



South Australia's Home Battery Scheme

Delivering more affordable, reliable,
energy to South Australian households.

www.energymining.sa.gov.au/hbs



Industry information session

Friday, 28 September 2018

Speakers:

**Sam Crafter, Executive Director, Energy Implementation
Department for Energy and Mining**

Ben McGarry, Associate Energy, Aurecon

**Andrew Jones, Head of Commercial Development, RateSetter
Australia**

Udhara Weerasinghe, Clean Energy Council

**Ian Nightingale, Industry Advocate, Office of the Industry
Advocate**

Panel Session for Q&A will also include:

**Bryn Williams, Future Network Strategy Manager, SA Power
Networks**



South Australia's Home Battery Scheme

An overview

- Deliver home battery systems to 40,000 South Australian households
- \$100 million in State Government subsidies
- \$100 million in CEFC financing to provide loans for solar and battery
- Starting October 2018



www.energymining.sa.gov.au



Government of South Australia
Department for Energy and Mining

South Australia's Home Battery Scheme

Objectives

- Directly reduce power prices for 40,000 households
- Reduce demand on the network especially during peak periods
- In turn lower power prices for all South Australians



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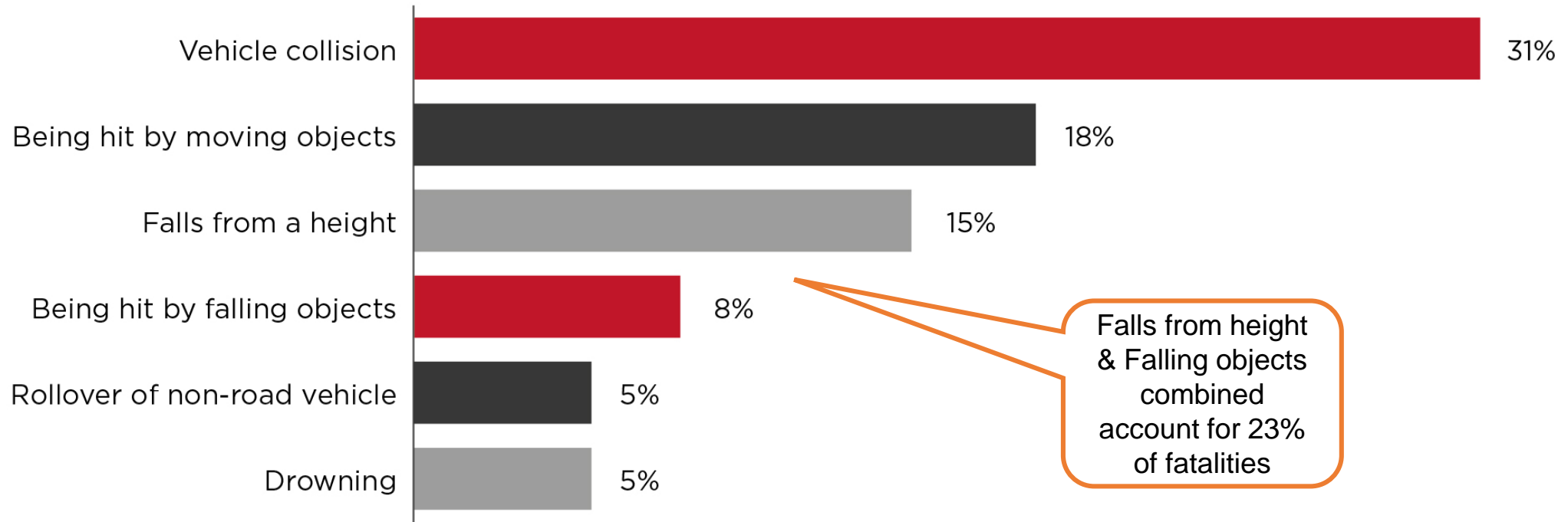


Government of South Australia
Department for Energy and Mining

Safety Leadership

- **Safe delivery of the Home Battery Scheme is a non negotiable objective for the State**
- **The State is committed to working with key stakeholders to achieve leading practice safety outcomes for installers, customers and the community**

Work Fatalities in Australia – 2017



Source: Safework Australia 2018

www.energymining.sa.gov.au



Government of South Australia
Department for Energy and Mining

Critical Safety Risks

What are the Critical Safety Risks for the installation phase of the Home Battery Scheme?

- Falling from roofs while installing solar roof panels is a risk
- Contact with live electrical wiring or components during installation or commissioning a risk

If these risks are not effectively controlled someone could be seriously injured or worse

System Providers – Safety Requirements

- All installers must be CEC accredited
- System Providers must agree to key safety control measures
- Unannounced safety compliance inspections will be conducted during installation
- Inspection frequency is based on risk and past performance
- Inspection results will be reported to the CEC
- Department for Energy & Mining reserves the right to suspend System Providers from the scheme

South Australia's Home Battery Scheme

Who is eligible to receive the subsidy?

- Anyone who owns or occupies a home in South Australia (includes renters who have permission from the property owner)
- SA Energy Concession Holders to receive a higher subsidy
- One subsidy per home (NMI)

South Australia's Home Battery Scheme

How much is the subsidy?

- Scaled in line with the size of the battery – the bigger the battery the bigger the subsidy
- Capped at \$6000 per system installed
- Subsidy and cap to reduce over time to ensure 40,000 households can participate.

Energy Concession Holder	Other households
\$600.00 per kilowatt hour (kWh)	\$500.00 per kilowatt hour (kWh)

South Australia's Home Battery Scheme

Subsidy applied to products in the market

System Description	Storage Capacity (kWh)	Indicative Cost (ex GST)	Non-concession holder		Concession holder	
			Subsidy (non-concession \$500/kWh)	Post-subsidy Indicative Cost (ex GST)	Subsidy (concession holder, \$600/kWh)	Post-subsidy Indicative Cost (ex GST)
Large battery	13.5	\$11,500	-\$6,000	\$5,500	-\$6,000	\$5,500
Medium battery	8	\$13,000	-\$4,000	\$9,000	-\$4,800	\$8,200
Small battery	4.3	\$8,500	-\$2,150	\$6,350	-\$2,580	\$5,920

South Australia's Home Battery Scheme

What does this mean for households?

- Households looking to purchase a large battery providing 10kWh storage could receive a \$5000 subsidy, or \$6000 for concession holders.
- A smaller battery with 5kWh of storage per household could receive a \$2500 subsidy, or \$3000 for concession holders.
- Households could be looking at a payback period of around 6 years and saving thousands on energy bills over the life of the battery.

South Australia's Home Battery Scheme

How will households access the Scheme?

A dedicated website (joint SA Government and RateSetter Platform) will be available in October to help households:

- consider their suitability
- identify qualified system providers and eligible systems
- access the subsidy and finance (if required) through RateSetter

www.energymining.sa.gov.au



Government of South Australia
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South Australia's Home Battery Scheme

What finance is available?

- In addition to the subsidy, households will be able to access finance to assist with the upfront cost of paying for the battery and new solar if required.
- Competitive Loans through the RateSetter Platform funded by an initial investment of \$100 million from Clean Energy Finance Corporation.
- Households will be able to choose the amount they borrow.
- We expect the term of the loan to be between 3 to 7 years to ensure households achieve the greatest benefit from the system.

South Australia's Home Battery Scheme

What products will be available?

- System Providers must provide a battery system that meets the equipment eligibility criteria
- Priority will be given in the first nine weeks of the Scheme to batteries that are manufactured or assembled in South Australia

South Australia's Home Battery Scheme

What products will be eligible?

Eligible Equipment criteria have been developed to ensure the batteries are:

- **Safe** (avoid damage, death and serious injury),
- **Reliable** (quality installation of products and after service support)
- **Virtual power plant** (VPP) capable (power security on network, bring loads down in peak times, bring costs of power down)

Supporting documents will be uploaded to the HBS website

South Australia's Home Battery Scheme

How can you be involved?

- To supply and install eligible home battery systems under the Scheme, businesses will be required to first qualify as a 'System Provider.'
- System Providers will be required to be the single interface for customers through the supply and install of the battery system.
- If you have registered your interest on the Home Battery Scheme website you will receive notification when the System Provider and Eligible Equipment application process is open, expected next week.

*Bringing ideas
to life*

**SA Government
Home Battery Scheme
(HBS)**

**Equipment Eligibility Criteria –
Overview Presentation**

**Ben McGarry,
Future Energy**
27 September 2018

Overview

- HBS-compliant battery systems **could take a number of configurations**, provided the installed system meets the requirements under the scheme.
- The ‘battery system’, for the purpose of the scheme, is **the collection of equipment that has been pre-approved for each System Provider and achieves the HBS requirements**, and will likely include a number of discrete components, among them:
 - battery module(s)
 - battery inverter
 - hybrid inverter
 - current sensor
 - smart controller / meter
- In many cases, products are available that combine the discrete components in this list. The intent of the scheme is to **avoid prescribing combinations or configurations, but rather**
 - i) set **functional requirements** that must be met by the installed system, and
 - ii) invite **System Providers to propose combinations/configurations** of specific products for approval under the scheme.
- This document outlines the **functional requirements** then explores a **range of potential configurations** and most likely component types that would be installed to meet the system requirements. It is not intended to be exhaustive.



A 'VPP capable' system:

- includes communications and control functions that extend beyond basic battery system functions, and may include additional components
- need not be connected or registered in an existing VPP, but will be capable of registering to a VPP (now or in the future) with minimal or no additional hardware
- once registered to a VPP, will be able to respond to remote commands, allowing the battery to be deployed as part of a coordinated fleet of residential storage systems that can earn money by providing energy and grid services.

Minimum technical specifications have been developed to ensure the batteries are safe, reliable and capable of being recruited into a virtual power plant.

