



# A Commercially Viable Application of Electricity Storage for Australia's National Electricity Grid

## Final Report

**Prepared by:** Reposit Power Pty Ltd  
**For:** ARENA  
**Project:** ARENA Emerging Renewables  
(Measure Number A00598)

## Document Approval

Role	Name	Date Approved
Author	Luke Osborne	13 October 2016
Checked by	Melissa Lawrence	25 October 2016

## Revision History

Document ID	Updated by	Version	Changes	Date
20160922_1_PublicReport_LHO	LHO	1	Initial Release	25 October 2016
20160922_2_PublicReport_LHO	LHO	2	Additional information on Knowledge sharing, outcomes and consumer participation added.	22 December 2016
20160922_3_PublicReport_LHO	MKL	3	Updates as requested by ARENA 17/01/17	20 January 2017
20160922_4_PublicReport_LHO	MKL	4	Updates as requested by ARENA 30/01/17	31 January 2017

### Important Notice

This report has been prepared by Reposit Power Pty Ltd solely for the purpose of progressing the development of the Project and Reposit Power Pty Ltd makes no representations or warranties regarding merchantability, fitness for purpose or otherwise. Any third party relying on the report does so entirely at their own risk. Reposit Power Pty Ltd and all persons associated with it exclude all liability in relation to any opinion, advice or information contained in this Report, including, without limitation, any liability which is consequential to the use of such option, advice or information to the full extent of the law, including without limitation consequences arising as a result of action or inaction taken by that person or any third parties pursuant to reliance on the report.

# Contents

<b>Introduction</b> .....	<b>4</b>
<b>An Ambitious Goal</b> .....	<b>4</b>
<b>Reposit in Mid 2014</b> .....	<b>4</b>
<b>Learning How to Communicate – Acquiring Customers</b> .....	<b>4</b>
<b>Learning How to Partner with the Solar Industry</b> .....	<b>8</b>
<b>Improving the Reposit Box and Metering</b> .....	<b>10</b>
<b>Critical Breakthroughs Achieved in the Measure</b> .....	<b>12</b>
<b>Sharing the Knowledge</b> .....	<b>13</b>
Conference Presentations .....	13
Assisting Government and Industry Bodies .....	14
Self-Published Guides and Information .....	14
ARENA Published Reports .....	14
Data Sharing.....	14
Media Articles .....	15
<b>Overcoming Regulatory Barriers</b> .....	<b>15</b>
<b>Outcomes of the Measure</b> .....	<b>15</b>
Case Study 1 – Normal Operation .....	16
Case Study 2 – Low Solar Generation Day.....	17
Case Study 3 – FCAS GridCredits Event.....	18
Case Study 4 – Wholesale GridCredits Event.....	19
<b>Concluding Remarks</b> .....	<b>20</b>

# Introduction

In September 2014, Reposit set out to prove that electricity storage could be commercially viable in Australia's National Electricity Grid with the help of a \$445,666 grant from ARENA's Emerging Renewables Grant. At the commencement of the grant, the notion of Australian households participating in wholesale markets and being rewarded for doing so was unproven. Could batteries be cost effectively deployed in Australian households? If so, could these batteries play a useful role in assisting energy companies and networks to solve issues in the system? Would these companies be willing to reward consumers for services rendered?

At the time of writing, the market for batteries has exploded, and a good proportion of these batteries have been shipped with Reposit technology. This report summarises the work co-funded by ARENA and the resulting benefits for energy consumers.

Reposit would like to take the opportunity to thank ARENA, in particular those staff members that have overseen the project. The project has been pivotal in ensuring Australia leads the way in ensuring consumer-owned home energy systems play a positive role in a cleaner, fairer, cheaper and more exciting electricity system.

## An Ambitious Goal

Reposit's goal was (and is) to make sure consumers could access affordable smart home energy systems. These systems needed to be aware of conditions in the electricity system and be able to respond. Reposit was early to recognise that batteries were the missing component of an affordable renewably powered grid. Without storage buffering wind and solar, there was little hope of wholesale retirement of fossil fuel generators.

