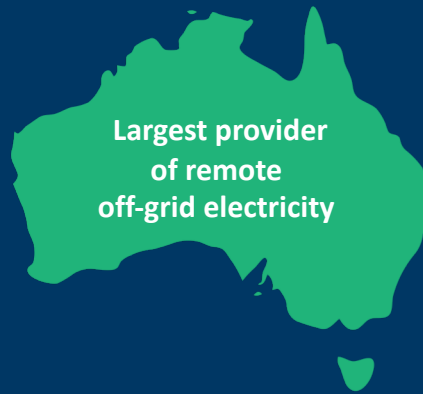

ENERGY & MINES 2024

How is decarbonisation changing energy for mines?

Owen Lock, Principal Application Engineer

Who is Pacific Energy?

40
YEAR
HISTORY



900MW
CONTRACTED
CAPACITY



48
LONGT
ERM
PPAs



A TEAM OF 550+
ACROSS 8 LOCATIONS



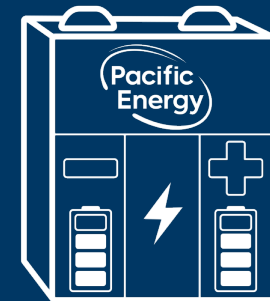
DECARBONISING
MINING, INDUSTRY
& GOVERNMENT



172MW SOLAR



33MW WIND



106MW BESS

Pacific Energy Assets & Interconnected Networks

Pacific Energy’s owned-and-operated power generating assets.

- | | | |
|--|--|---|
| 1 Jacinth Ambrosia
Iluka Resources | 15 Bluebird
Westgold | 29 Karlawinda
Capricorn Metals |
| 2 Jaguar
Aeris Resources | 16 Deflector
Silver Lake Resources | 30 Abra
Galena Mining |
| 3 Tropicana
AngloGold Ashanti | 17 Canning Basin
FMG | 31 Coburn
Strandline Resources |
| 4 Juardi
Beacon Minerals | 18 Bootu Creek
OM Manganese | 32 Sandy Ridge
Tellus |
| 5 DeGrussa
Sandfire Resources | 19 Fortnum
Westgold Resources | 33 Tropicana Borefields
AngloGold Ashanti |
| 6 Esperance
Horizon Power | 20 Thunderbird
Kimberley Mineral Sands | 34 Odysseus
Western Areas |
| 7 Red October
Linden Gold | 21 Blue Rock
Meridian Energy | 35 Binduli
Norton Gold Fields |
| 8 Moolart Well
Regis Resources | 22 NovaPower
NEM | 36 Nullagine
Novo Resources |
| 9 Thunderbox
Northern Star Resources | 23 Mt Cattlin
Allkem | 37 Mt Ida
Aurenne Group Mining |
| 10 Garden Well
Regis Resources | 24 Horizon Midwest
Horizon Power (7 stations*) | 38 Norseman Gold
Pantoro Limited |
| 11 Gwalia Deeps
St Barbara | 25 Murchison Observatory
Horizon Power | 39 Big Bell
Westgold Resources |
| 12 Mt Weld
Lynas Corp | 26 Matilda
Wiluna Mining Corporation | 40 Tuckabianna
Westgold Resources |
| 13 Carosue
Northern Star Resources | 27 Pilgangoora
Pilbara Minerals (2 stations) | 41 Canberra H2 Refuelling Facility |
| 14 Higginsville
Karora Resources | 28 Savannah
Panoramic Resources | |

*Cue, Meekatharra, Mt Magnet, Norseman, Sandstone, Wiluna, Yalgoo



Energy procurement changes

- Decarbonisation pressure mounting
- Financial backing sound – no longer a value add
- Greater ambitions for RE mix
- Literacy improvements for techno-economic & ESG



Microgrid interconnection opportunities

- Microgrid connections already on their way
- Huge opportunities and significant challenges
- Benefit from strength, diversification and standardisation
- Return value to the network
- Primary, secondary and tertiary control changes
- Careful thought and planning for true interoperability

Policy and regulatory pressures

- Tighter performance benchmarks
- Time pressures and project sequencing
- Maturation of grid compliance
- Scrutiny for control and protection standardisation
- Greater oversight and more stakeholders
- Behind the meter operation and compliance “reach”
- Continual advancement of mine electrical infrastructure
- Miners key stakeholders in this transition

Balancing ambitions

- **Carefully planned short-term steps**
- **Roadmap mindset**
- **Avoid choice paralysis**
- **Perfection blocks progress**
- **Wins today but must be flexible**
- **Balance gold plating and long-term view**
- **Exploitation of assets and value stacking**
- **Future augmentation front of mind**

Mine life constraints & decarbonisation planning

- **Highly active and not deterred**
- **Historically difficult investment hurdle**
- **Bang for buck**
- **‘Do nothing’ case no longer valid**
- **Gain wins, build confidence and don’t wait**
- **Take calculated risks**
- **Asset redeployment – short life**
- **Asset redirection – network changes**
- **Readiness to pivot key in success**



Future developments

- Aggressive targets
- Network modernisation
- Regional changes
- Healthy competition
- Collective ambition
- Practicality over perfection
- Transparency
- Optionality
- Mutual benefits
- Stakeholder role change

Q&A

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