

Demand Management

Our approach

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Volatile Energy Markets

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Who
we are

We deliver


water, sewerage and recycled water services

1.7
million people

3,640 square kilometre
service area

601
electricity accounts

24,700
kilometre
pipeline



\$3.9 billion
assets



28 GWh
electricity
used
annually

Spot Market Exposure

&

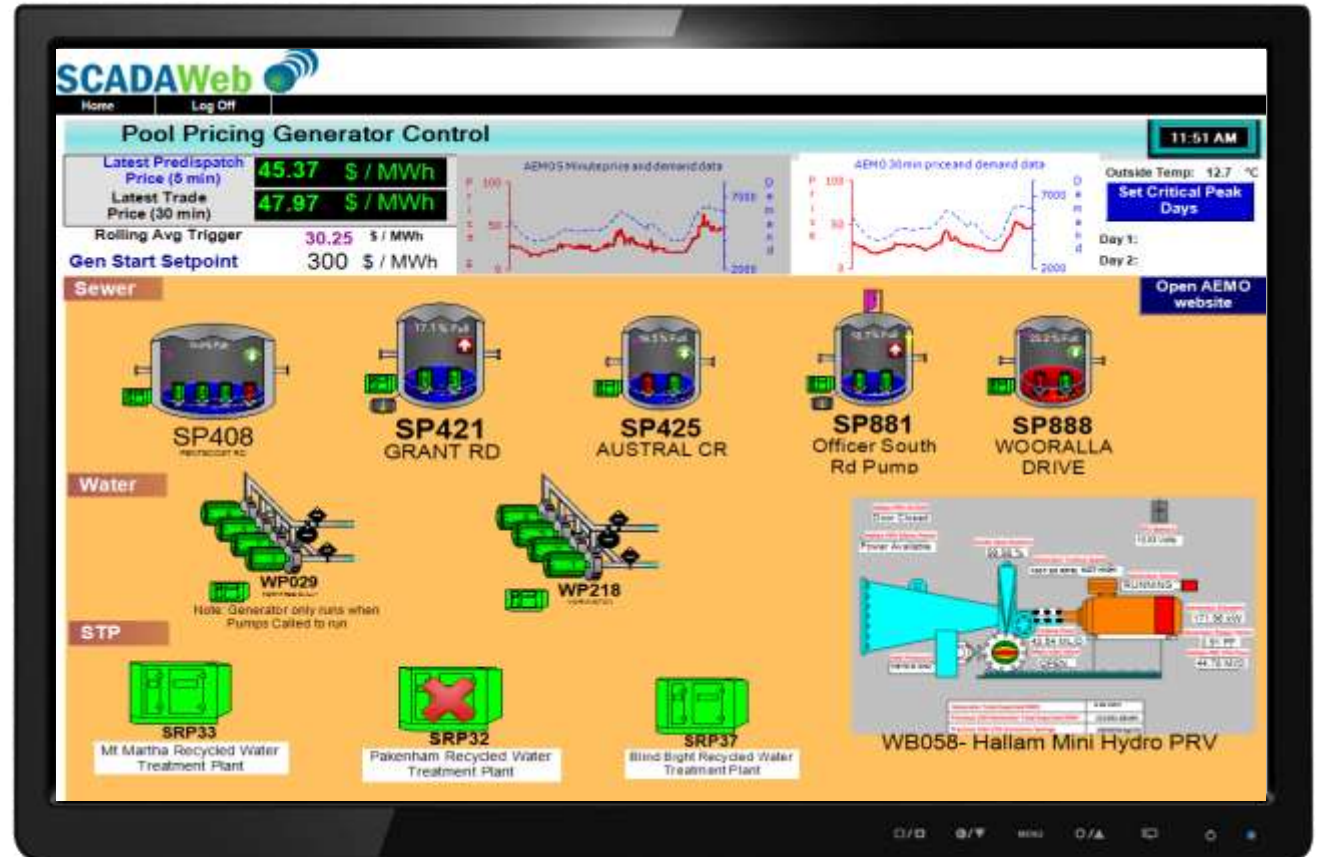
Network Support

What
How
Why
Learnings

Spot market exposure

Automation of assets power-source linked to electricity prices

- When the spot market peaks, SCADA commands assets switch away from mains power to diesel generators.
- Trigger is a rolling average above \$300/MWh
- Utilise current infrastructure
 - Back up generators