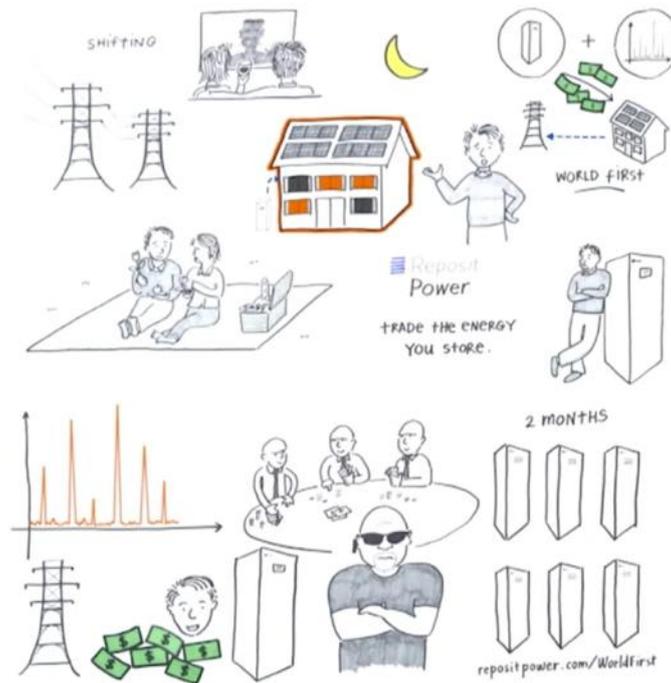
Reposit reasoned that, like solar, households would lead in the adoption of batteries. We therefore set out to prove that we could install small battery systems in real homes, and co-optimize these systems so that they lowered the customers' bills as much as possible, whilst simultaneously participating in a range of activities traditionally reserved for large entities; Network Support, Ancillary Service Provision, and Wholesale Market response.

## Reposit in Mid 2014

At the time, Reposit was a typical start up; a group of engineers borrowing space at the back of a charity shop in Canberra. But the company was led by experienced energy professionals with the vision to see that the electricity grid could be changed if consumers with batteries were empowered. Reposit had built much of its core technology and were ready to prove it would work in the field in real homes. This task was however enormously ambitious for a small engineering-led organisation with no experience in consumer engagement.

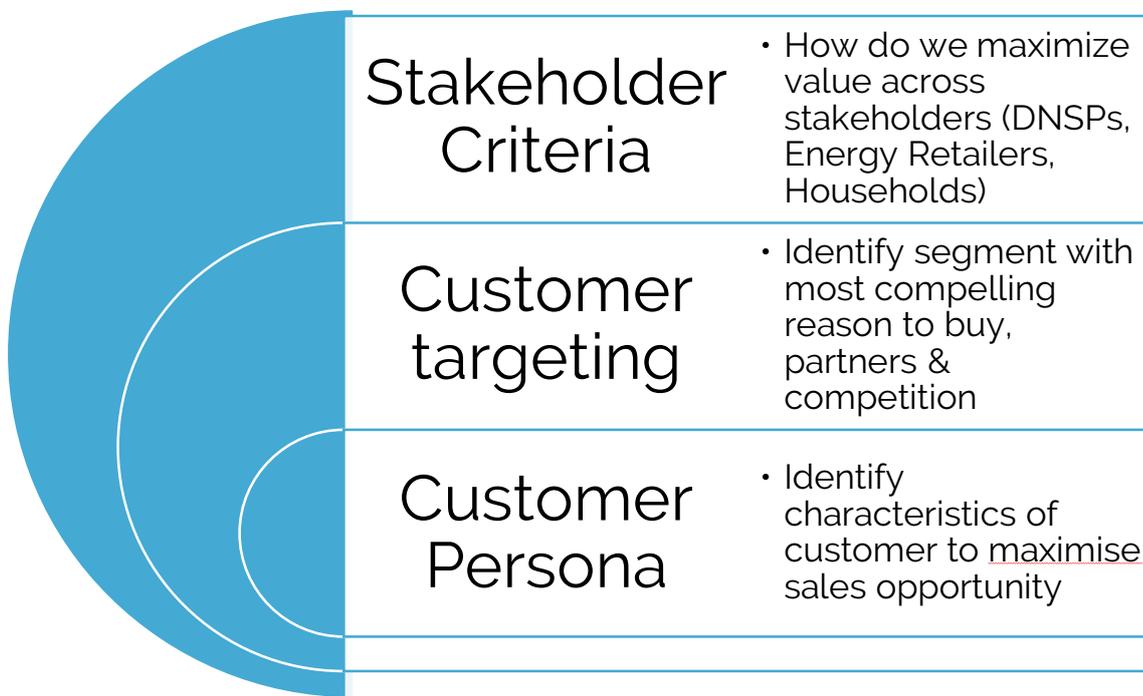
## Learning How to Communicate – Acquiring Customers

The first step was to acquire 4-6 customers willing to invest in the future. Reposit set out to sell Australian-built Magellan storage systems. Reposit recognised that setting itself the challenge of selling the systems was as important as proving the technical aspects. At the time, the basic value proposition of a battery was poorly understood, let alone a battery that could trade in electricity markets. Reposit commissioned a whiteboard animation to help promote the project.



