

#### MATT GROVER | 26 AUG 2025

How the NEM BESS fleet is operating on peak days, & how to be a savvy operator

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Transform the way we power our world to create a more sustainable future.

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#### **ENERGY STORAGE SOLUTIONS (1)**





265
PROJECTS

SERVICES (2)



#### **OPTIMIZATION SOFTWARE** (2)

**MOSAIC** 

**GW OF AI-OPTIMIZED BIDDING OF RENEWABLES AND STORAGE** 







**NISPERA** 

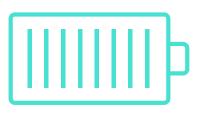
19

**GW OF RENEWABLE AND** STORAGE ASSETS UNDER **MANAGEMENT** 

(1) Deployed or contracted as of June 30, 2025

(2) Contracted or assets under management as of June 30, 2025

## Two key questions for today





1) How is the NEM's fleet of BESS trading and operating, on key days?

2) What tools does a BESS trader need in the toolkit, to navigate key days?

# Key themes we will explore today

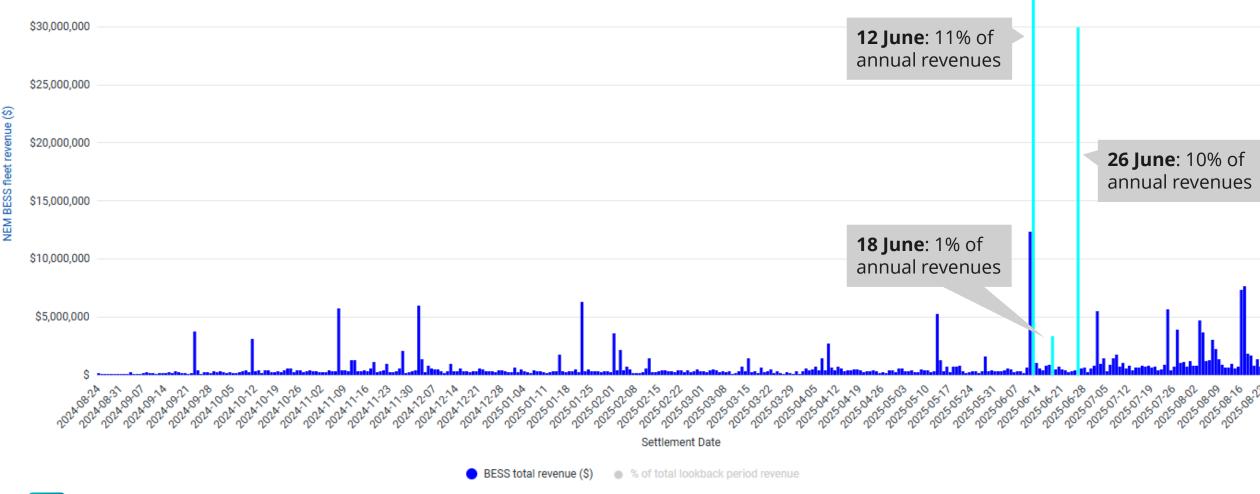
- 1. BESS have diverse objectives and diverse operations
- 2. BESS are trading using a combo of algorithmic bidding + human direction
- 3. Benchmarking or quantifying a BESS' 'trading performance' requires nuance