Equipment Eligibility (1/3)

Category	Requirement
1.1 Electrical interface	Battery systems may be AC- or DC-coupled.
1.2 Physical communications interface	<p>The battery system shall include an ethernet port that is capable of being used for communication with the system by authorised parties.</p> <p>It is not a requirement that the ethernet port is used in the installed system.</p>
1.3 Internet accessibility	<p>The system shall be provisioned with at least one means for forming a reliable internet connection accessible by authorised parties (examples include a 4G/5G modem, Wifi connectivity to a homeowner-provided internet-connected LAN, or hardwired ethernet connection to a homeowner-provided internet-connected LAN).</p> <p>The means for forming a reliable internet connection need not be the wired ethernet port.</p>
1.4 Remote registration	The system shall support registration of the system via API to remote services (e.g. retailer, OEM, aggregator).
1.5 Remote monitoring	<p>System shall include a communication function that supports remote monitoring and reporting of system state at 5-minute intervals via an API, with measured/reported parameters to include:</p> <ul style="list-style-type: none">• Battery SOC• Battery real and reactive power• Connection point voltage

Equipment Eligibility (2/3)

Category	Requirement
1.6 Remote control	<p>System shall respond to remotely-provided commands from authorised parties to:</p> <ul style="list-style-type: none">• Charge battery• Discharge battery• Perform the mandatory Demand Response Modes required under AS/NZS 4755.3.5: DRM 0 (<i>open the disconnection device</i>), DRM 1 (<i>do not import energy</i>), DRM 5 (<i>do not export energy</i>). <p>In addition, for a site on which both the battery and solar systems are new installations ('greenfield'), or for a site using a hybrid inverter, the system shall respond to remotely-provided commands to:</p> <ul style="list-style-type: none">• Dynamically maintain site net power output below or equal to specified export limits that may be required from time to time.
1.7 Remote configuration	<p>System supports remote changes to firmware and operational settings by authorised parties.</p>
1.8 Product performance and safety	<p>Inverters shall comply with <i>AS/NZS 4777.2-2015 Grid connection of energy systems via inverters – Inverter requirements</i> and shall be listed on the <i>CEC Approved Inverter List</i>.</p> <p>Batteries shall comply with the Battery Safety Guide (<i>Best Practice Guide: Battery Storage Equipment – Electrical Safety Requirements, Version 1.0, Published 06 July 2018</i>) and shall be listed on the <i>CEC Approved Battery List</i> (under development). Refer to http://www.batterysafetyguide.com.au/ for more information.</p>

Equipment Eligibility (3/3)

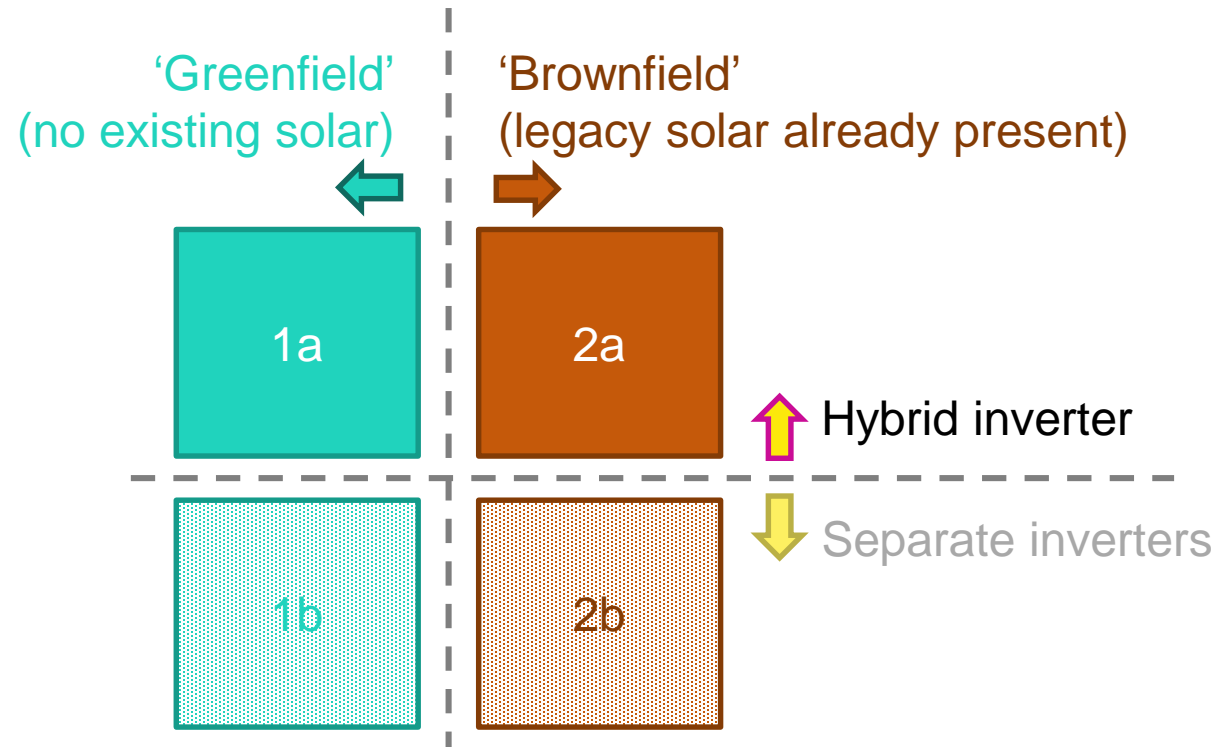
Category	Requirement
1.9 Security	System shall be designed such that it is protected to a suitable standard against electronic intrusion and tampering by unauthorised parties.
1.10 Warranty	<p>System shall be provided with a warranty providing, at a minimum, the following coverage:</p> <p>Battery Energy Storage System (BESS) or Battery System (BS): 7 years under daily cycling operation</p> <p>Any Inverter: 5 years</p> <p>Balance of system (e.g. enclosures): 5 years</p> <p>Workmanship: 5 years</p> <p>Whole of system: 5 years</p>

Assessing System Eligibility

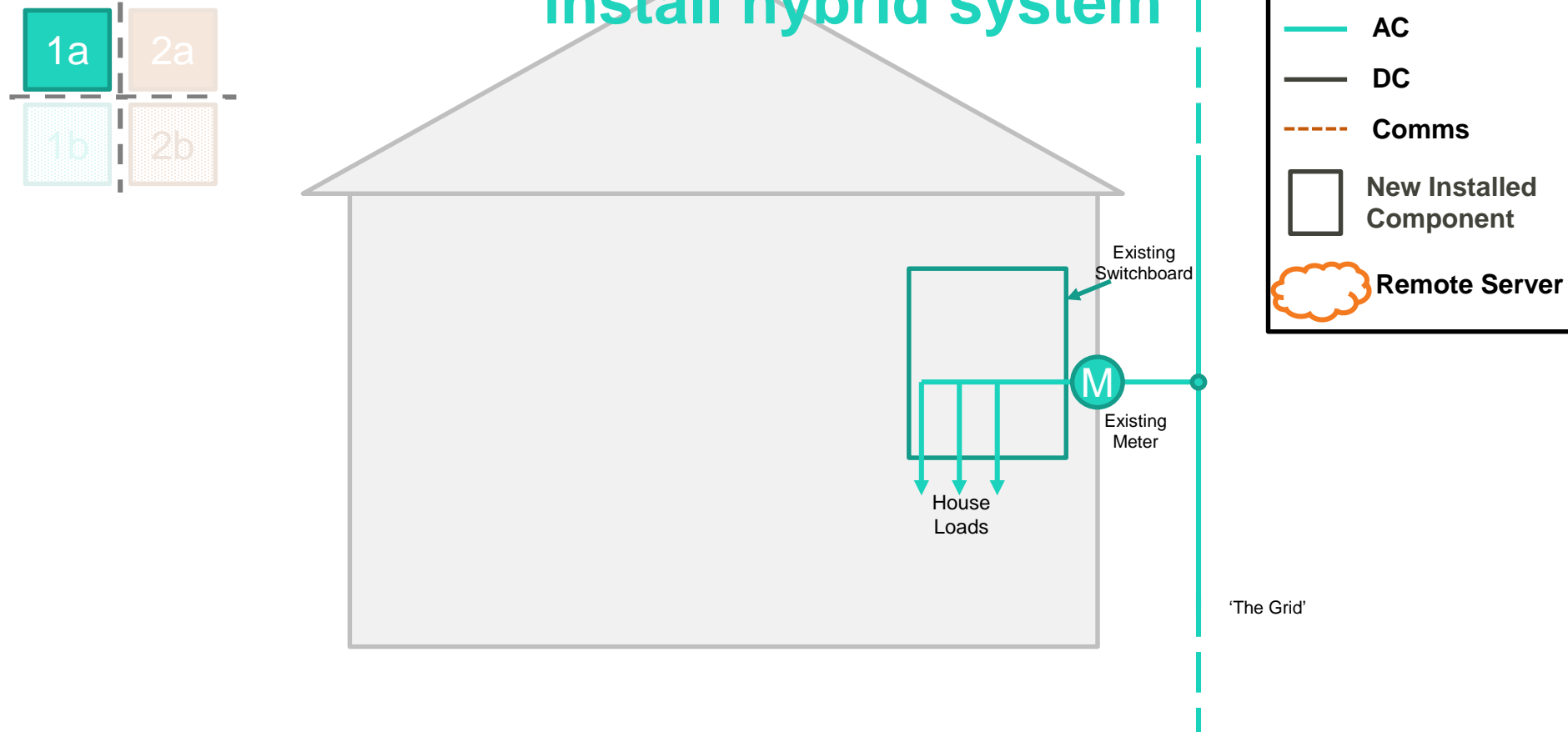
- Companies intending to be System Providers submit an application for each configuration they'd like to have approved for them to supply under the scheme.
- The application process will require the System Provider to submit information in a structured format demonstrating **how their proposed combination of equipment will (as a system) meet the Equipment Eligibility Criteria.**
- Information will need to include a major component list **fully identifying the manufacturer, model, and version** of all components, and a statement or manufacturer's information for each major component demonstrating **compatibility of the products.**
- Some criteria will be able to be addressed simply by providing an OEM data sheets, but for most eligibility criteria, providing a data sheet alone will not provide enough information, and **a written description or explanation will be required.**

Configuration options

- There are a **range of potential configurations** and most likely component types that would be installed to meet the HBS system requirements.
- The following examples are not intended to be exhaustive.
- Generally, four over-arching configurations are likely, depending on the answers to two questions:
 - Is a solar system **already installed** at the household? (greenfield vs brownfield) and
 - **Is a single hybrid inverter used**, or are separate solar and battery inverters used?