The company then promoted the project via the media. Applications were received for the 4-6 batteries, along with hundreds of questions from the public. The challenge was to find ideal candidates from the applicants.

Reposit selected a range of customers who were willing to help the company develop its services. Reposit also deliberately chose to work with a diverse group of customers, in order to discover the value proposition and interests of as wide a range as possible. This was guided by a formal customer acquisition plan.



These wonderful early customers have proved great friends and ambassadors for Reposit, beyond just their financial contribution. For example, the Manning Family starred in an episode of the ABC Catalyst Program.



FIGURE 1 THE MANNING FAMILY FEATURED ON CATALYST

Shar Hinde has featured in several stories about Reposit and batteries, pictured here with her husband Ray.



FIGURE 2 RAY AND SHAR HINDE WITH MAGELLAN BATTERY

And our very first customers Dominic and Jane Osborne are special friends of Reposit, frequently appearing in the media. Jane, a communications specialist, donated much of her time to help promote the company and advise the executive team.

# Home solar battery revolution an economic and emissions game changer

David Ellery

SHARE TWEET MORE

- Countries strike grand deal to tackle climate change
- Heat turned up on Turnbull's climate policies
- Paris climate conference: full coverage

Bungendore's Jane and Dominic Osborne have said the rapid take-up of solar-power battery storage systems such as the one they installed almost a year ago will make it easier for Australia to meet emissions targets set under the [climate change agreement signed in Paris](#) on Saturday than many politicians expect.



Dominic and Jane Osborne with solar array and battery storage pack. Photo: Jay Cronan



60,000 bonus Qantas Points<sup>1</sup>

Apply now > HSBC

Credit provided by HSBC Bank Australia Limited  
ABN 48 006 434 162 AFSL/Australia Credit Licence 232595.

Advertisement

**HUFFPOST AUSTRALIA**

FIGURE 3 DOMINIC AND JANE OSBORNE

Customers were expected to contribute financially to the project. This added discipline to the project because the customer's expectations became paramount. This would not have been the case if the project had gifted equipment to the customers. The customers felt empowered to demand service levels and features due to their financial contribution. In very real ways this accelerated development and pushed Reposit to meet customer expectations.

# Learning How to Partner with the Solar Industry

Reposit used the project to learn how to work with the solar installation industry. We began by partnering with local Canberra firm Armada Solar, which installed several of the earlier systems. Unfortunately, Armada exited the industry before the roll out was complete, but much was learned about how the SME solar industry functioned and how to work with it. During the course of the project, Reposit built a national Partner Network. Today, these companies help sell the Reposit solution to customers alongside batteries and solar panels. Reposit would particularly like to thank Canberra's SolarHub, which has been a fantastic partner for Reposit.



FIGURE 4: REPOSIT'S ACCREDITED PARTNER NETWORK

The first installations required considerable effort. The semi-industrial storage at the time required crane trucks, bollards, concrete pads and several weeks to fully commission.

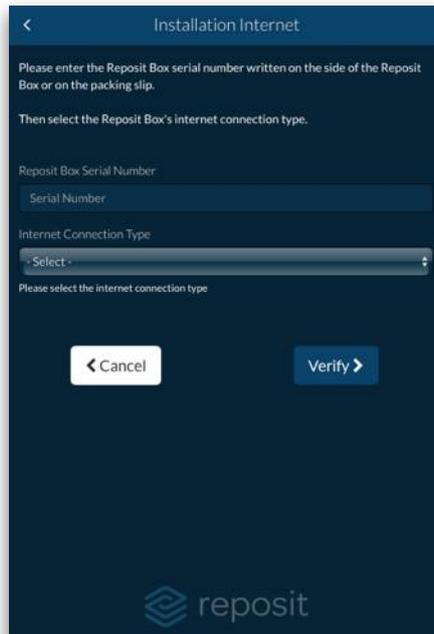


**FIGURE 5 FIRST ARENA FUNDED INSTALL**

Today, just 18 months later, the newest batteries are tiny by comparison and are readily wall or floor mounted.