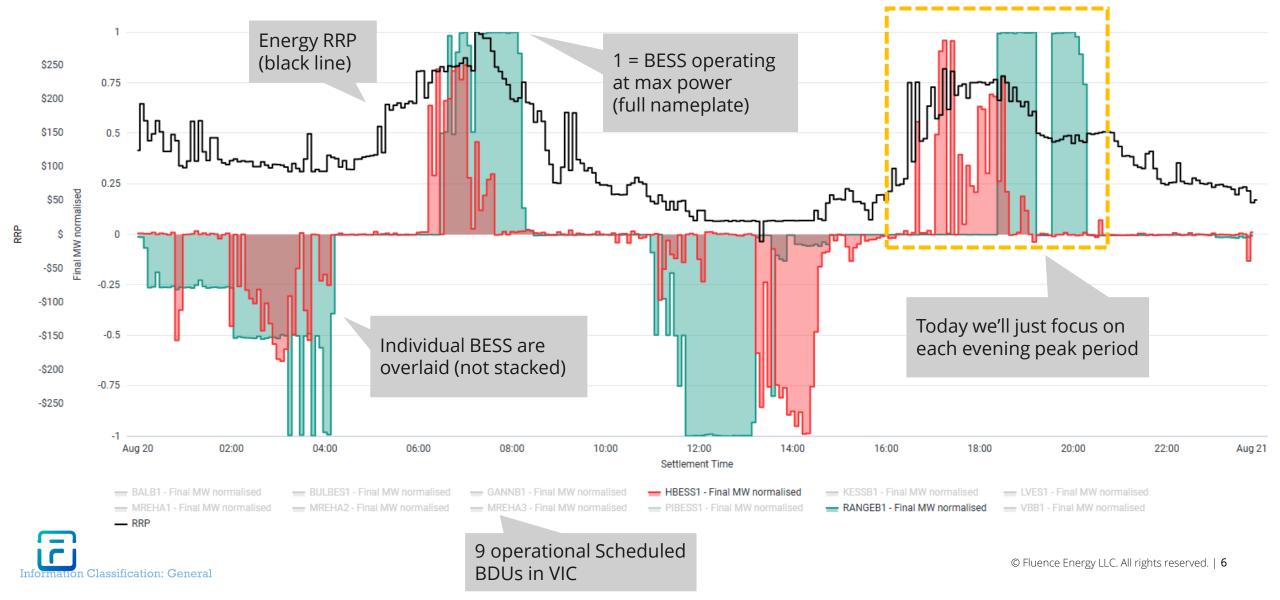
## Deep dive on 3 days in June

Chart: NEM BDU fleet total daily wholesale revenue, last 365 days to 23 Aug





## Chart orientation: each BESS' MW are normalised, as if each BESS were the same size (in MW)

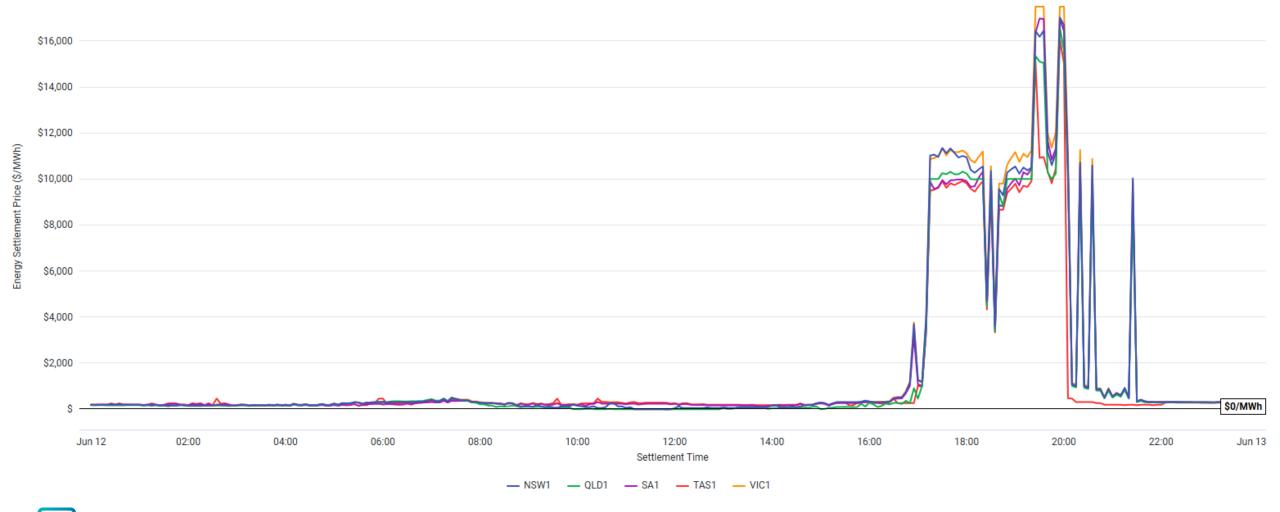