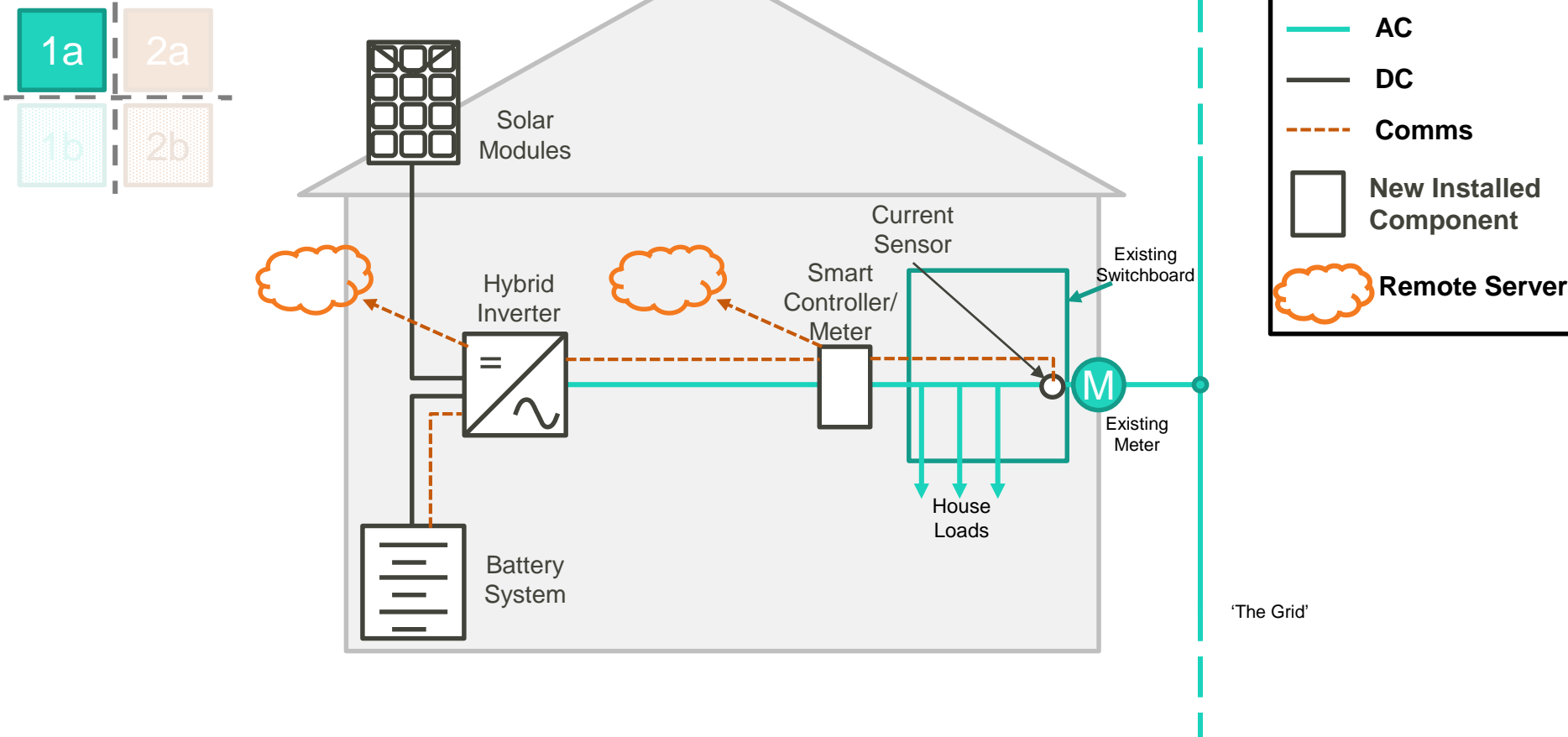


Scenario 1a: 'Greenfield' household, install hybrid system



- Pre-install state of the property is shown – no solar is present on the property

Example configuration only - many variations possible

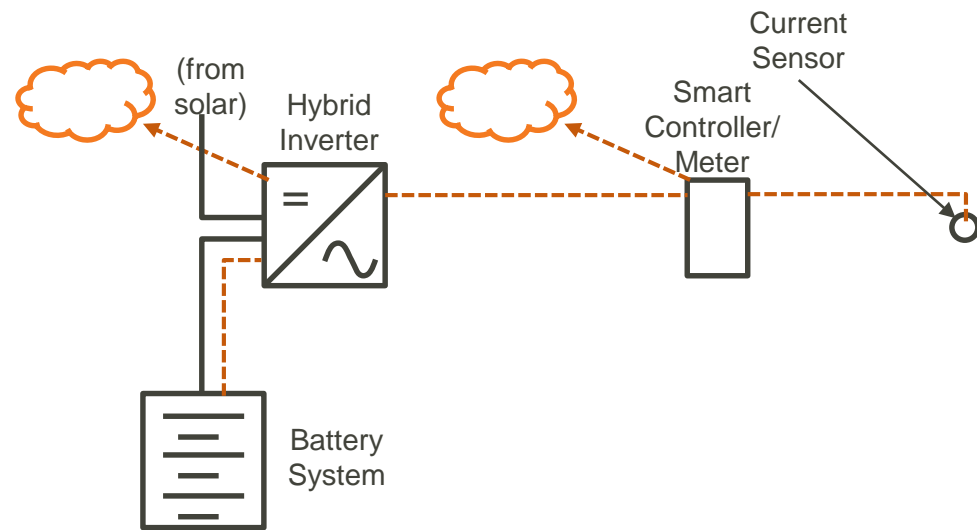


- Assume a ‘greenfield’ installation is more likely to include solar than not, and in this scenario uses a hybrid inverter
- Major components typically expected to be installed are shown in blue
- Solar modules are not part of the “battery system” for HBS purposes, but would be concurrently installed as part of the installation

Example configuration only - many variations possible

Sidebar: Component descriptions

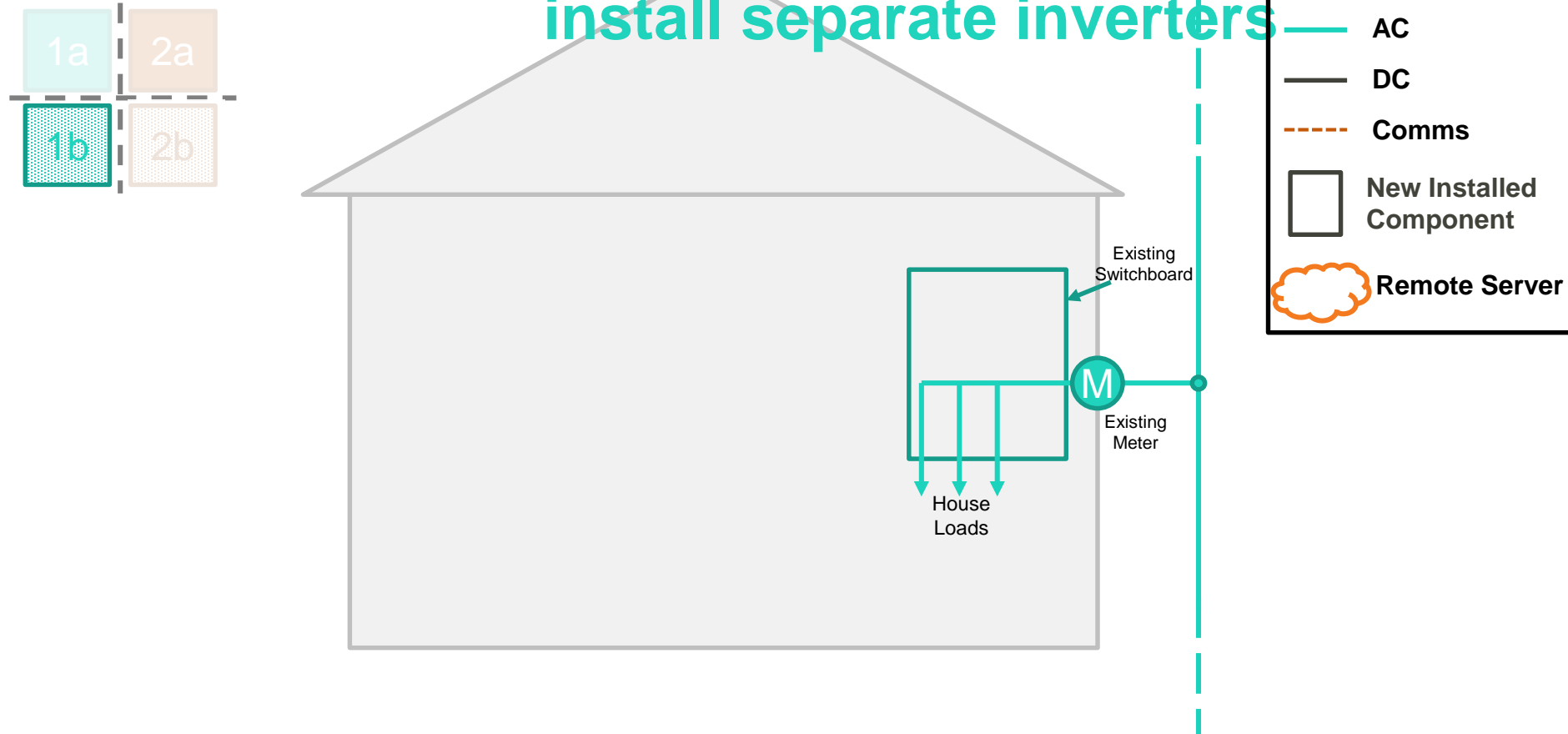
The 'battery system'
for HBS purposes



Legend

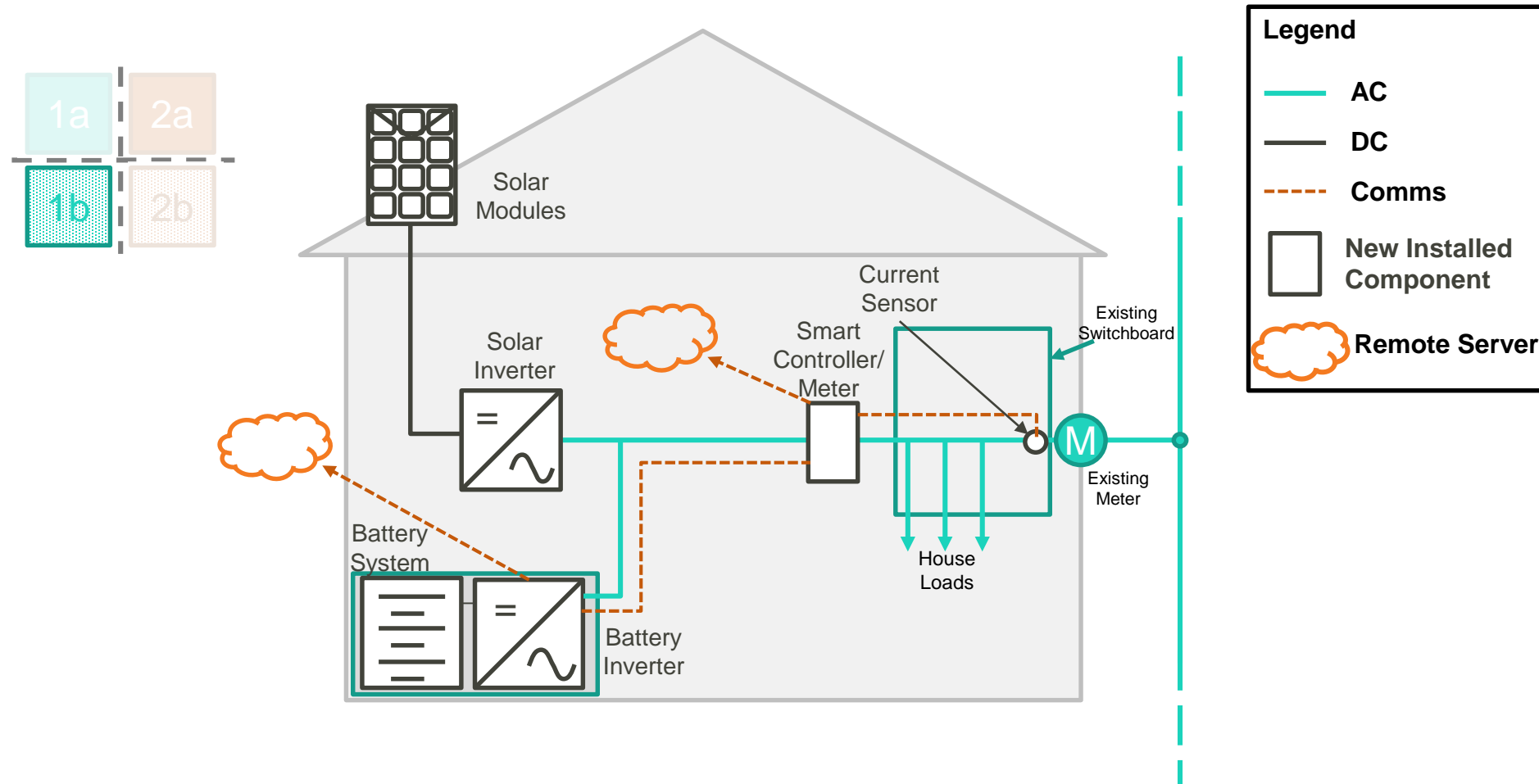
- AC
- DC
- - - Comms
- New Installed Component
- ☁ Remote Server