**FIGURE 6 REPOSIT FOUNDER DEAN SPACCAVENTO**



---

**FIGURE 7 REPOSIT'S INSTALLER APP.**

Reposit's own commissioning processes have also come a long way, From the early days when our own staff would spend considerable time on site, up to today when trained installers commission systems using a dedicated installation application.

## Improving the Reposit Box and Metering

### Improvement of the Reposit Box

The original design of the Reposit box was housed within a bespoke aluminium casing. This casing included a plastic front cover which provided 'ambient' status indication via LEDs.



---

**FIGURE 8 FIRST GENERATION REPOSIT BOX**

During the initial rollout of the Reposit controller, it was identified that while the aluminium casing provided a robust housing, it was over-engineered, expensive and difficult to mount. This led to the development of a new design for the controller housing. This design featured an off-the-shelf plastic housing that was manufactured to be easily mounted to a DIN rail. This new design brought the marginal costs of manufacture of the controller down considerably, and as DIN rails are standard within electrical distribution boards across Australia, also ensured that the unit was easily mountable.



---

**FIGURE 9: REPOSIT'S SECOND GENERATION CONTROLLER**

Reposit also invested in the development of custom electronics inside the Reposit Box. This electronics platform allows the Reposit Box to communicate with a variety of batteries, meters and home automation devices. Several iterations of this were released during the Measure (ARENA Measure Number A00598).

#### **Development of the RP 115 Meter**

The monitoring and collection of electrical engineering data is essential for the the operation of Reposit's control system. Through the initial deployment of test systems, it was established early that off-the-shelf metering hardware was both size and cost prohibitive. This led to the development of Reposit's own line of single phase electricity engineering meter, the RP115. Pictured below, Reposit's RP115 is designed to specifically provide the Reposit controller all the data necessary to perform its optimisation and market trading capabilities. This meter is shipped with the Reposit Box.



---

**FIGURE 10: REPOSIT'S RP115 SINGLE PHASE ELECTRICITY METER**

# Critical Breakthroughs Achieved in the Measure

Below is a discussion of three critical breakthroughs for storage that this Measure has demonstrated. These highlights are the collection and dissemination of rich data, improved solar shifting and simultaneous delivery of multiple services from small demand-side storage units. Together, these breakthroughs mean that storage can now play a vital role in a renewably powered electricity system.

## High frequency data gathering, transmission and management

The gathering, transmission and management of large amounts of electricity usage and generation data is fundamental to Reposit's product. This information is used to integrate Reposit-controlled electricity storage into the grid, to help train predictive algorithms and to deliver a high quality and engaging end user experience.

To test this information's suitability for integrating residential storage into the grid, Reposit is offering this information, published in real-time, to grid participants to include in their grid management of renewables. This includes AEMO, Distribution Networks and Retailers. Reposit expects that where this information proves to be valuable to these parties, formal data exchange mechanisms will be put in place.

Reposit's predictive algorithms improve in performance as more data is gathered. This means that better operational decisions are made when working with variable load and generation. If the gathered information is of high quality, Reposit will be able to see a measurable improvement in the performance of its software. As part of the Measure, Reposit also installed controller-only devices in a number of households to learn from general energy consumption. This showed that Reposit systems could scale up with the expected growth in battery sales.

The Reposit user experience is driven by the information collected at the residence. This information provides the end user with a real-time understanding of their load, generation, storage readiness and market participation. High satisfaction with the user experience will be at least partially attributable to high quality data. This should be visible in a measurable improvement in user experience satisfaction as the technology demonstration proceeds.

## Optimised Solar Shifting

Reposit's software aims to deliver value through both optimally shifting solar generation in time, as well as earning revenue from Australian Energy Market Operator (AEMO) wholesale markets and distribution networks. Approximately 80% of the total value of electricity storage can come from effectively using it to avoid buying electricity from the grid at periods of high retail prices.

Delivering this full value is considerably more difficult than it may first seem. Optimal delivery can only occur if:

- Solar and load predictions are perfect throughout the day;
- Storage system control perfectly ramps to offset load and solar as it varies continuously throughout the day;
- The storage is managed to ensure that the physical limitations of the storage are perfectly managed; and
- All operations correctly take into account the retail tariff in operation at the residence.