Day one: 12 June 2025

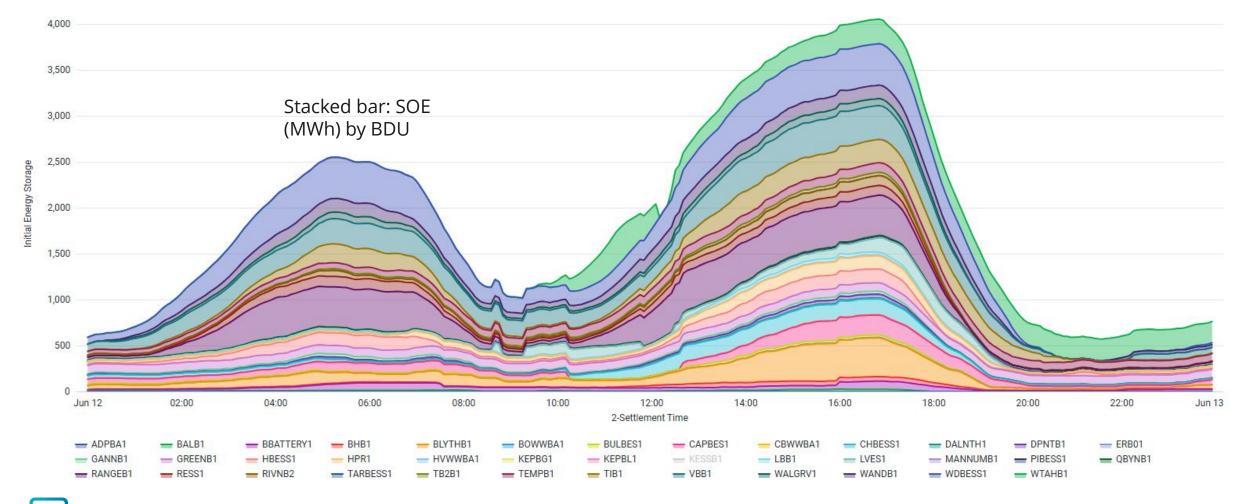
## 12 June 2025

~2 Hours of prices at ~\$10,000 followed by ~25min of prices at ~\$17,500



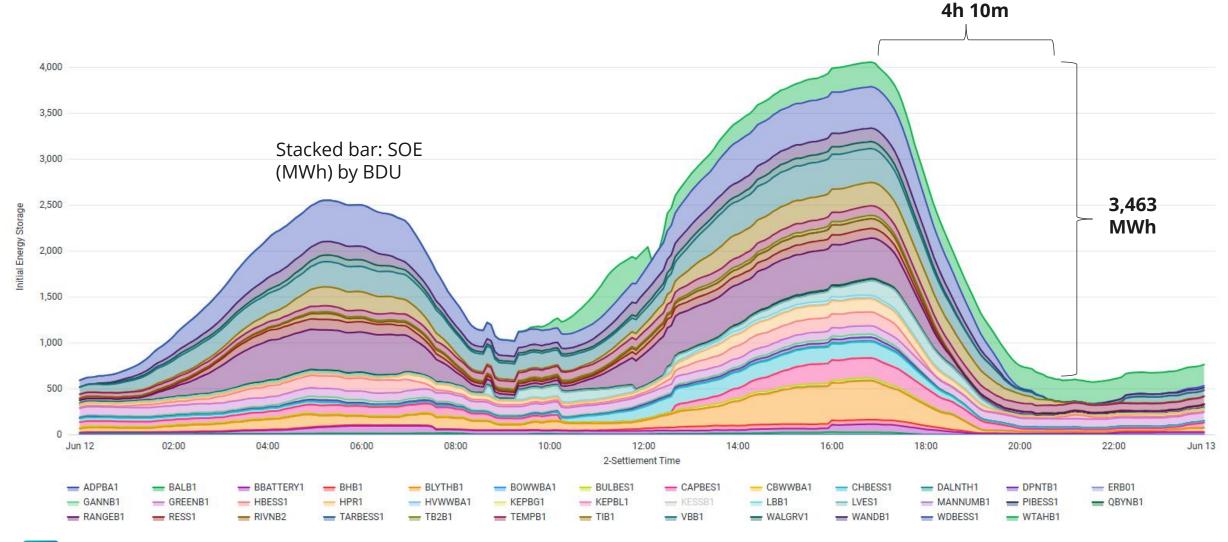


## The BDU fleet is operating in a diverse manner



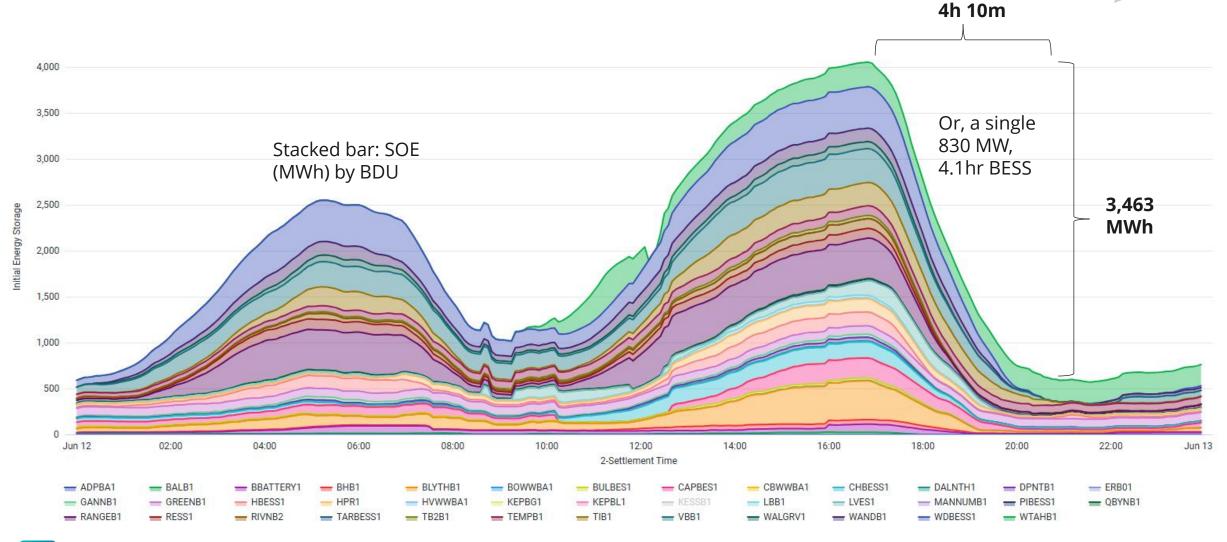