Scenario 1b: 'Greenfield' household, install separate inverters



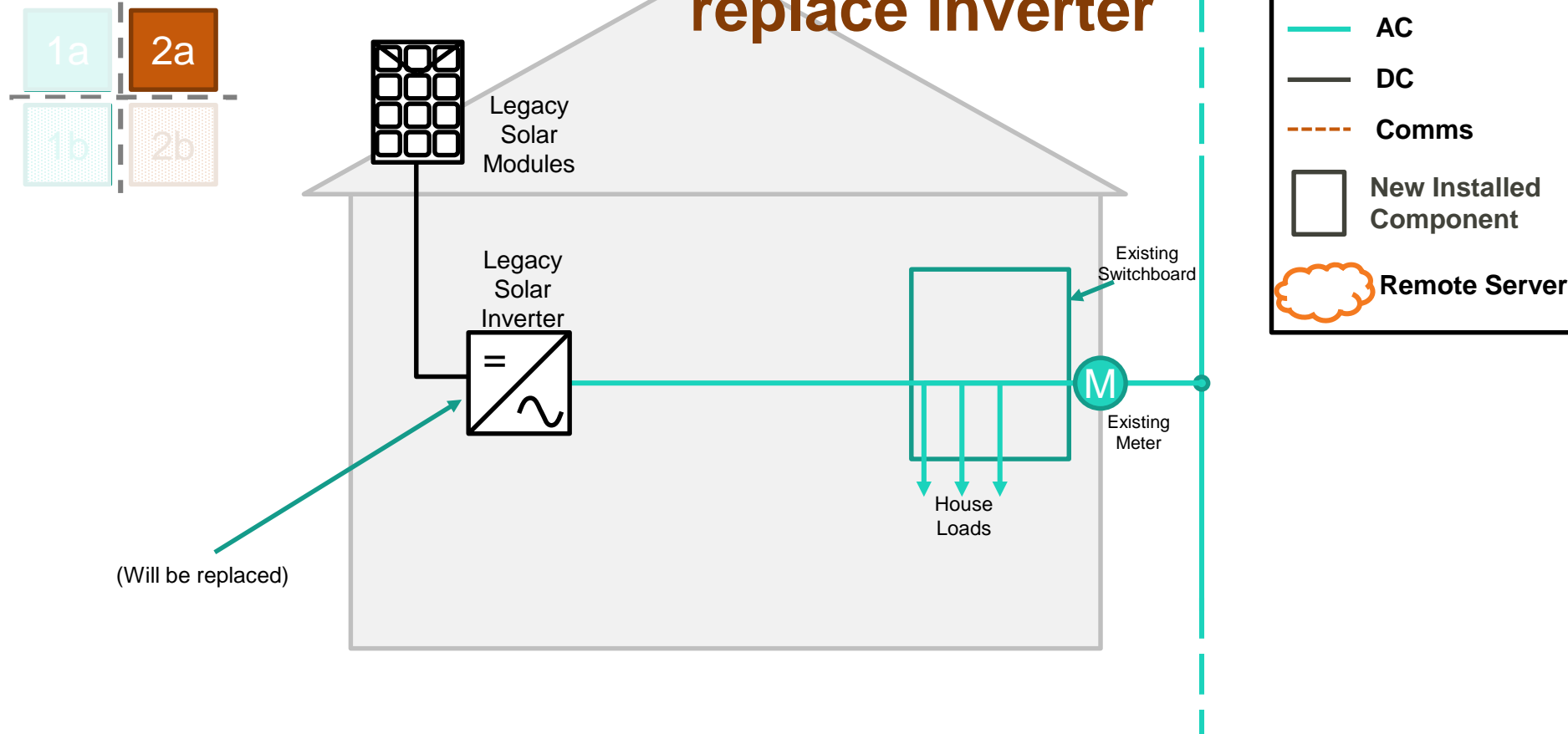
- Pre-install state of the property is shown – no solar is present on the property

Example configuration only - many variations possible



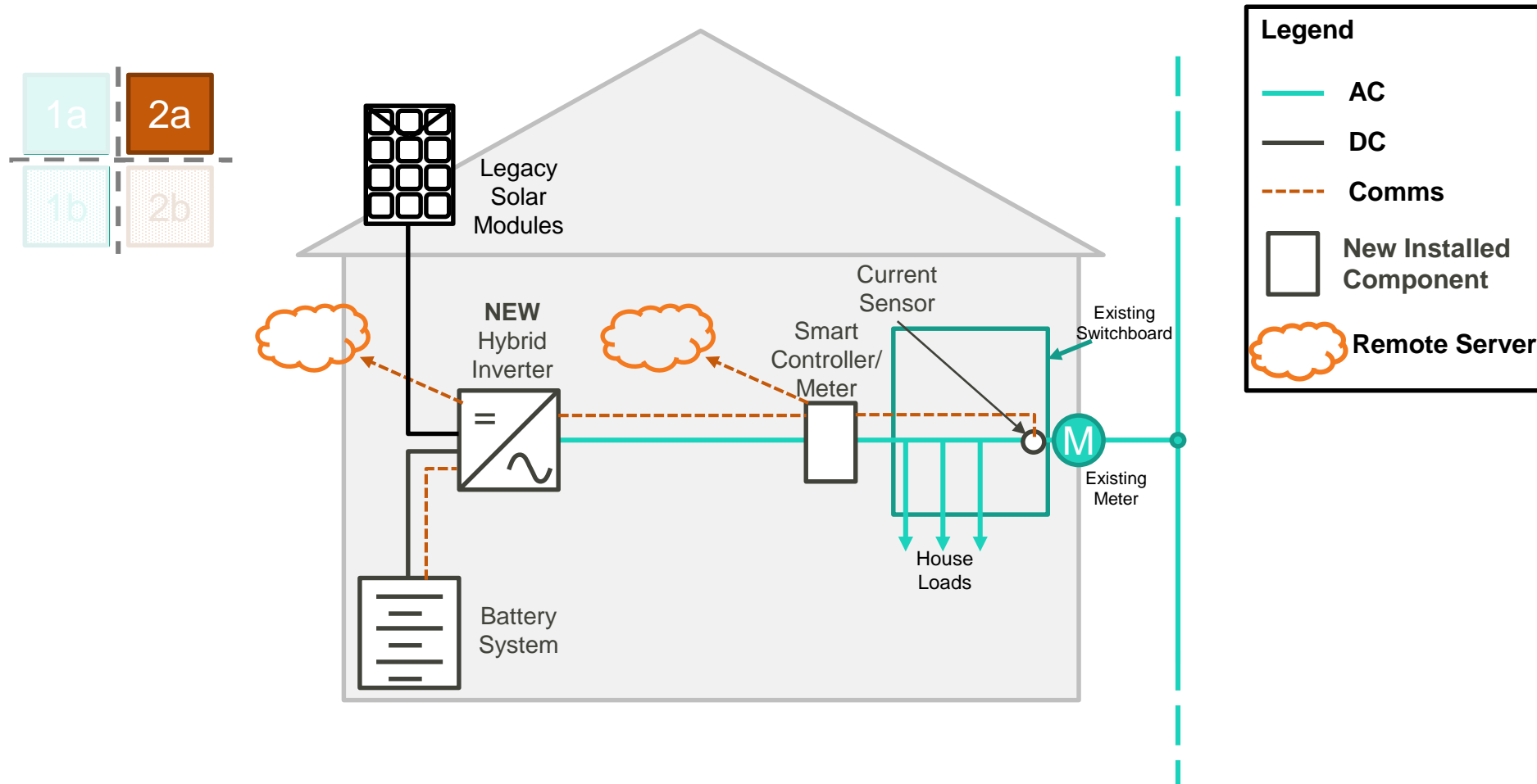
- System installed includes new solar modules, connected to a new standalone solar inverter
- A separate AC-coupled battery inverter and battery system are also installed
- This configuration is expected to be likely in cases where the battery product is a self-contained integrated product combining inverter and battery modules (shown via shading)
- Battery inverter and battery system may instead be separate products

Scenario 2a: 'Legacy solar' household, replace inverter



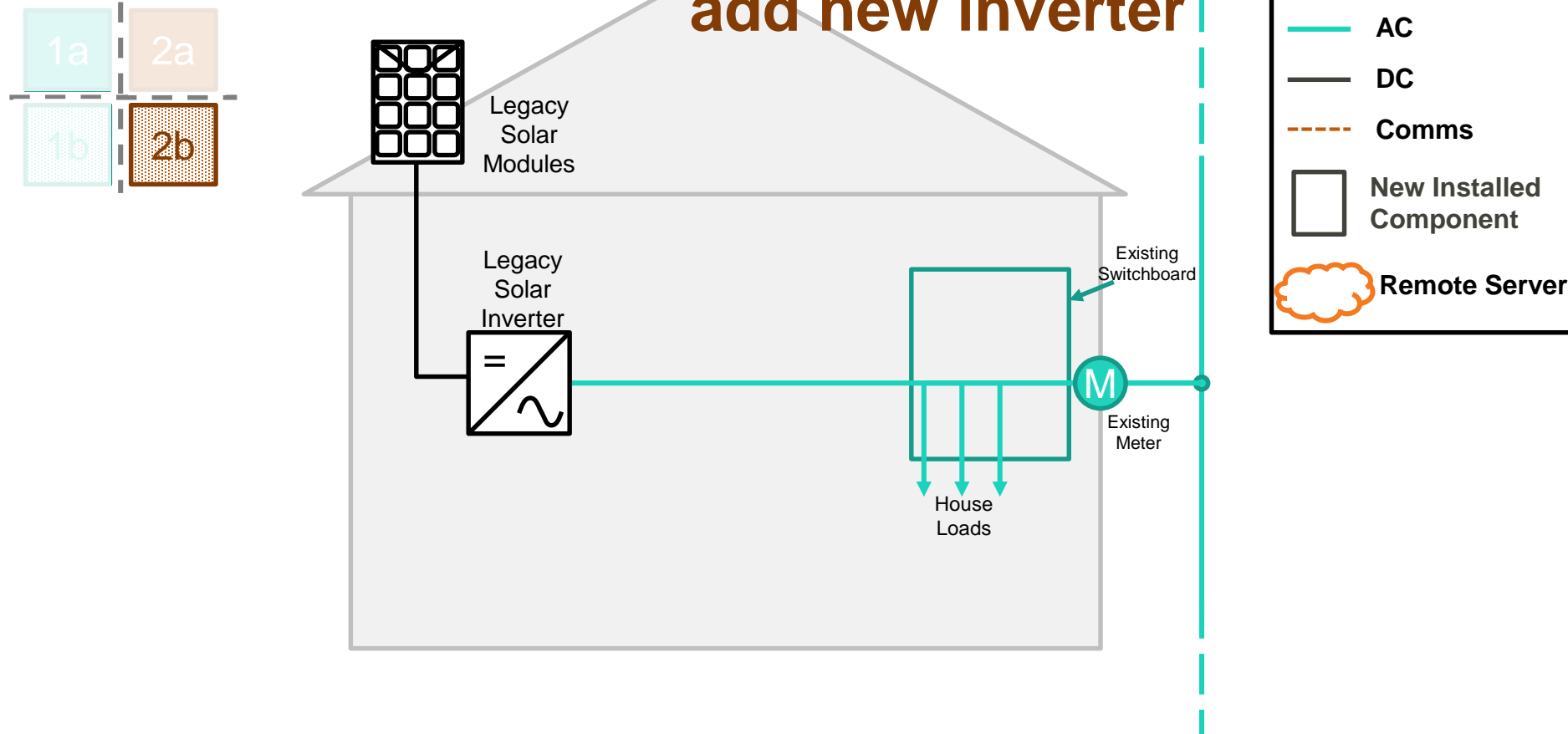
- Pre-install state of the property is shown – legacy solar modules and legacy solar inverter are present on the property
- Legacy solar inverter will be replaced