Perfect is not possible, but it is knowable come the end of a day. Reposit is able to understand how effective its software is at optimising solar shifting when compared against the theoretically perfect control scheme. This allows Reposit to test and improve its solar shifting optimisation. Reposit will also benchmark its solar shifting against other systems to understand how it compares, and where improvement can be found.

## Simultaneous Delivery of Multiple Services Possible

A key part of Reposit's control system is the simultaneous delivery of multiple services from a single electricity storage system. Specifically, the services can be:

- Charging from solar and discharging back into the home

- Tariff arbitrage
- Wholesale electricity market trading.
- Ancillary market trading
- Demand management for the benefit of the local distribution network.

The latter three of these services earn the customer GridCredits. The evolution of Reposit's software over time has seen it create a very small electricity market for each storage system under control, where customers can trade their energy with their energy provider for GridCredits®. Third parties who wish to use the storage system for their own needs must successfully "bid" to have their needs met, this is called a GridCredit® event. Where their need is co-incident and compatible with another parties' need (for example when a Retailer and a Network both ask a battery to export energy), the price required to satisfy both needs will be lower. This co-optimisation seeks to deliver maximum economic value from a storage system at every moment in time.

Similar to solar shifting, it is possible to calculate the theoretical optimal decision stream for the day at the end of a day. This can then be compared with the actual decision stream for the day and difference in economic outcome calculated. This allows Reposit to test and improve its co-optimised control of the electricity storage.

Reposit has built a business model around this multi-purpose use of batteries which aims to deliver customers a low bill and earn them as many GridCredits® as possible. Each of the ARENA storage systems is independently owned by the end user. This means that the end user was able to sell the multiple services available from their storage system to their network and retailer. Reposit has successfully leveraged the Measure to negotiate numerous contracts for buyers of these 'stacked services'.

## Sharing the Knowledge

Reposit fully embraced its obligation to share the knowledge gained with the assistance of the Measure's funding. Listed below is a summary sharing methods.

### Conference Presentations.

Reposit made approximately 23 conference presentations during the measure. These presentations are generally made available publically by the conference organisers and include a very wide range of subjects concerning energy storage: including stacked services, prosumer needs, the rationale for market interactive storage, the role of incumbents in storage, business models, peer to peer trading, regulatory barriers, Measure results, skills required in the electrical trades.

1. City Disrupt 2016
2. ENA Conference 2016 (including booth)
3. Clean Energy Summit 2016
4. Energy Skills Qld 2016
5. ENA Conference 2016
6. Australian Energy Week 2016
7. Australian Storage Conference 2016
8. Energy Storage Conference 2016
9. 2016 Carbon Summit
10. Summer Study 2016
11. OEH Energy Efficiency Forum 2016
12. Energy Skills 2015
13. Australian Energy Storage Conference 2015

14. Australian Utility Week 2015
15. Disruption and Energy Conference 2015
16. All Energy 2015
17. E-Oz Skills 2015
18. Australia Institute 2015
19. ENA Energy Transformed 2015
20. Energy Storage Conference 2015
21. ACT Smart 2015
22. Clean Energy Summit 2015
23. Future Grid Forum 2014

## Assisting Government and Industry Bodies

Reposit has offered its expert knowledge to the following organisations (without charge). This input has been used in some important regulatory changes that have occurred during the measure including the unbundling of FCAS, the Five Minute market, network ring fencing etc.

- AEMO
- AER: Board Presentation 2015
- ENA
- AEMC: Strategic Priorities
- CSIRO
- ESC (Vic)
- CEC
- ARENA: Staff Presentation 2016

## Self-Published Guides and Information

Reposit has produced a number of blog articles as follows:

- [Three things you should know about electricity metering in Australia](#)
- [Four things to help you make the perfect battery choice.](#)
- [Four things household batteries can do](#)

## ARENA Published Reports

Reposit has produced a number of knowledge sharing reports for ARENA:

- Prosumer Needs
- Battery Feasibility Study
- Regulatory Barriers Investigation

## Data Sharing

Reposit has placed [data online](#) for non-commercial use.