11 sites
connected to
the system



Third party
system, now
in-house
development

Ability to shed
~3.2 MW



Synchronisation

- Seamless switch
- Ability to feed excess into grid





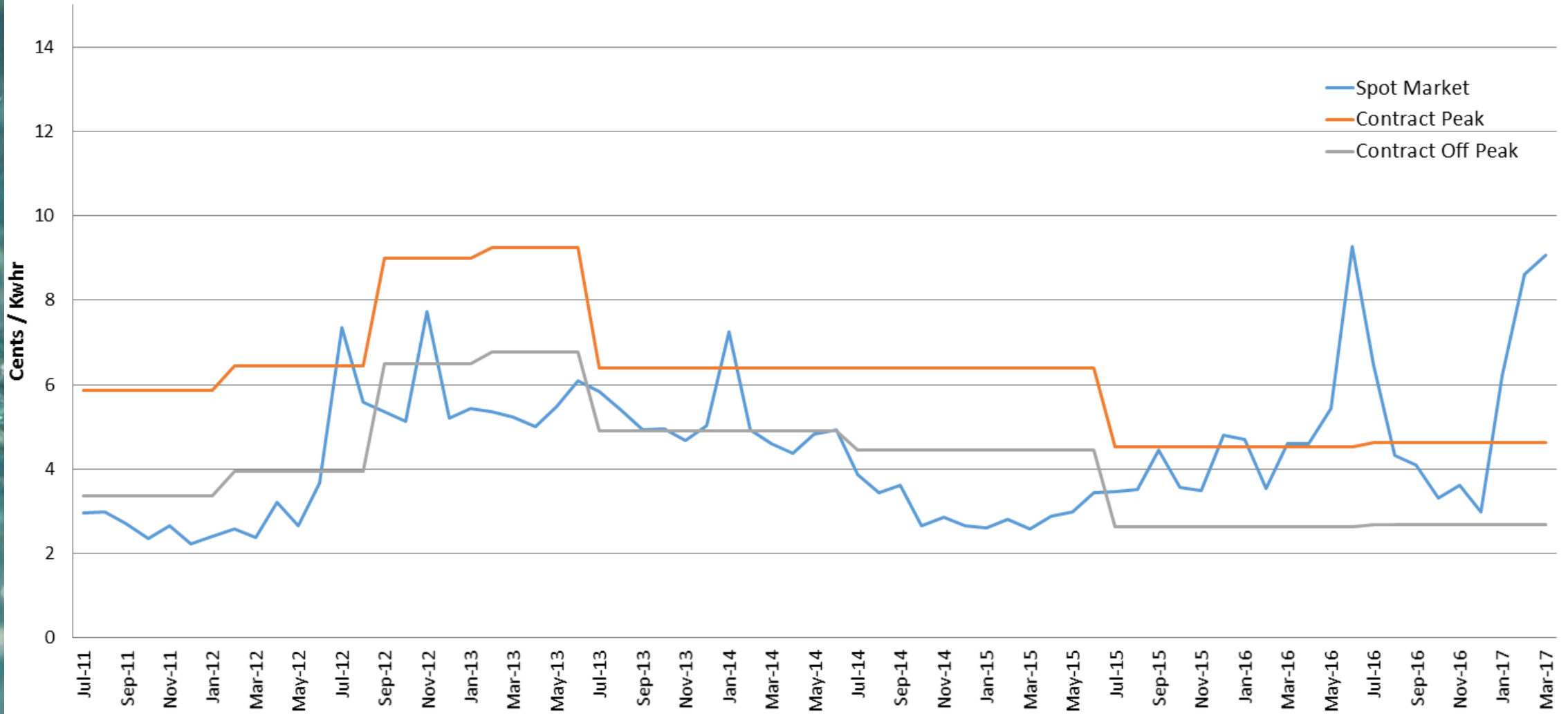
AusNet Critical Peak Demand:

- 5 days per year
- 1 December – 31 March
- Reduce your demand and reduce your tariff
- Utilise our automated system to respond



The savings came pouring in.

Spot Market / Contract Retail Price Comparison





Learnings

- Selection of asset needs to be considered
- More savings if managed in-house
- Not as cost effective if infrastructure is not already in place
- Appropriate generator lagging is required



Photo: Melbourne Water

Network Support

Collaborative study

- Demand Management
- Pre-Feasibility Assessment

Identify opportunities

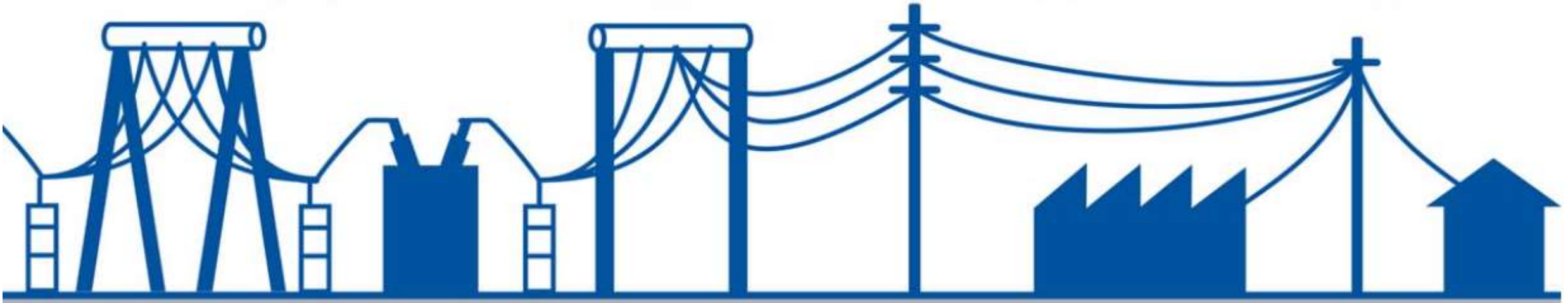
- Tariff Optimisation
- Wholesale Market
- Network Support
- Peak demand lopping

Ability to capture opportunity

- Duration
- Frequency
- Response time
- Marginal cost
- Implementation cost

Our opportunity – Network Support

- United Energy
- AusNet Services



Utilised existing system

- No additional work
- Request can be made via email or SMS
- Start and stop can be pre-programmed
- Compensated for action



Current status

- Support only requested several times within the first 12 months
- Only one agreement still in place
- Agreement ceased due to third party offering wider support
- Currently in talks with third party



Summary



Multiple
benefits



Utilise current
infrastructure
and systems

Quick
response



Synchronisation



*healthy
water
for life*