Example configuration only - many variations possible



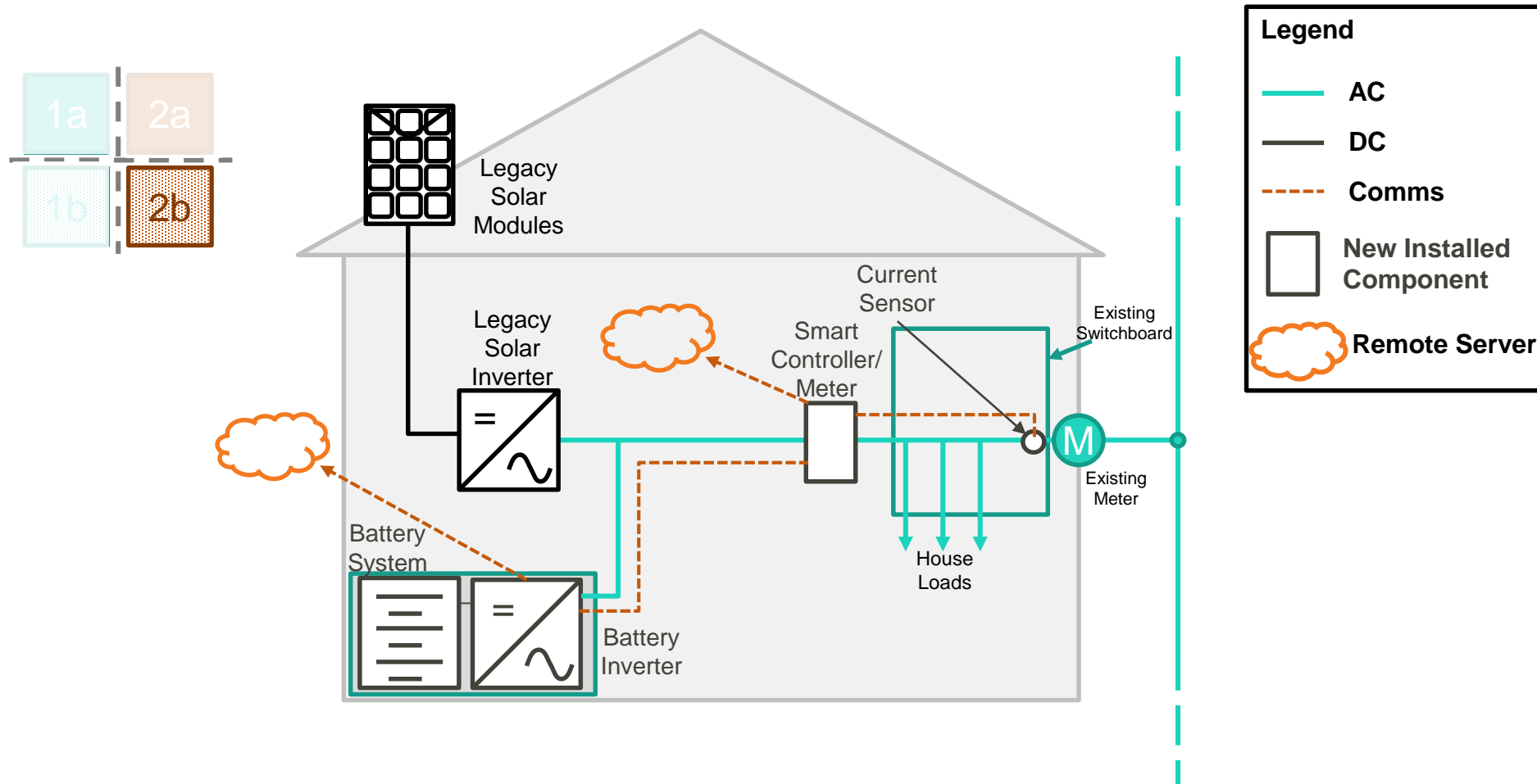
- Legacy solar modules remain, but **legacy solar inverter replaced with a new hybrid inverter**
- Otherwise equivalent to a greenfield install using a hybrid inverter (Scenario 1a)

Scenario 2b: 'Legacy solar' household, add new inverter



- Pre-install state of the property is shown – legacy solar modules and legacy solar inverter are present on the property

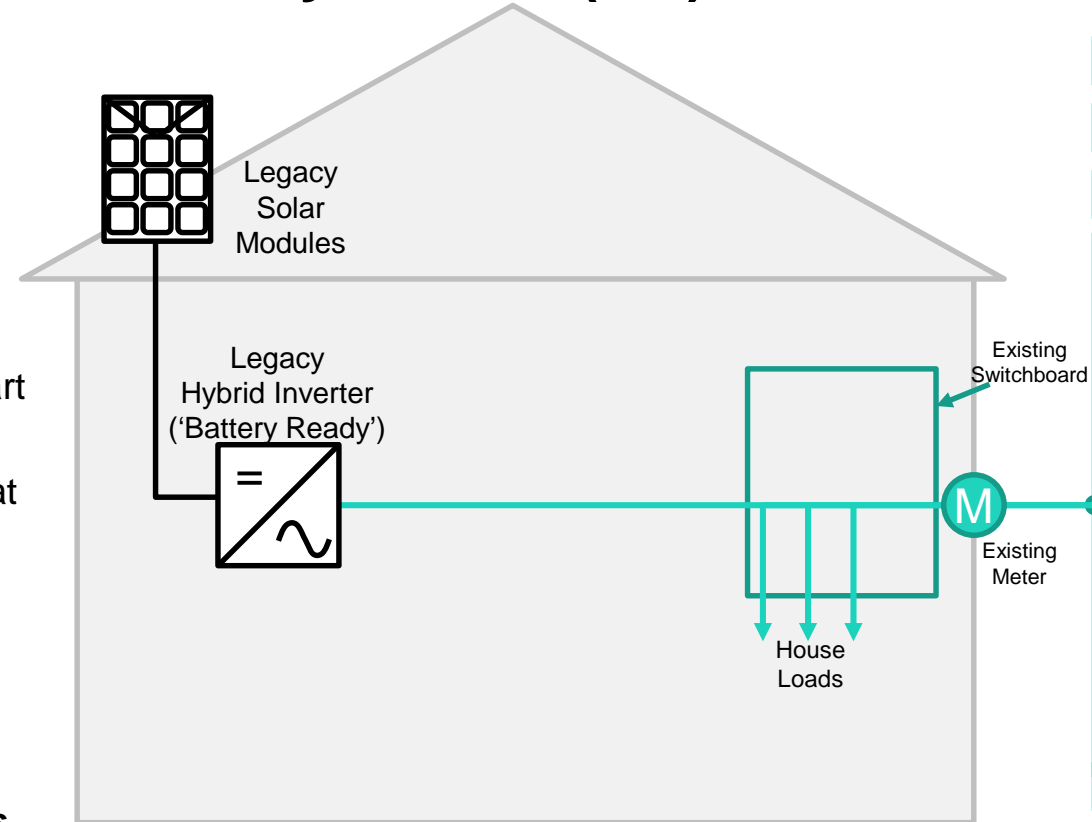
Example configuration only - many variations possible



- System installed makes use of legacy solar modules and solar inverter
- A separate, new AC-coupled battery inverter and battery system are also installed
- This configuration is expected to be likely in cases where the battery product is a self-contained integrated product combining inverter and battery modules (shown via shading)
- Battery inverter and battery system may instead be separate products

Making use of components already on site (1/2)

- Customers interested in a HBS subsidy may already have some relevant components installed on their property – an example (shown here) could be a 'battery ready' hybrid inverter that had been installed in anticipation of adding a future battery system, or an existing smart energy controller.
- The intent of the scheme is to ensure that customers can make appropriate use of components that are already installed, while ensuring they end up with systems that are no less VPP-capable than the complete new systems otherwise being provided under the scheme.
- **Existing installed system components can be incorporated into a system eligible for HBS subsidy only if the resulting final installed system is identical to the provider's approved offering under the scheme.**



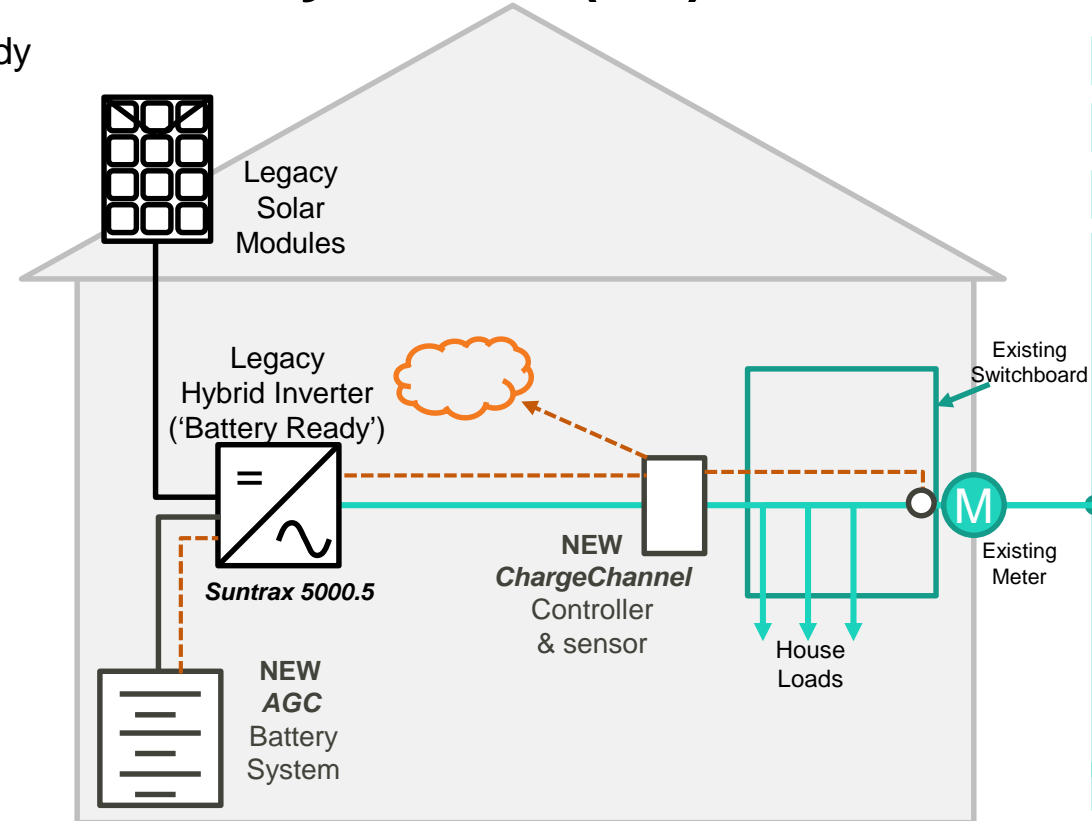
- The subsidy amount is calculated only on the basis of new installed storage capacity (kWh) – the subsidy is not calculated on battery storage that is already installed or in a used condition.