## Media Articles

Reposit has featured in numerous media articles, a small subset listed here:

- ABC Catalyst <http://www.abc.net.au/catalyst/stories/4398364.htm>
- ABC <http://www.abc.net.au/news/2016-04-14/energy-minister-matthew-groom-to-front-senate-inquiry/7323852>
- CleanTechnica <https://cleantechnica.com/2016/04/27/lg-chem-tesla-reposit-panasonic-win-act-battery-storage-pilot-auction/>
- RenewEconomy <http://reneweconomy.com.au/tesla-panasonic-lg-chem-reposit-win-act-battery-storage-auction-70927/>
- ABC Radio Science Show <http://www.abc.net.au/radionational/programs/scienceshow/batteries-and-software-energise-renewables/7673166>
- Gizmodo <http://www.gizmodo.com.au/2016/04/new-act-government-program-gives-big-discounts-for-solar-power-storage/>

## Overcoming Regulatory Barriers

Reposit has not found Australia's regulatory system to be as onerous or as unfriendly to new entrants as many would claim. The company has been careful to follow regulation and the National Electricity Rules. The Rules do encourage demand side aggregation businesses to either obtain a retail authorisation, or to work with companies that possess such an authorisation. Reposit has selected the latter path, and now provides existing and new entrant retailers a platform for the provision of innovated services to prosumers (producers and consumers).

During the Measure, Reposit was frequently engaged with the Australian Energy Regulator (AER), AEMO and the Australian Energy Market Commission (AEMC). Reposit believes that each of these entities has been proactive in seeking to understand the burgeoning storage market and its implications, both positive and negative, for our electricity system.

Two rule changes have been of particular interest to Reposit during the Measure; Five Minute Settlement, and the unbundling of FCAS (Frequency Control Ancillary Market). Whilst neither would be classified as 'barriers', they are potentially good for Reposit's customers. The former properly rewards fast ramping power stations, such as batteries, for services provided. The latter may allow FCAS revenues to be accessed more easily.

Reposit does believe that Australia may waste an important opportunity for world leadership if it chooses to over-regulate. There are several concerning regulatory trends, including:

- A. Competing installation guidelines from rival industry groups;
- B. These guidelines in some instances being overly restrictive, such as requiring storage units to be placed in a cage; and
- C. Calls for registers of batteries. This is a requirement that would only make sense from a market perspective if the batteries were not market interactive. A better use of resources would be to examine ways of ensuring that all batteries carried software that allowed them to be network and market interactive.

## Outcomes of the Measure

Reposit is now positioned at the forefront of a new category of distributed energy management systems. This is the result of Reposit's devoted staff, investors, customers and the very important support offered by the ARENA Measure.

Reposit successfully deployed five full home energy systems, comprising solar, storage and Reposit's technology. These customers were able to make significant savings on electricity bills, with one customer saving up to \$3,000 per annum on their electricity bills. These savings were through a combination of solar (for those that did not have it before the trial commenced), solar-charging of the battery, smart-charging of the battery at off peak times, through market operations and through behavioural change.

Reposit also successfully deployed 12 Reposit Boxes. These were intended to collect data and demonstrate that Reposit's IT systems could handle larger volumes without the need to deploy storage, which at the time of

establishing the Measure was very expensive. These boxes continue to collect data which has been made available to the research community at [repositpower.com/ARENA](http://repositpower.com/ARENA).

Below are some case studies from the Measure that demonstrate the power of the GridCredits® platform.

## Case Study 1 – Normal Operation

Case Study 1 examines the behaviour of the Reposit system under normal operating conditions on a typically sunny day with no GridCredits events. Under these conditions, the system will attempt to maximize the self-consumption of cheap solar energy generated onsite by storing any superfluous energy from solar during the day, then discharge the battery to service the house load during the evening peak.

Figure 4 below illustrates this behavior, with the battery discharging throughout the morning, servicing the base load of the house. The following points in the figure below describe this behaviour in more detail:

1. As the house load spikes, the battery discharges at maximum inverter power to service this load.
2. However, the power being drawn by the house exceeds the maximum rating of the inverter, and so not all of the load is serviced.
3. As the solar starts to generate, the house load is zeroed and the battery begins to capture excess energy until it reaches 100% state of charge. Once the solar ceases generating, the battery services the house load for the remainder of the day.