## The BDU fleet is operating in a diverse manner



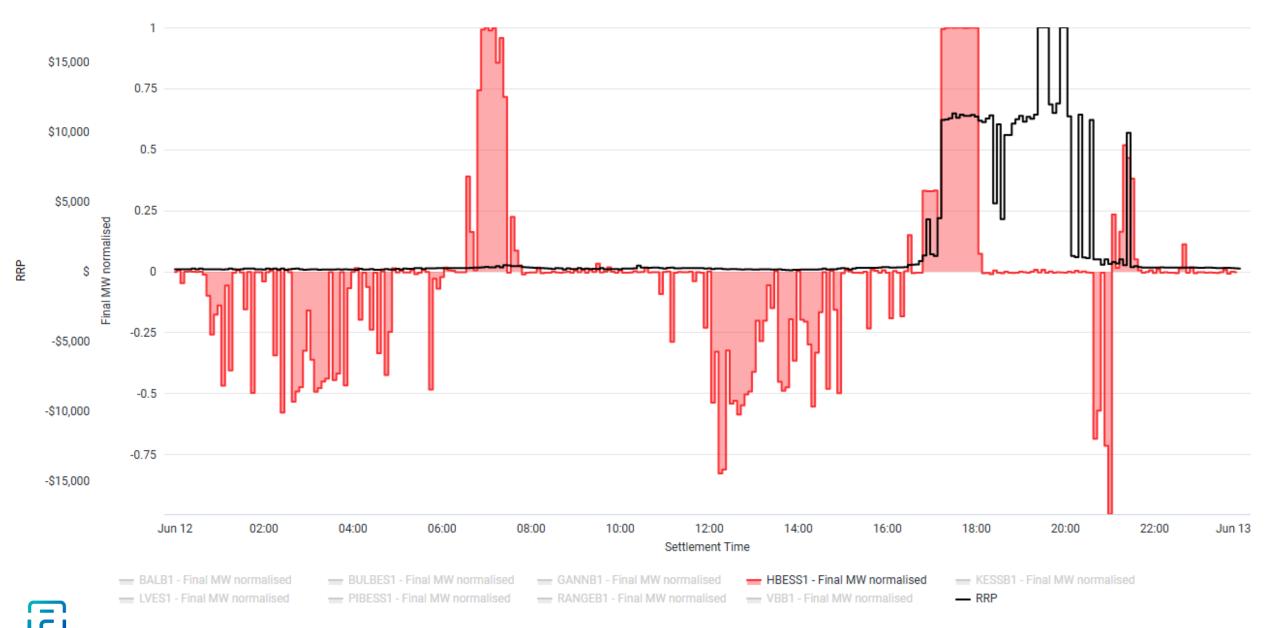


## The BDU fleet is operating in a diverse manner

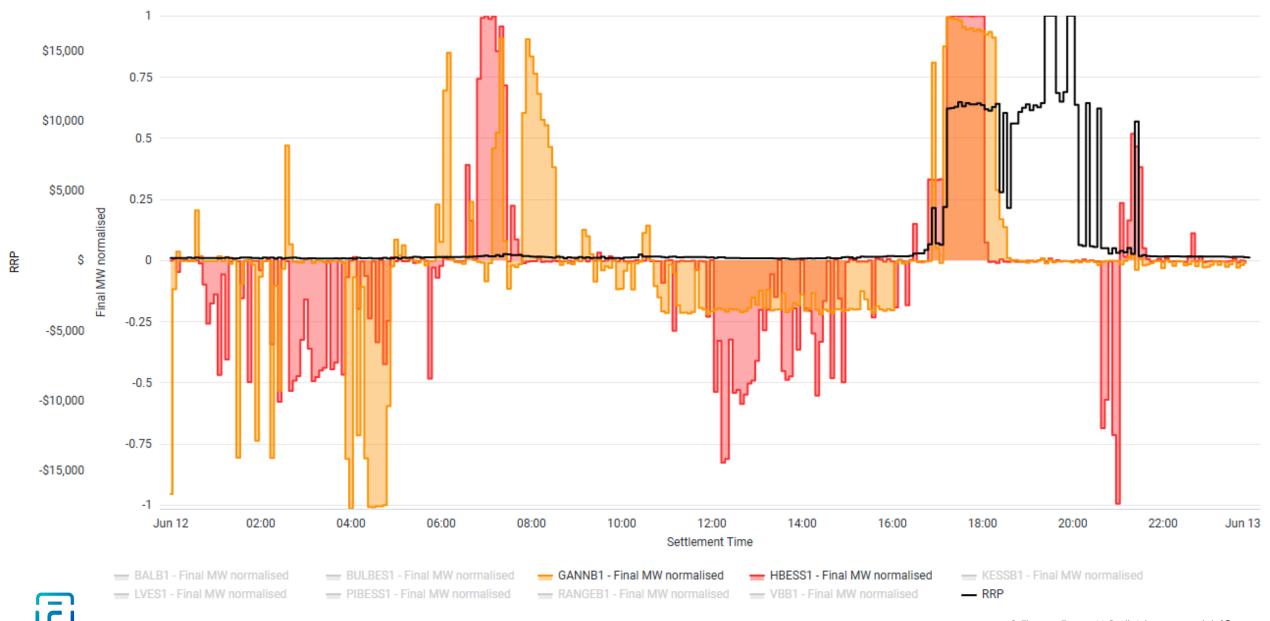


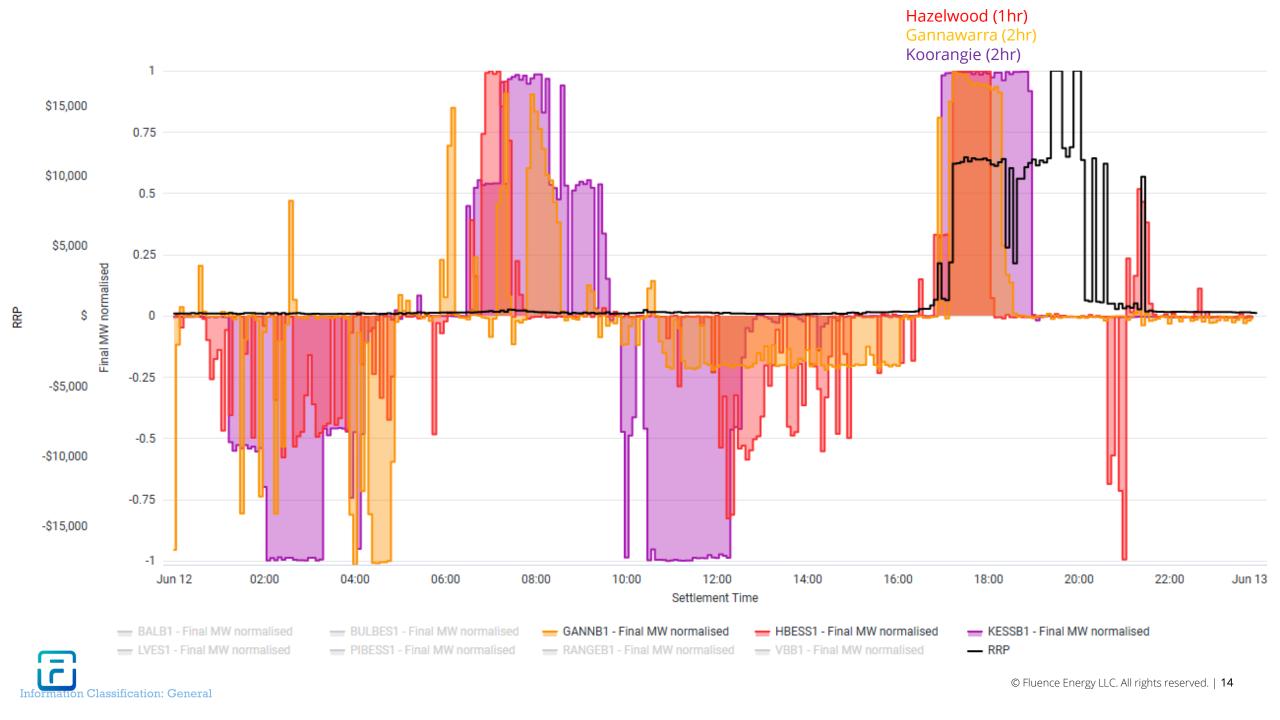


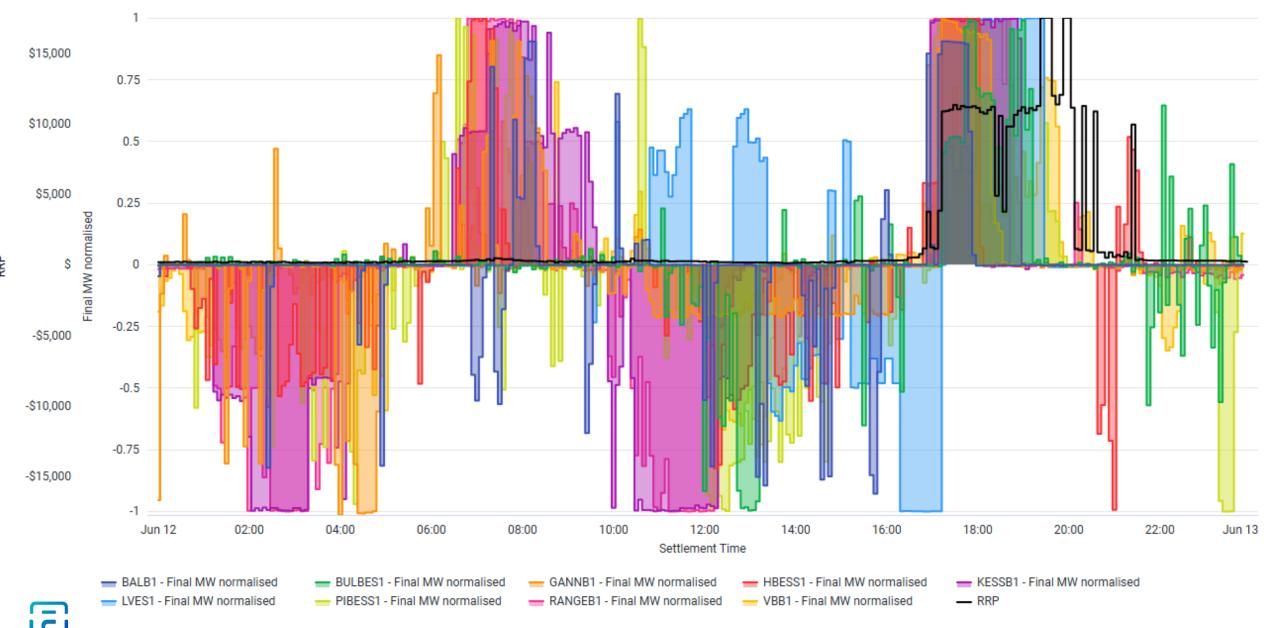
#### Hazelwood (1hr)