Making use of components already on site (2/2)

- As an example, assume a customer already has a *Suntrax 5000.5* hybrid inverter on site, and wants to install a battery system eligible for the HBS subsidy while making use of this existing component.
- That customer can either:
 - a) Find a HBS provider that already includes a *Suntrax 5000.5* inverter as part of a HBS-approved offering, and have that provider supply/install the *other* components in that approved offering so that the final system is eligible for HBS subsidy,

OR

- b) Find a HBS provider that is willing to gain a new approval for a HBS-approved system that includes the *Suntrax 5000.5* inverter, and following approval, engage that provider to supply/install the *other* components so that the final system is eligible for HBS subsidy.



- For this example shown, the approved offering would be a combination of a *Suntrax 5000.5* hybrid inverter, an *AGC Battery System*, and a *ChargeChannel* controller. The subsidy amount would be based on the *AGC Battery System* capacity, as per usual.



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South Australian Home Battery Subsidy

Qualification, eligibility and finance

September 2018

Who is RateSetter?



Technology-led lender

- Largest retail marketplace lender in Australia, with >40,000 customers
- Funding ~\$25m a month



In partnership with the Clean Energy Finance Corporation

- Funding more interest-bearing renewable energy loans monthly than any other Australian lender
- \$120m funding commitment from various financial institutions including the CEFC



Providing administration and finance to back the Home Battery Subsidy Scheme

- Leverage technology to develop a bespoke solution for the South Australian Government
- Partnership approach to working with the industry

RateSetter's role in the Home Battery Subsidy scheme



Qualification of
System Providers



Assessment of
subsidy eligibility and
payment



Finance



Providing
engineering expertise



Setting the rules



Advising customers
on suitability of a
system

A high-angle, black and white photograph of a vast solar farm. The solar panels are arranged in neat, parallel rows that stretch towards the horizon. The sky is filled with soft, wispy clouds. A semi-transparent white rectangular box is centered in the upper half of the image, containing the text "Customer journey".

Customer journey

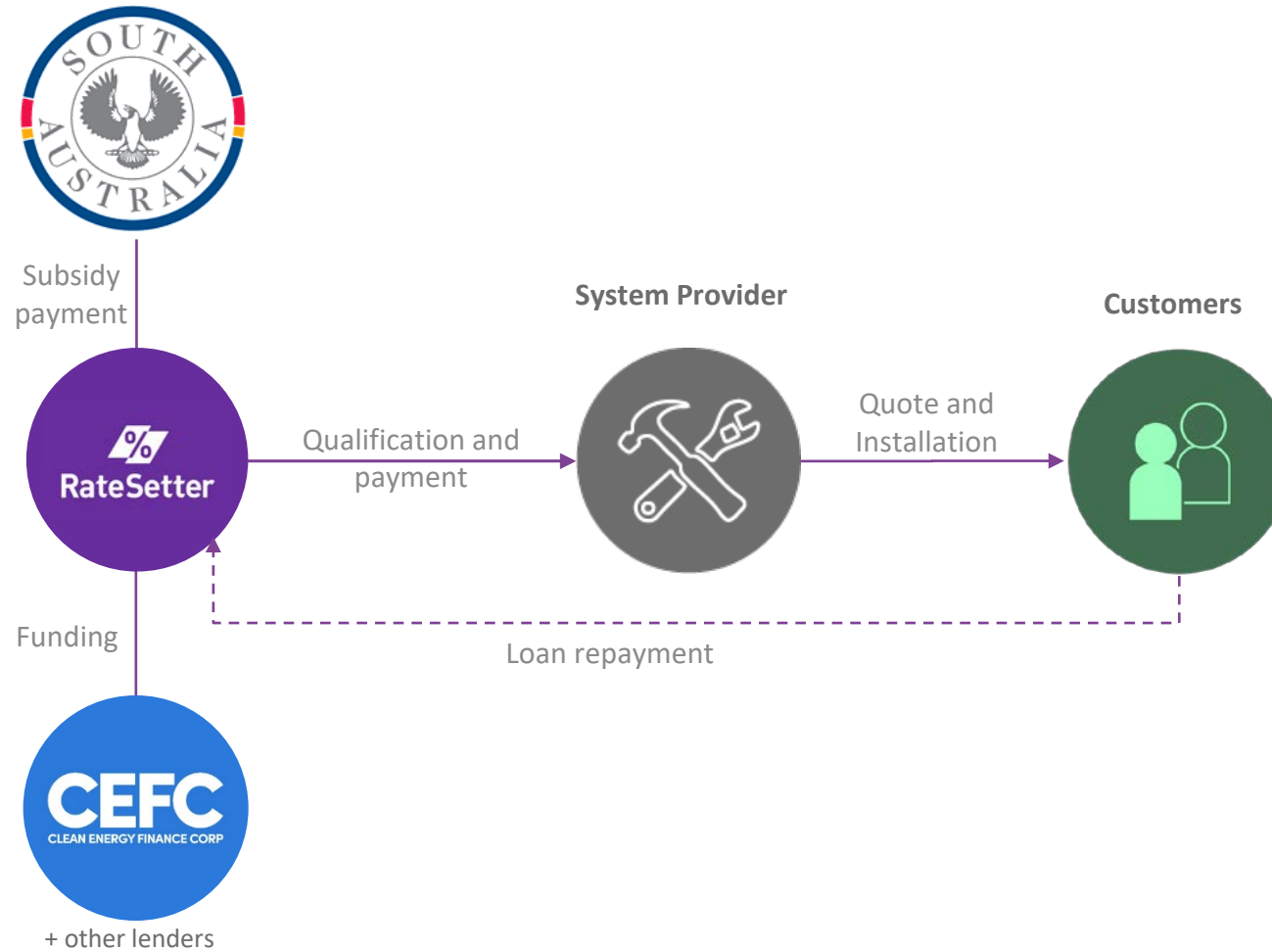
The customer journey

System
Provider



The customer journey

RateSetter has been appointed by the South Australian Government to administer its subsidy program and deliver CEFC finance to residents



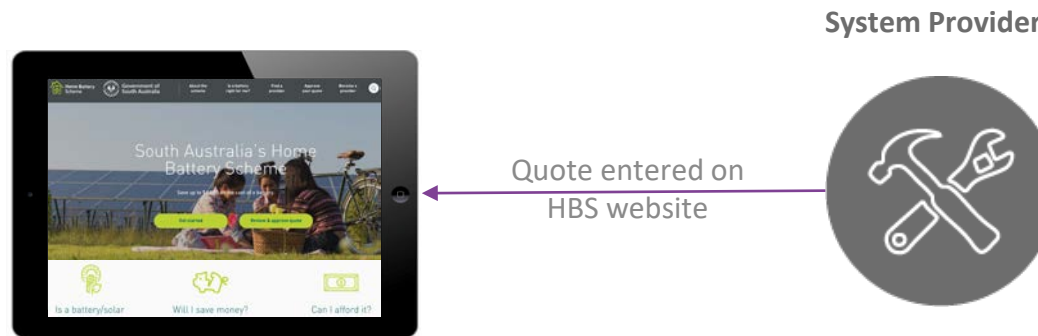
Step 1 – customer journey

Customer comes to you for a quote



Step 2a – customer journey

System Provider enters basic details of the quote on the HBS website

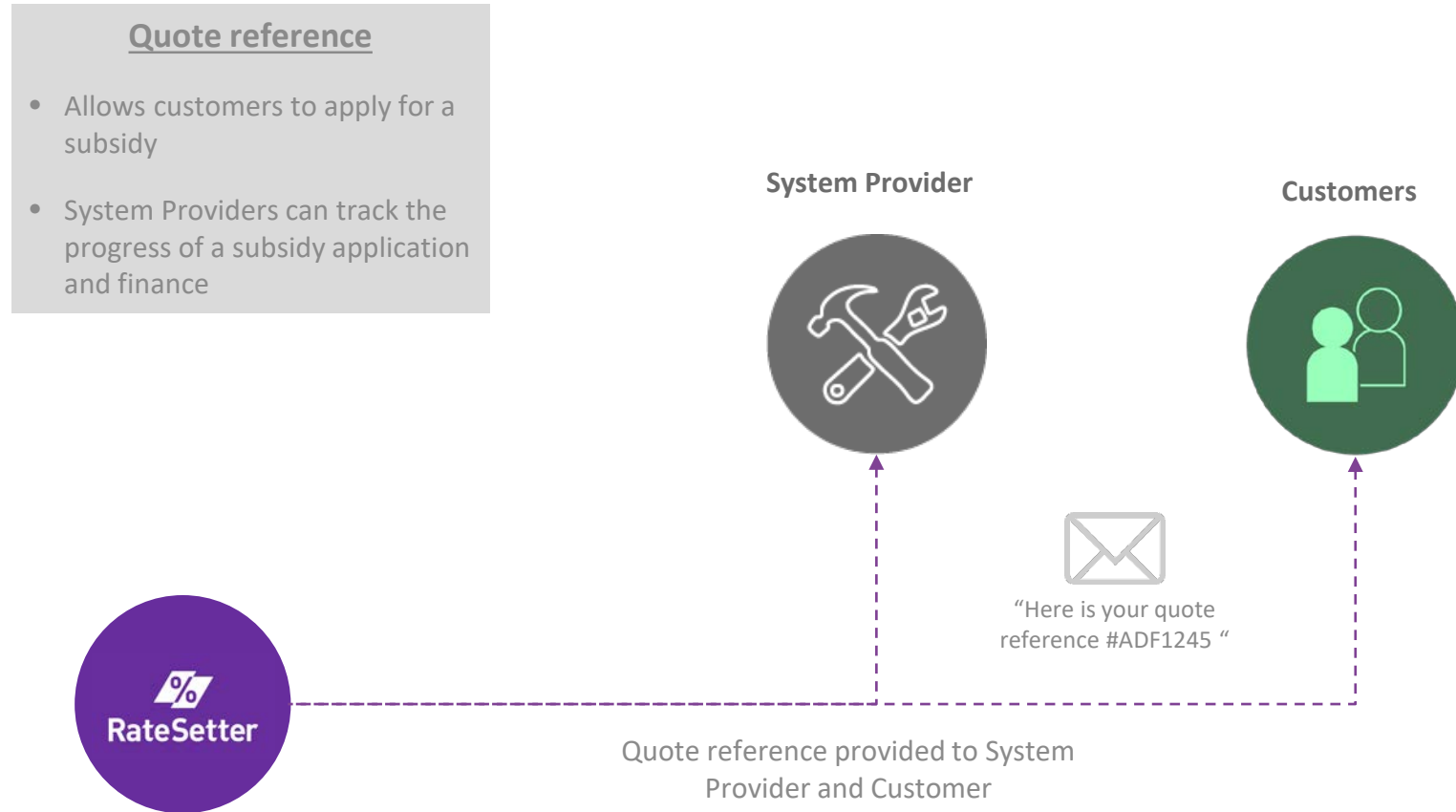


Eligible equipment

- Quote must be for eligible equipment
- Quote must be with a qualified System Provider
- Can include solar panel