FIGURE 4: BEHAVIOUR OF THE REPOSIT SYSTEM FOR A NORMAL, SUNNNY DAY WITH NO GRIDCREDITS EVENTS

## Case Study 2 – Low Solar Generation Day

Case Study 2 examines the behaviour of the Reposit system during a day where it was forecast there would be little solar generation available. During this period there were no GridCredits events. Under these conditions, the system will attempt to pre-charge the battery with enough cheap off-peak grid energy to offset the predicted load during the expensive peak period.

Figure 5 below illustrates the system pre-charging with cheap off-peak energy overnight when the following day is forecast for low solar generation conditions. This figure also nicely illustrates how the system continues to perform continuous optimisation calculations. By executing twin peak charge/discharge behaviour as new forecast data became available, the system was able to deliver additional benefits to the owner by utilising over 100% of the battery storage capacity in one 24-hour period. The points below describe this behaviour in more detail:

1. The system pre-charges overnight to ensure energy is stored to meet the daily peak usage.
2. At this point, based upon new solar forecast data and its load predictions for the day, the system determines that it has enough energy available to service the spike in load, as shown at point 2, while still having enough solar generation to again charge prior to the afternoon peak.
3. The system starts to discharge the battery to service the spike in load.
4. The spike in usage ends and solar generation starts. The system begins to charge the battery again to service the afternoon peak.
5. Solar generation tails off and the afternoon/evening peak house load commences. The system begins to discharge the battery to meet this load.
6. Due to limitations in the power output capability of the inverter, not all of the household usage is offset, and a small amount of grid energy is imported.



FIGURE 5: BEHAVIOUR OF THE REPOSIT SYSTEM ON A CLOUDY DAY WITH NO GRIDCREDITS EVENTS

### Case Study 3 – FCAS GridCredits Event

Case Study 3 examines the behaviour of the Reposit system during a day in which there was an FCAS triggered GridCredits event. While the behaviour of the system over the majority of the day is explained by Case Studies 1 and 2, during an FCAS GridCredits event the system will begin to export energy to the grid, regardless of the optimisation leading up to that event.

Figure 6 below illustrates the behaviour of the system when an FCAS trigger occurs. For the majority of the day, the optimisation engine was executing normal arbitrage of customer's energy, i.e. charging from off-peak grid and excess solar to service the house load during the peak period. However, as indicated by the callout boxes within Figure 6, at 11:00am an FCAS price trigger was received. During this time, the system discharged the battery back into the grid at 2.2kW.

Figure 6 shows this FCAS trigger in greater detail via Reposit's mobile application. The mobile application makes it easy for the user to pinch-to-zoom into any part of their daily system graphs to view information in finer detail.

In this example, it shows that at approximately 11:00am the system began to dispatch energy for approximately 10 minutes. At this point, the FCAS event ended and the system continued to optimise arbitrage of the customer's energy as usual.

For this event the customer will earn GridCredits® in accordance with their retail agreement.



FIGURE 6: ZOOM SHOWING FCAS TRIGGER

## Case Study 4 – Wholesale GridCredits Event

Case Study 4 examines the behaviour of the Reposit system during a wholesale GridCredits event. Similar to Case Study 3, while the behaviour of the system over the majority of the day is explained by Case Studies 1 and 2, during a wholesale GridCredits event the system will begin to export energy to the grid, regardless of the optimisation leading up to that event.

Figure 7 below illustrates the behaviour of the system when a wholesale market trigger occurs. Once the trigger occurs, the system will begin to export energy into the grid at the maximum rate allowed by the battery inverter for the duration of the event. This duration is determined by the price of energy on the wholesale market, and how long it remains economically advantageous for the system to sell energy back to the grid rather than self-consume. The following points describe this behaviour in more detail:

- 1) The callout boxes show the system exporting 2.78kW of energy to the grid at 4:30pm. During this time the house load was 0.47kW.
- 2) When the GridCredits event ends, the system begins to re-optimize and service the evening house load, drawing a small amount of grid energy to support the house load.
- 3) The self-consumption circle turns gold to indicate to the user a wholesale GridCredits event has occurred that day.

For this event the customer will earn GridCredits® in accordance with their retail agreement.

