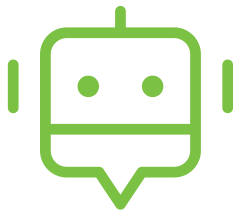# Supervised AI Generation Energy Management
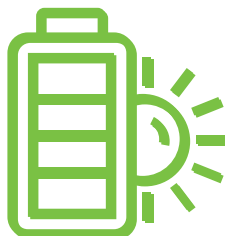
What is GEM?

- Supervised AI Generation Energy Management

- Generation optimisation software to maximise asset revenue and VPP ROI

Key benefits

- Real time monitoring and control via GEM interactive portal

- Market Reactive every 5 minutes to optimise control

- Operates 24/7/365 across the NEM and WEM

- Forecasting RRP for Semi-scheduled generation and Energy Storage Systems, including VPPs

Delivering

- Avoidance of negative pricing

- FCAS and Energy Arbitrage

- Customisable price trigger points to manage risk exposure

- Generator conformance (AEMO bidding and AER guidelines)

- Behind the meter and grid-facing battery control

commercial@diamond-energy.com

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Supervised AI Generation Energy Management

Maximise profitable production

- Simply nominate customisable price set points to manage exposure to risk
- We help you manage AEMO non-conformances and FCAS charges
- We deliver you a long term value solution

How does GEM work?

- Your generator is aligned to RRP, FCAS and your contracts
- Co-optimised with FCAS
- Seamless integration to generation and storage facility using our hardware solution, **Solar iTrack**, on-site or our software-based API solution
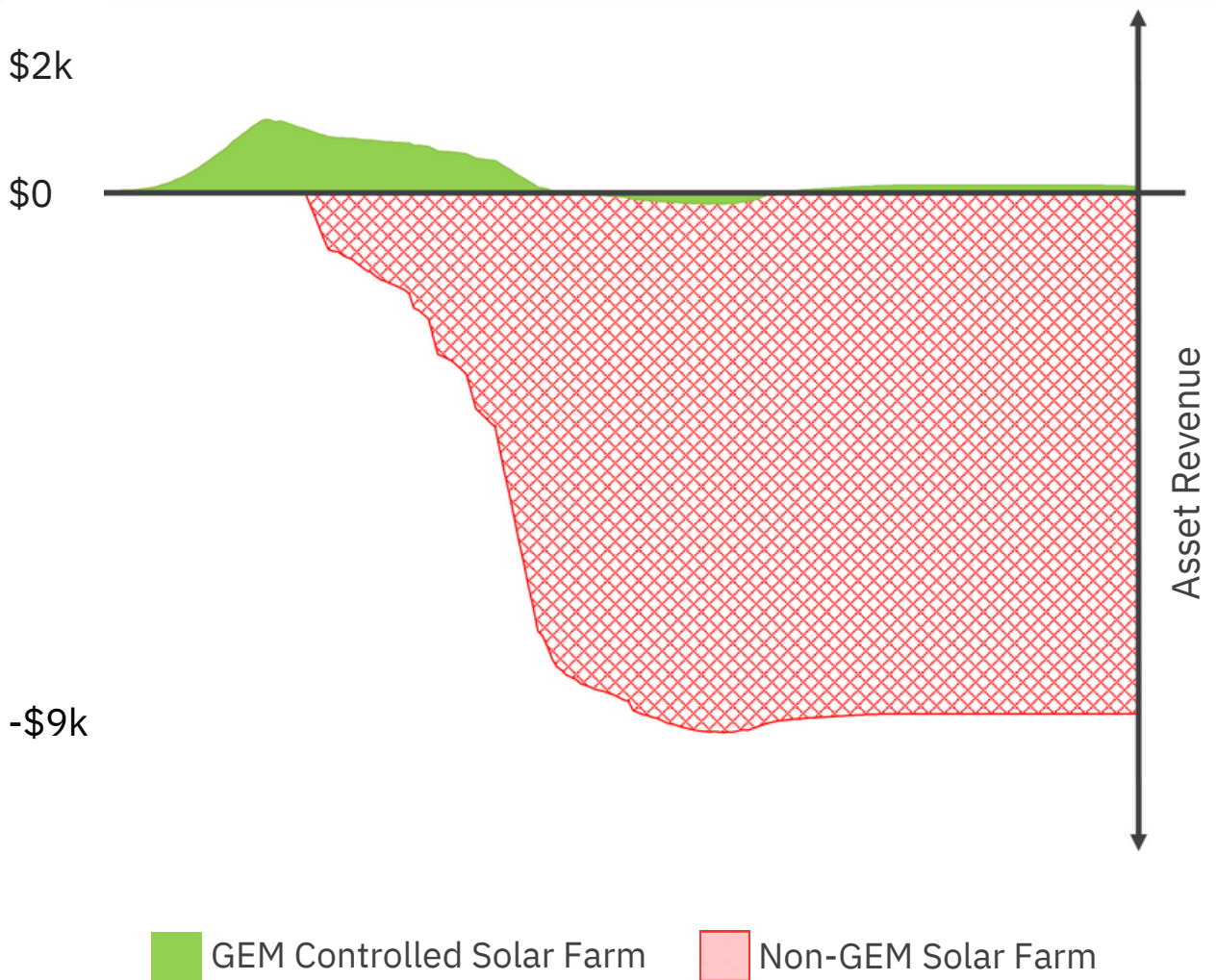
Why Diamond Energy?

- Australian based renewable energy generation and retail electricity company
- Unique innovative offers
- Offering a strategic solution for semi and non-scheduled generation

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DiamondGEM™ Case Study

You can save ~$50k p/a (per 5MW)*

GEM Savings Non-Scheduled SA 5MW Generator
day earnings

Asset Revenue

$2k

$0

-$9k

■ GEM Controlled Solar Farm   ▢ Non-GEM Solar Farm

*Based on actual event for SA RRP (13/03/2023), assumed 6 similar events per annum, actual generator results standardised to 5MW AC, assuming trading 5 minute intervals.

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