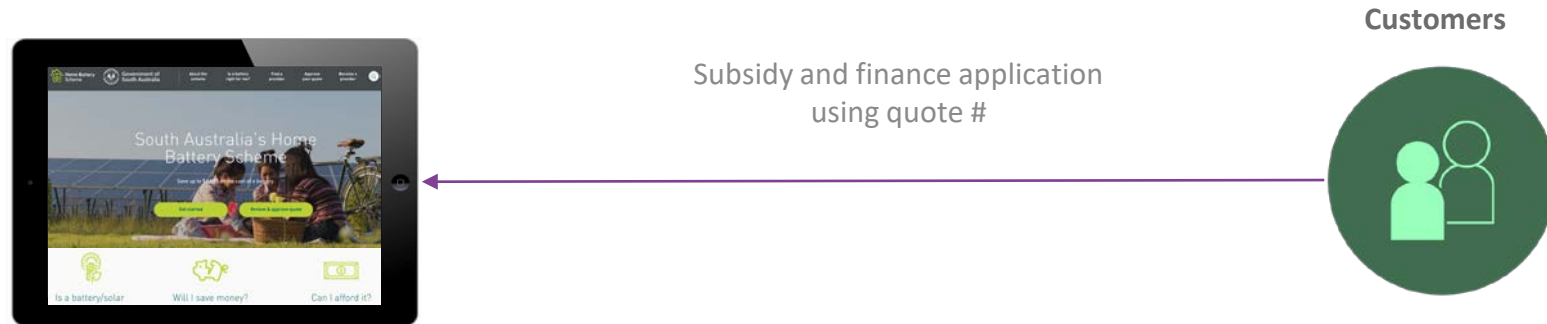
Step 2b – customer journey

RateSetter provides a unique Quote # to the System Provider and Customer



Step 3a – customer journey

Customer applies for subsidy and finance



Subsidy

1

Residential home

- Only one subsidy per home

2

No commercial properties

- Mixed use considered case by case

3

Increased subsidy for concession card holders

- Will need evidence of concession on bill

4

Power bill

- Every application will need to upload a photo of their most recent power bill (dated within last 6 months)
- Landlord will have to get tenant's bill

Finance

1

Financial details

- Name, address etc
- Income/expenses

2

Bank statements or payslip

- Bank statements can be done online

3

Credit check

- Clean credit file (no defaults)

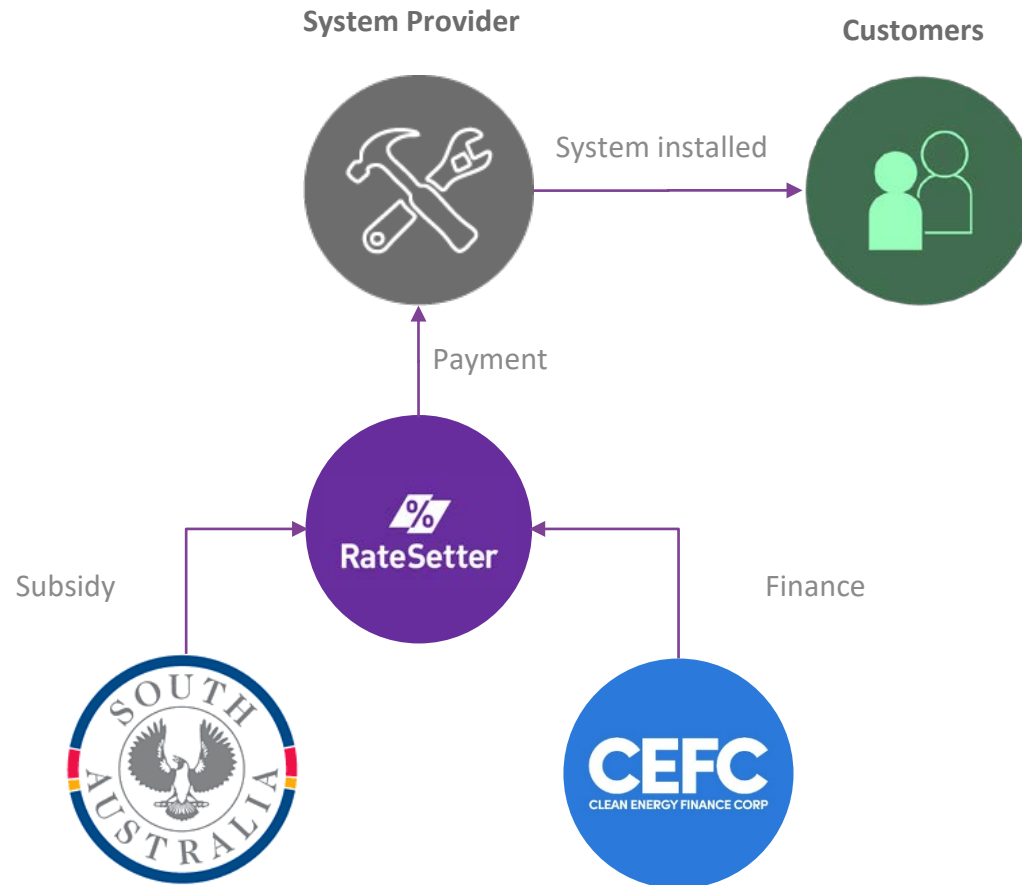
Step 3b – customer journey

Customer and System Provider receive result of finance application



Step 4 – customer journey

System installed and customer gives OK



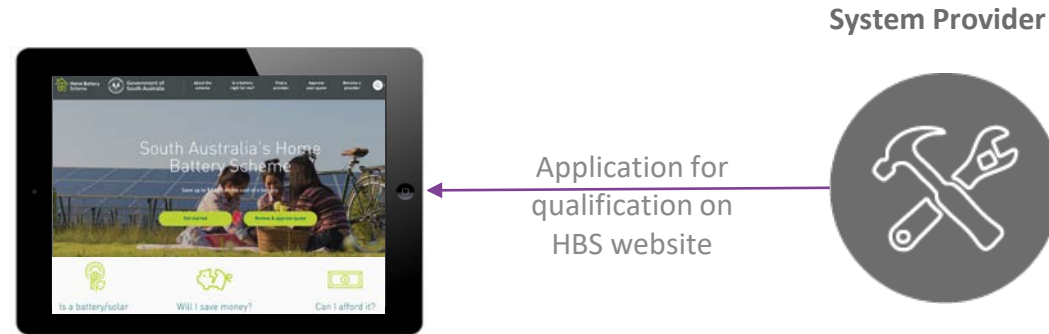
Payment within 24 hours

- Installation of eligible equipment
- Invoice sent to RateSetter will all model numbers etc
- Confirmation from customer that they are satisfied

A high-angle, black and white photograph of a vast solar farm. Rows of solar panels stretch across the landscape towards the horizon. The panels are dark with a grid of thin, light-colored lines. The sky above is filled with soft, textured clouds. A semi-transparent white rectangular box is centered in the upper half of the image, containing the text 'System Provider qualification'.

System Provider qualification

System Provider qualification



1

Competency

- Vendor must be a CEC Approved Solar Retailer OR committed to the CEC Solar Retailer Code of Conduct or an acceptable equivalent Code of Conduct that has been authorised by ACCC
- Installers must be a CEC Accredited Solar Installer (design and install) with a storage (grid connected system) endorsement
- Manufacturer accreditation for systems the retailer intends to install (if applicable)

2

Safety

- Compliance with all laws, regulations and codes

3

Financial standing

- Solvency
- Good credit of System Providers, directors and senior management

4

Reputation

- No material customer disputes and/or litigation
- No negative media (unless unsubstantiated)
- No unresolved reports to the South Australian Consumer and Business or Office of the Technical Regulator
- Online searches of customer review sites etc

System Provider qualification (information)



Information

System Provider



1

OEM accreditations

- List accreditation with OEMs that are held

2

Employee accreditations

- List CEC accreditation of employees

3

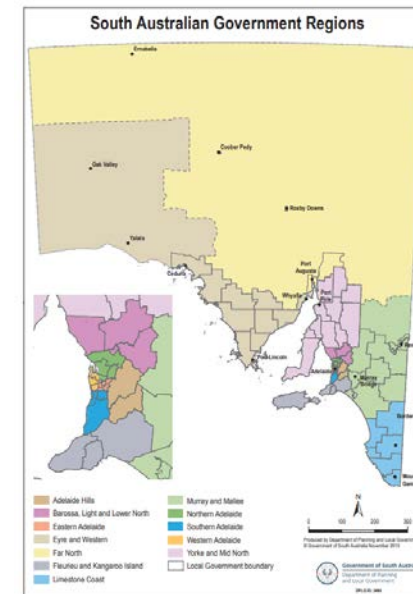
Service Area

- Where do you operate?

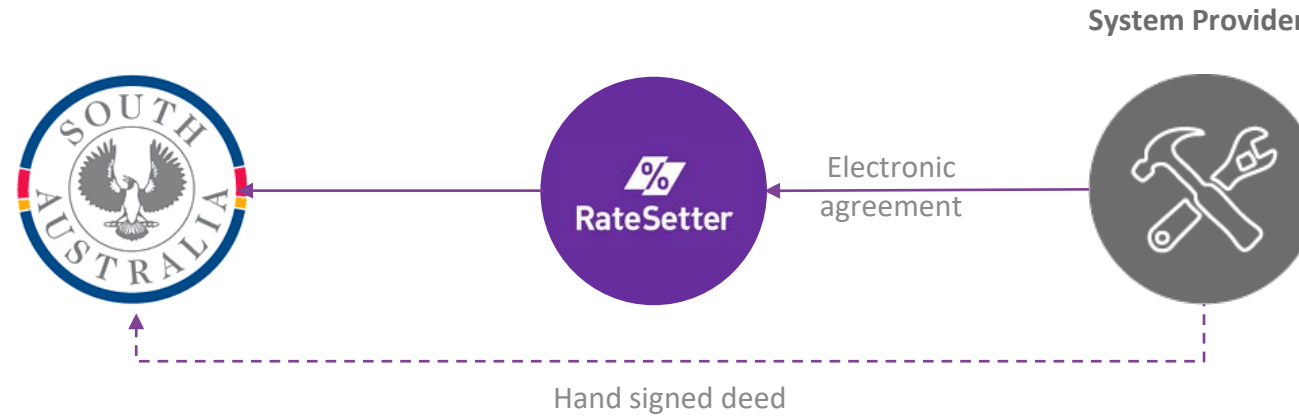
4

South Australian content

- Presence in South Australia
- # of staff



System Provider qualification (legal)