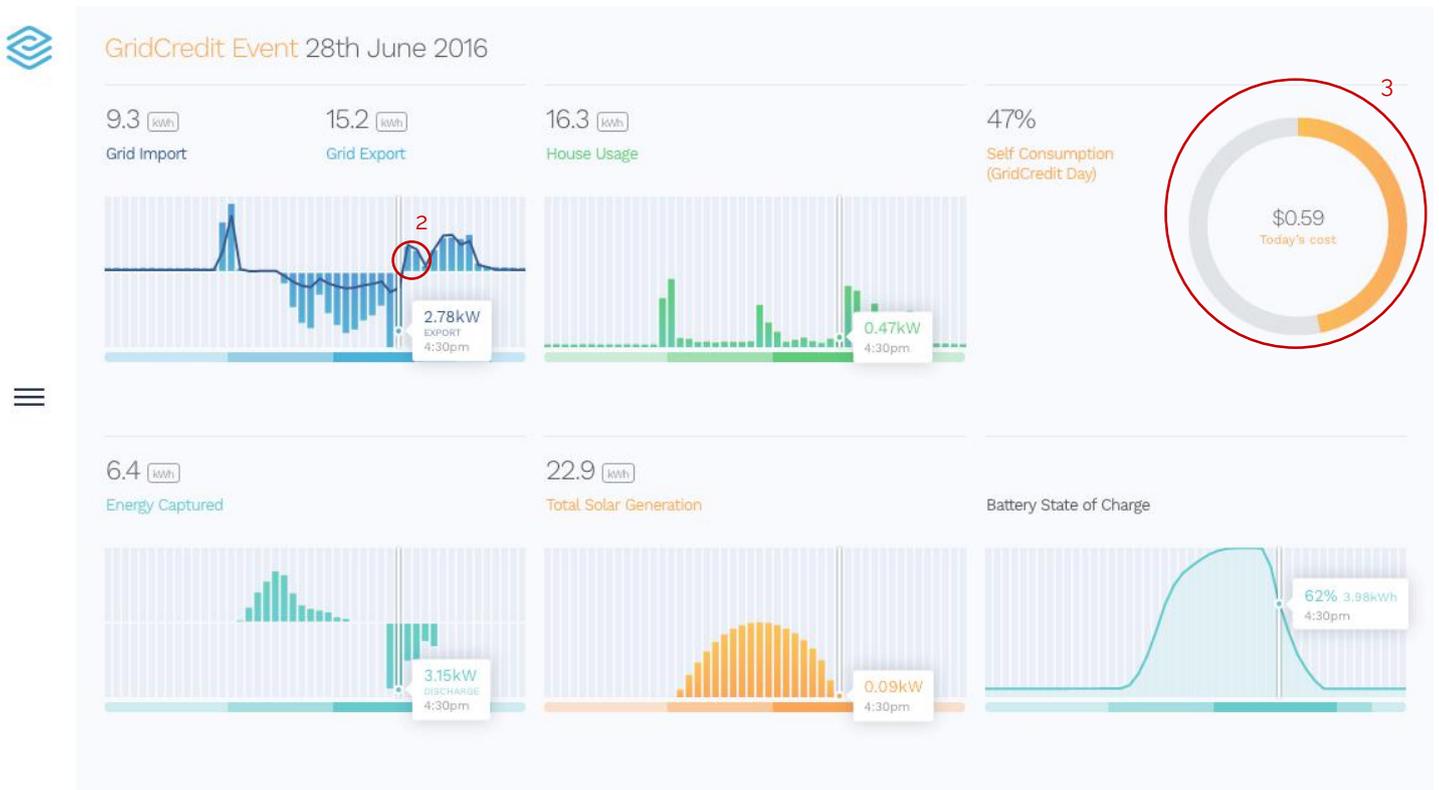


FIGURE 7: BEHAVIOUR OF THE REPOSIT SYSTEM DURING A GRIDCREDITS EVENT

# Concluding Remarks

Reposit was able to deliver on all objectives in the Measure. Reposit would like to take the opportunity to thank both ARENA and generous customers who participated in this measure. It has been a great project! Reposit would also like to thank its private investors who co-funded the Measure alongside ARENA.

Both during the Measure and in the months since it concluded, Reposit has implemented the learnings gained to offer its services to consumers across the NEM. Reposit has partnered with a number of network organisations and retailers. And an increasing number of consumers choose Reposit when they buy their home energy systems.

It is difficult to say if Reposit would have been able to achieve this without ARENA's assistance. However, it is clear that the Measure was well-designed and well-timed. For a very small sum by ARENA's standards, the Measure delivered enormous value to Reposit, Australian energy consumers, the environment, and (via the knowledge sharing) to the burgeoning storage industry.