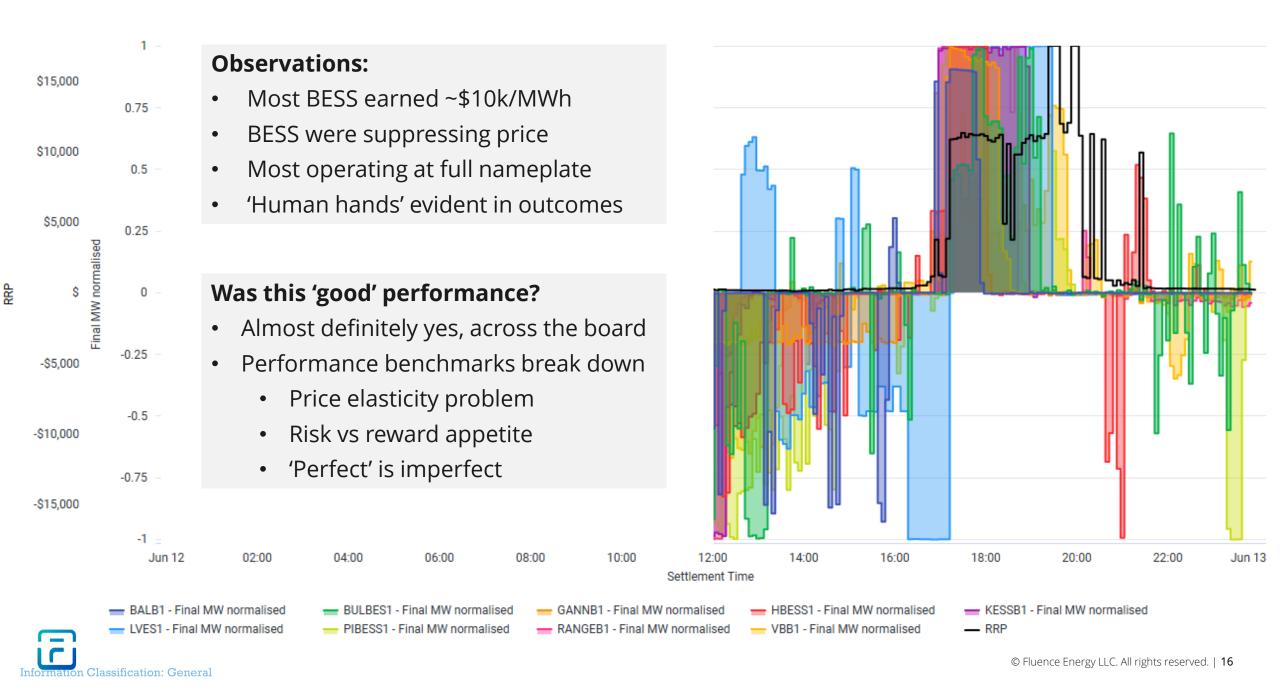


#### Hazelwood (1hr) Gannawarra (2hr)







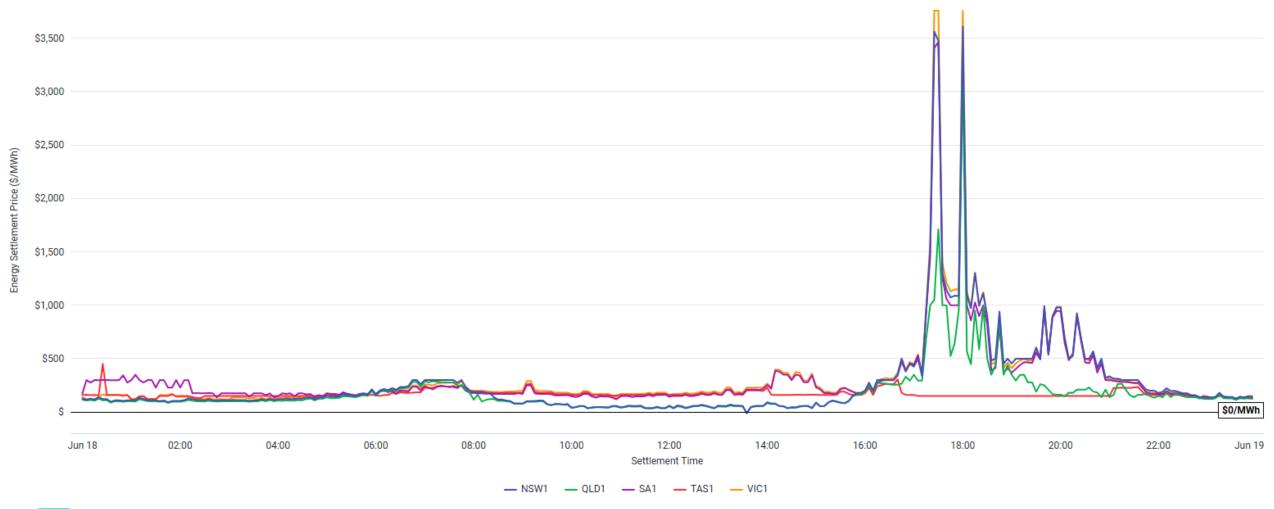




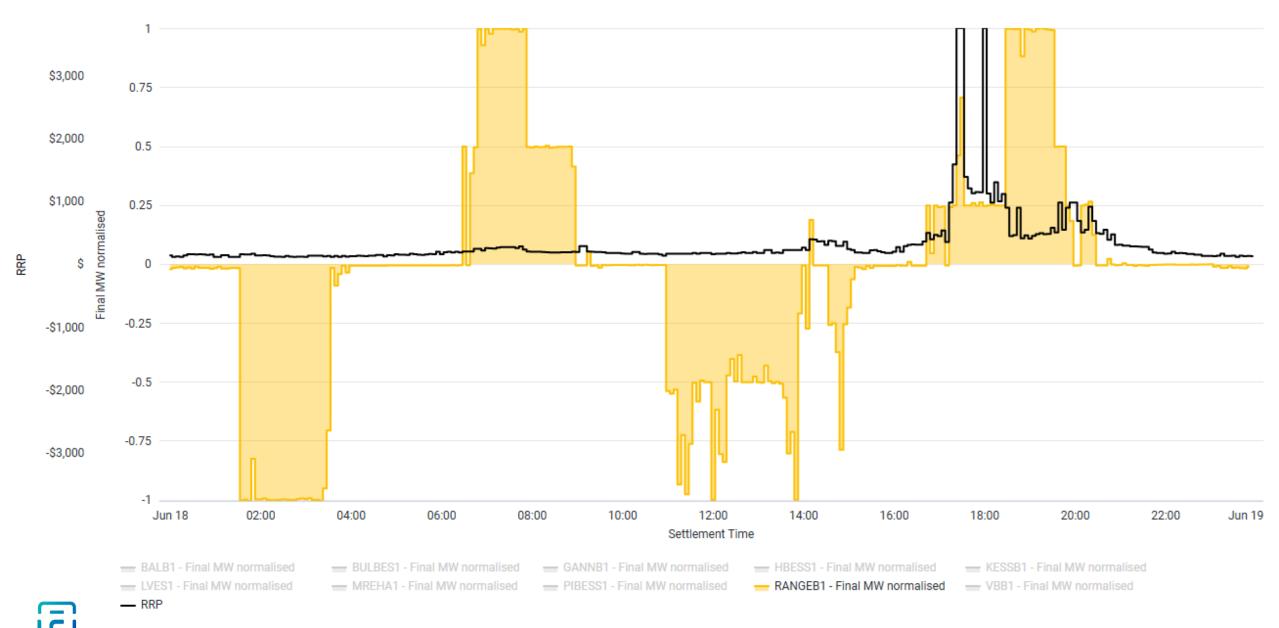
Day two: 18 June 2025

## 18 June 2025

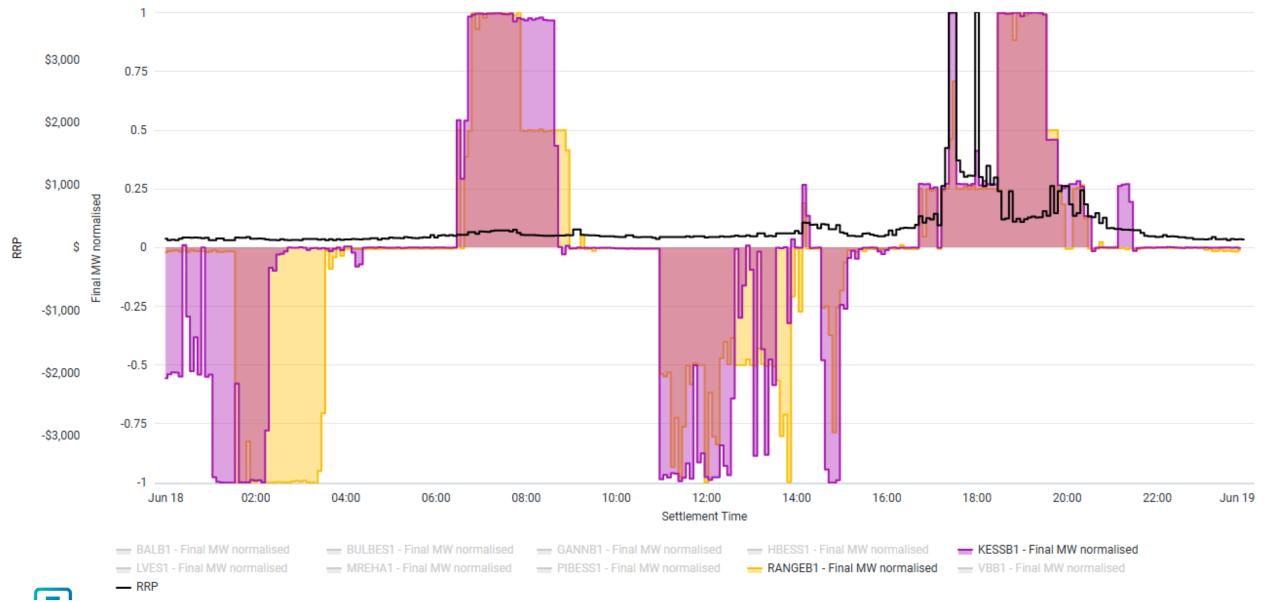
3 spikes to ~\$3,500 / MWh amongst 2hrs total > \$700 / MWh

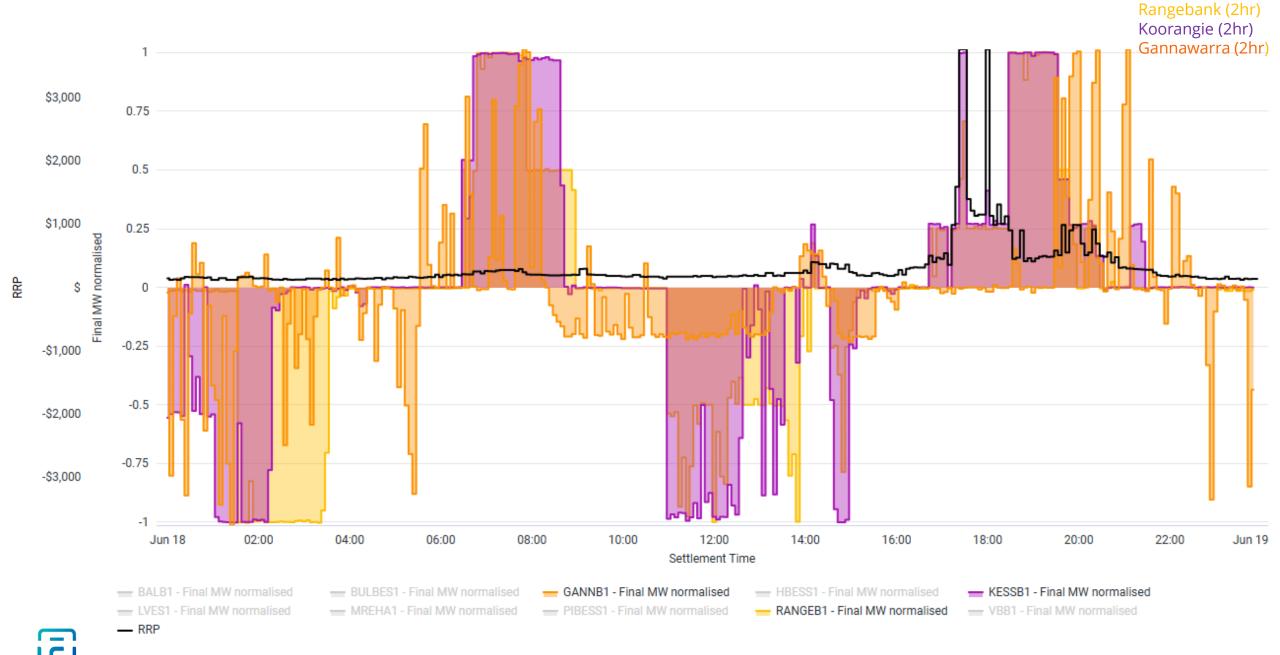


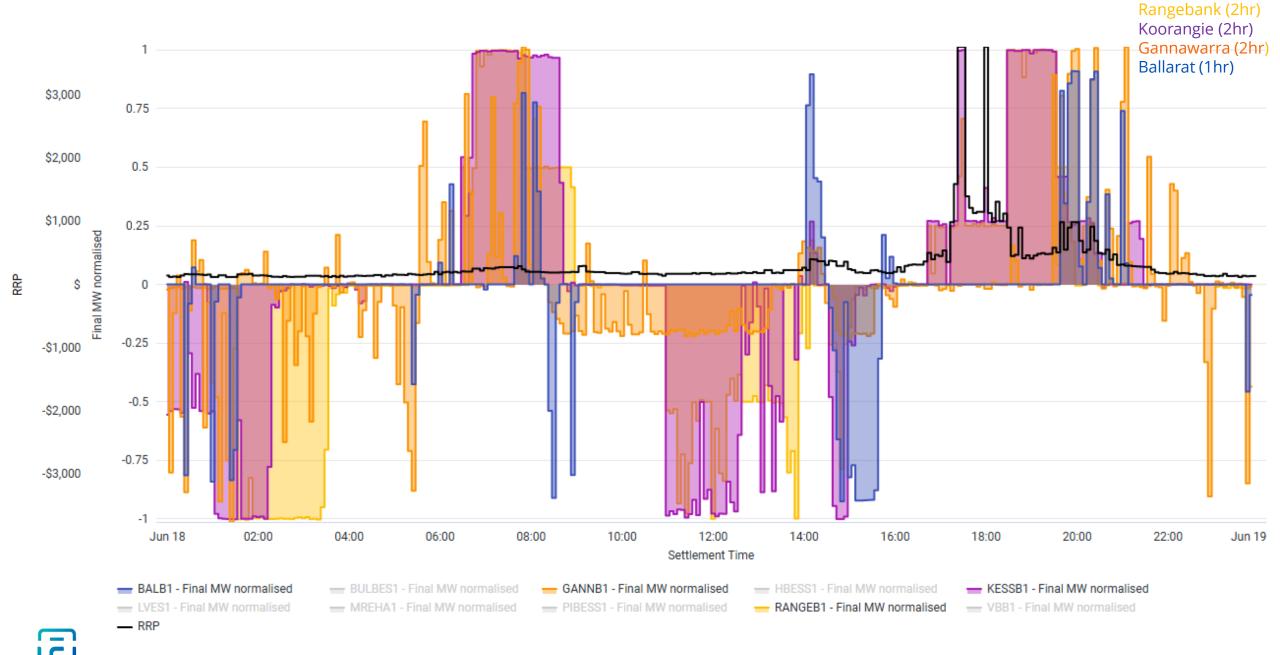


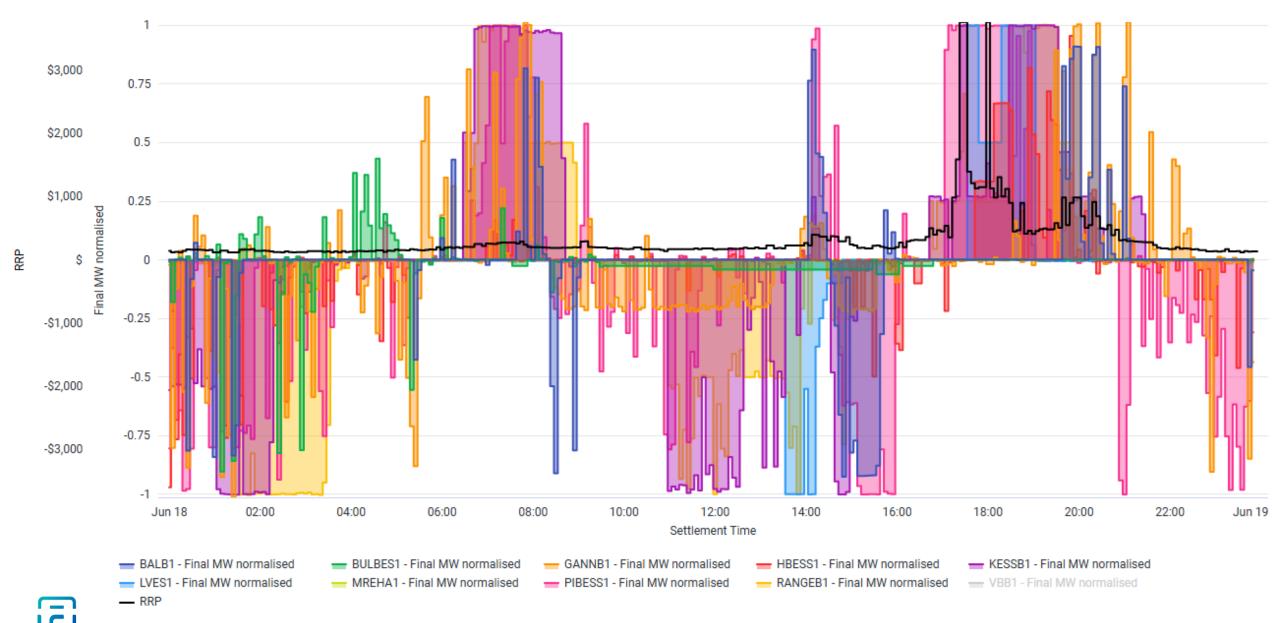


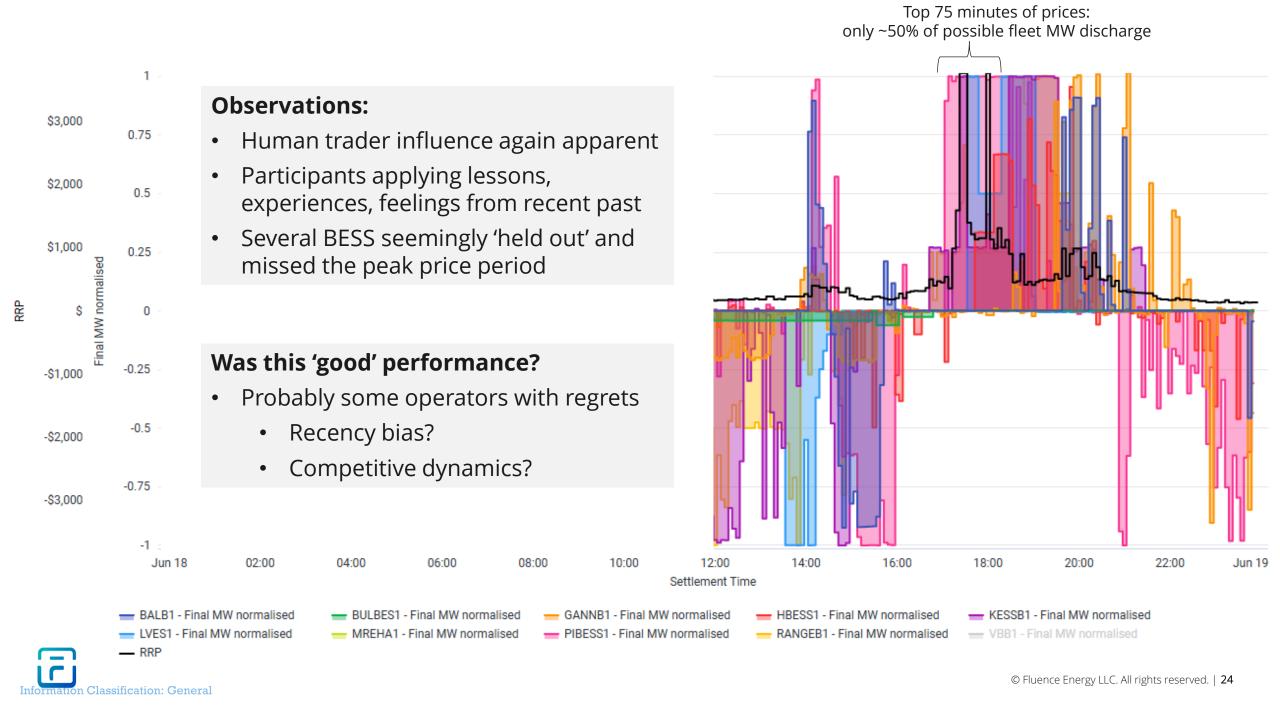
#### Rangebank (2hr) Koorangie (2hr)









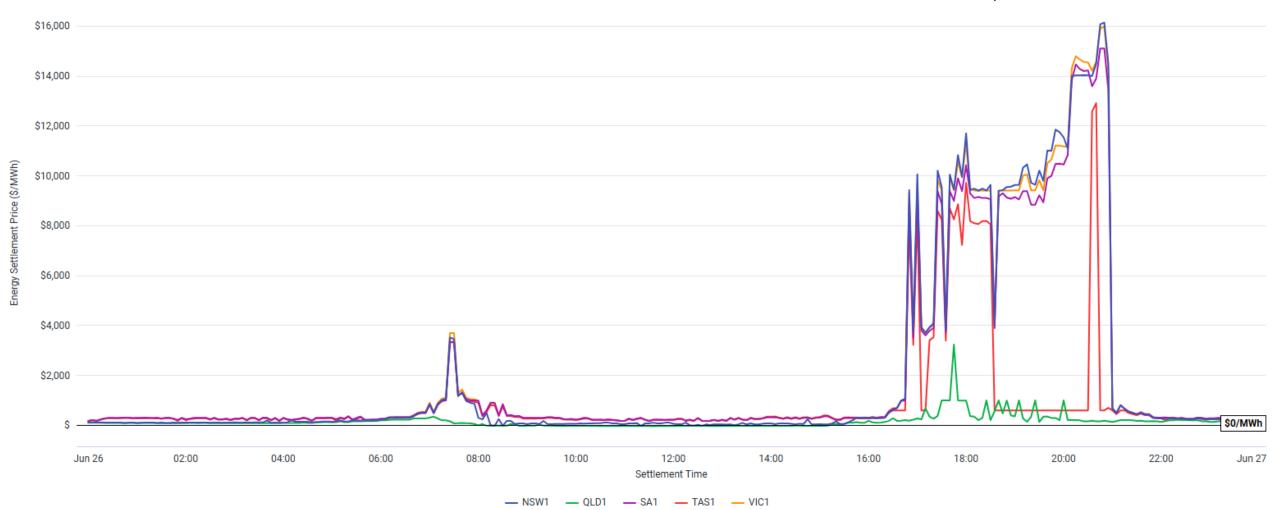




Day three: 26 June 2025

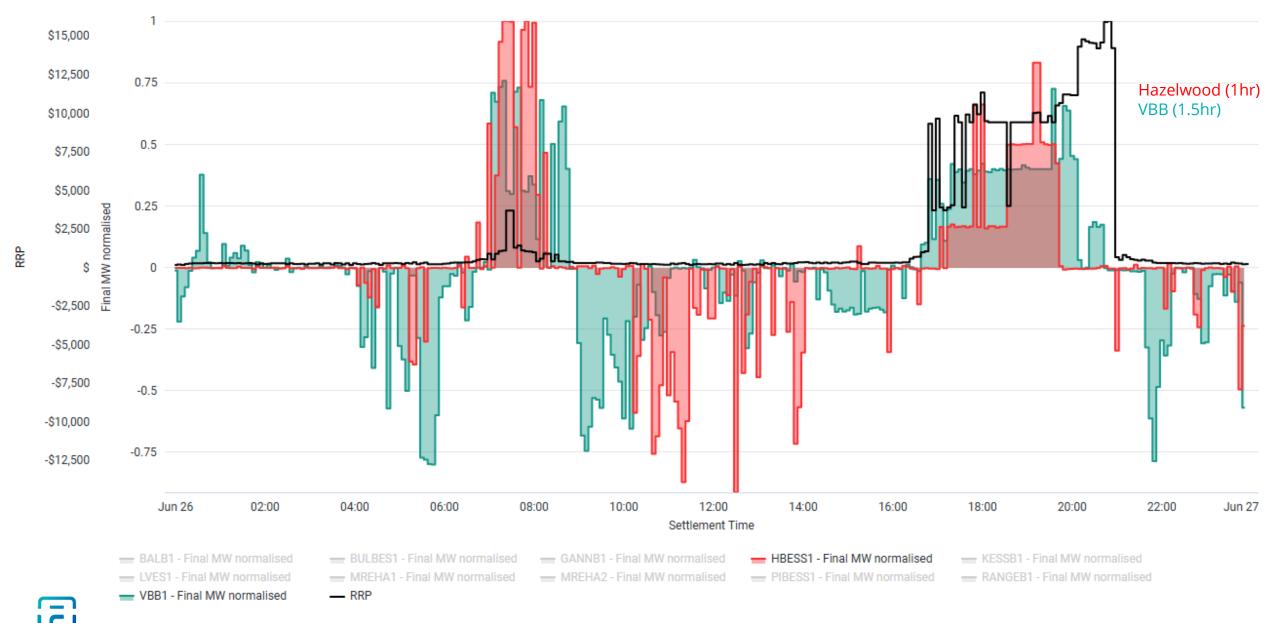
## 26 June 2026

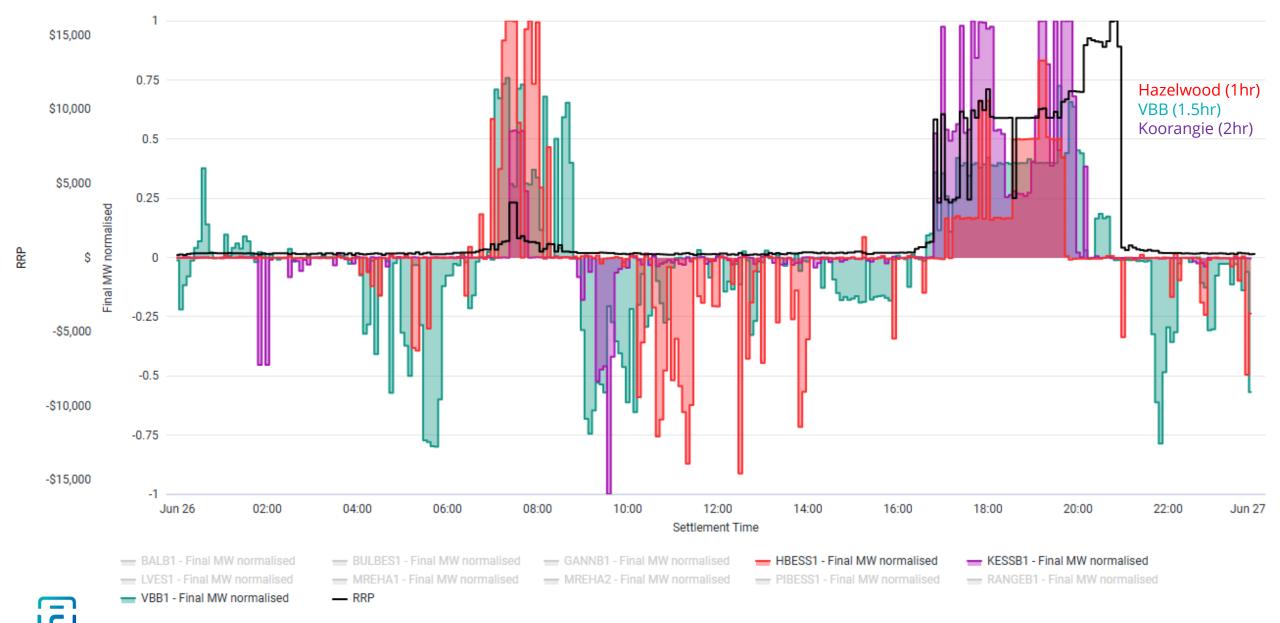
~2 Hours of prices at ~\$9,000 followed by ~45min of prices at ~\$15,000

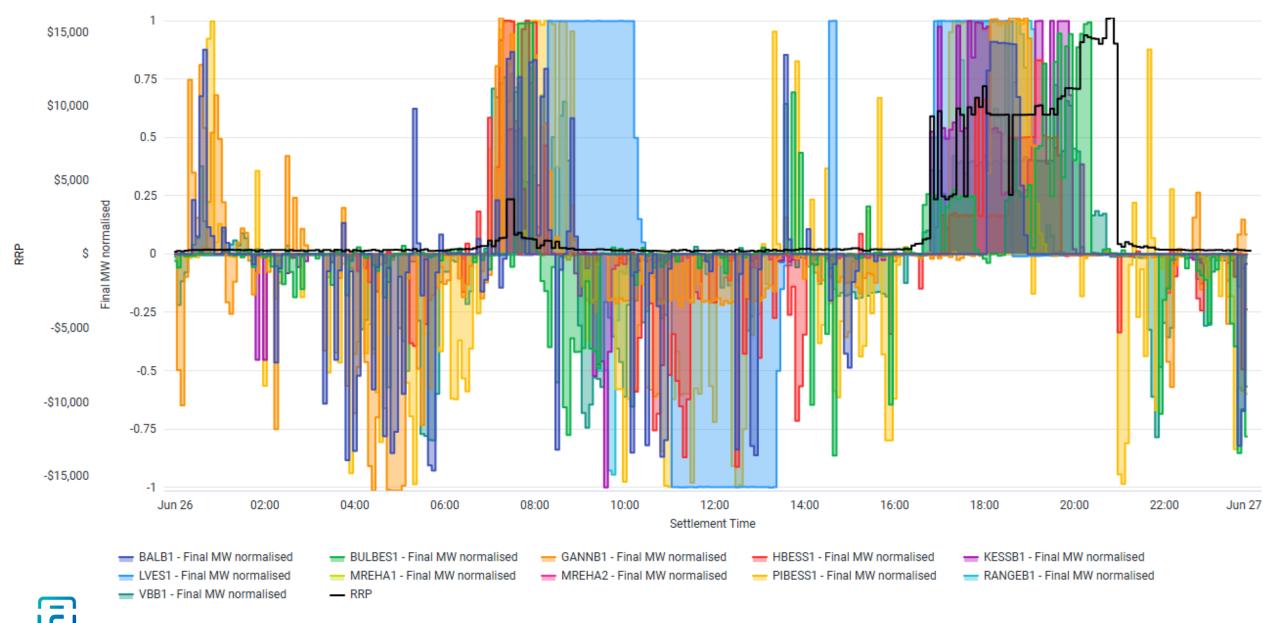


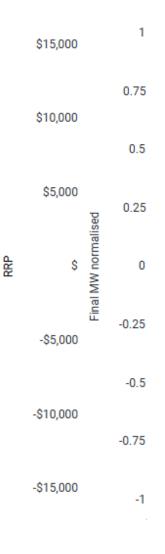










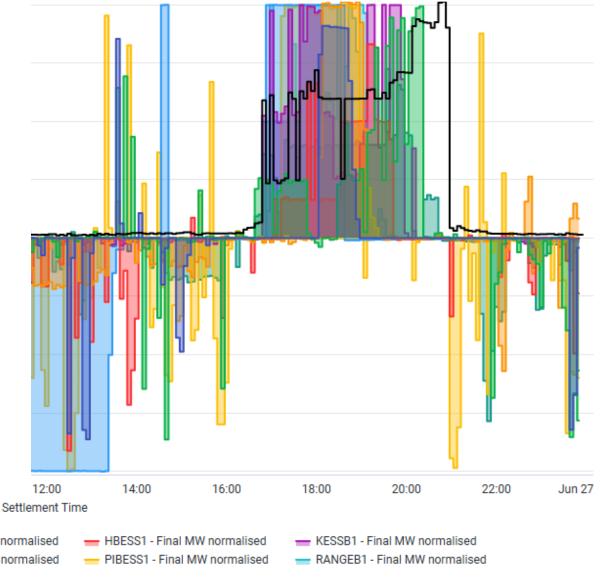


#### **Observations:**

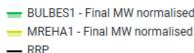
- No one really captured the \$15k peak
- 'Duration stretching' starting to be employed as a risk management tool
- Again, human hand + lessons from the recent past being applied

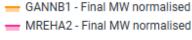
#### So, was this 'good' performance?

- Almost definitely yes
- Just like 12 June, the peak prices were not realistic to have captured





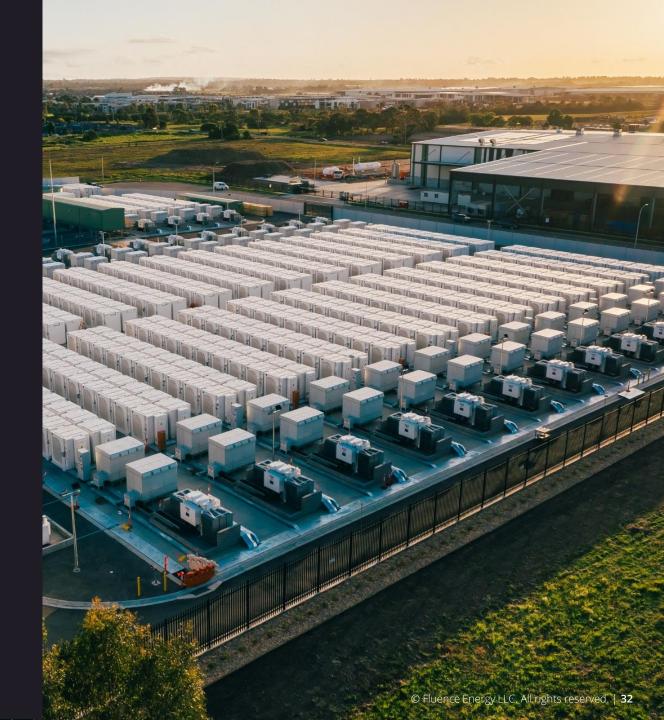




#### Conclusions

- ✓ Lots of individual short-duration BESS pursuing own objectives = diverse, long-duration aggregate effect
- ✓ Market participants have varying risk appetites and risk/reward tolerances
- ✓ Behind every algorithm is an attentive spot trading team, adapting strategies
- ✓ 'Duration stretching' is an emerging risk hedging technique
- ✓ Performance benchmarking and 'perfect' metrics are imperfect on big days





## What tools & capabilities do you need, to perform on peak days?







**Matt Grover** 

**Director, Energy Markets** 

E-mail: <u>matt.grover@fluenceenergy.com</u>

Thank You