1

System Provider Agreement

- Will comply with the System Provider Rules which will be on the SA Government website
- Pay the administration fee, \$50 per subsidy (unless finance is obtained by the customer from RateSetter)
- Acceptable levels of insurance

2

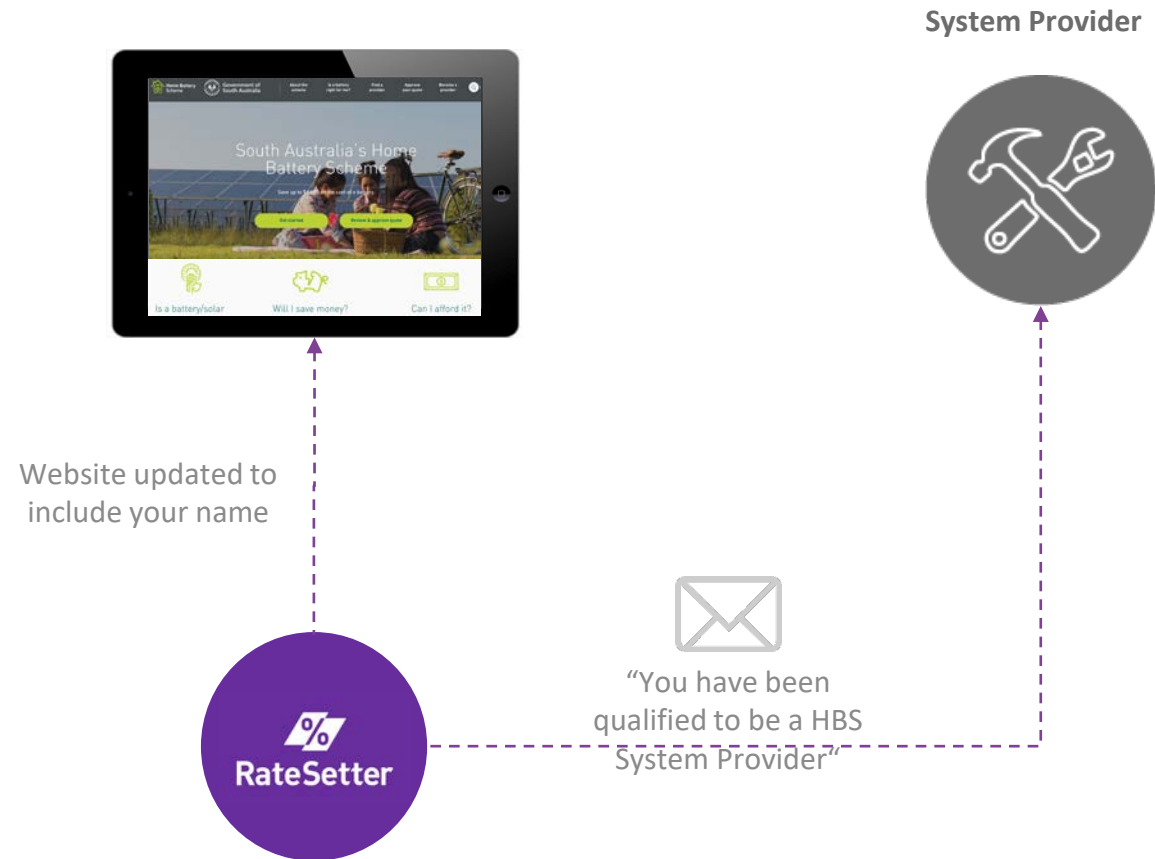
System Provider Rules


- Financial health, competency (ie CEC accreditation), OEM accreditation
- Only install eligible systems
- Comply with Work Health and Safety Act and notify Government of any dangerous situations and notify the Government of injuries
- Retain records for 5 years
- Warranty requirements

Required warranty

- Battery: 7 years
- Inverter: 5 years
- Workmanship: 5 years
- Balance of system: 5 years

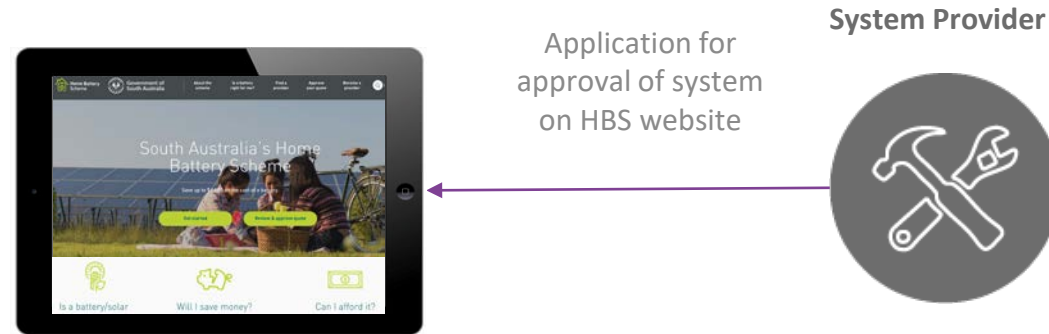
System Provider qualification



A wide-angle, low-perspective shot of a solar farm. The image shows multiple rows of dark, rectangular photovoltaic panels stretching towards the horizon. The panels are mounted on a structure that creates a series of parallel lines across the frame. The sky above is filled with soft, grey clouds, creating a diffused light environment. A semi-transparent white rectangular box is positioned in the upper-middle part of the image, containing the text "Eligible systems".

Eligible systems

Eligible systems



1

OEM accreditation (if applicable)

- Provide evidence from OEM

2

Internet connectivity, remote registration, configuration, control and monitoring

- Needs to be capable and system components need to be compatible

3

Performance, safety and security

- System meets relevant design standards

4

Warranty

- 7 years on battery
- 5 years on inverter and other

Eligible systems



Two options for the System Provider

1

Contact your OEM

- OEMs will be able to assist with the technical elements of the system approval

2

Complete the application yourself

- System Provider may wish to apply for approval of systems made up of their own componentry design

Finance

1

Fully online application

- Provides immediate feedback to customers on repayments and approval

2

Integrated into HBS subsidy application

- Simple for customers to complete

3

Low rates & transparent fees

- Base rate just above mortgage rates
- Upfront fee and monthly fee

4

Fast approvals

- Approvals within minutes where all customer information provided
- RateSetter hotline for queries and support

5

System Provider portal

- Status updates on finance approvals



Renewable energy loan	
Loan purpose	Installation of eligible energy efficient equipment (e.g. solar panels, batteries, low energy lighting)
Amount	\$2,001 - \$80,000
Term	3 - 7 years
Security	System
Structure	Fully amortising
Interest rate	Circa 5.5% p.a. plus fees
Funding source	



+ other lenders



SOLAR RETAILER CODE OF CONDUCT

Udhara Weerasinghe

**PRODUCT PROGRAM
SPECIALIST
CLEAN ENERGY COUNCIL**

September 2018



THE PEAK BODY FOR THE RENEWABLE ENERGY INDUSTRY IN AUSTRALIA

OUR PROGRAMS



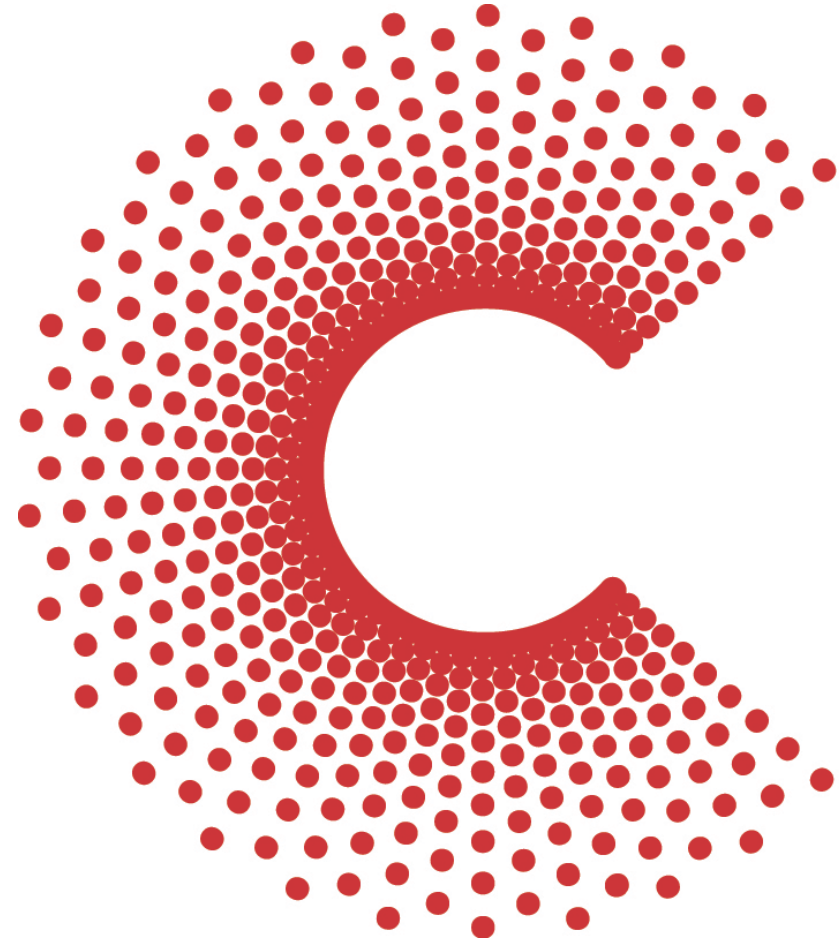
For companies interested in supporting and being involved in the work of the CEC and the renewable energy industry



For individuals designing and installing solar and battery storage systems



For solar retailers committed to responsible sales and marketing activities and solar industry best practice



WHAT IS A
CLEAN ENERGY COUNCIL
APPROVED
SOLAR
RETAILER

A high-angle, wide shot of a family of five enjoying a sunny day on a patio. The patio is paved with grey concrete and features a wooden table and six green-cushioned chairs. A man in a blue t-shirt sits at the table, smiling, while a woman in a patterned tank top sits next to him, reading a magazine. A young boy in a blue patterned shirt sits on the left, also reading a magazine. A young girl in a white shirt and patterned pants sits on the right, using a laptop. A woman with curly hair stands behind the table, holding a tablet. The background shows a brick house with a red-tiled roof and a large array of blue solar panels. The scene is bright and sunny, with shadows cast on the patio. A semi-transparent white banner with the text "CONSUMER BENEFITS" in red is overlaid across the middle of the image.

CONSUMER BENEFITS

TENDERS

OPPORTUNITIES
FOR APPROVED
SOLAR RETAILERS

POSITIVE CHARGE

Open now, VIC and NSW by
Moreland Energy Foundation

INTEREST FREE LOANS FOR SOLAR AND STORAGE

Open now, QLD by
Department of Natural Resources, Mines and Energy

HOME BATTERY SCHEME

Opens in October 2018, SA by
South Australian Government

For more information visit solaraccreditation.com.au/retailers

HOW TO BECOME AN APPROVED SOLAR RETAILER



106

*Approved Solar
Retailers*

73

*Pending
applications*

78

*Rejected
applications*

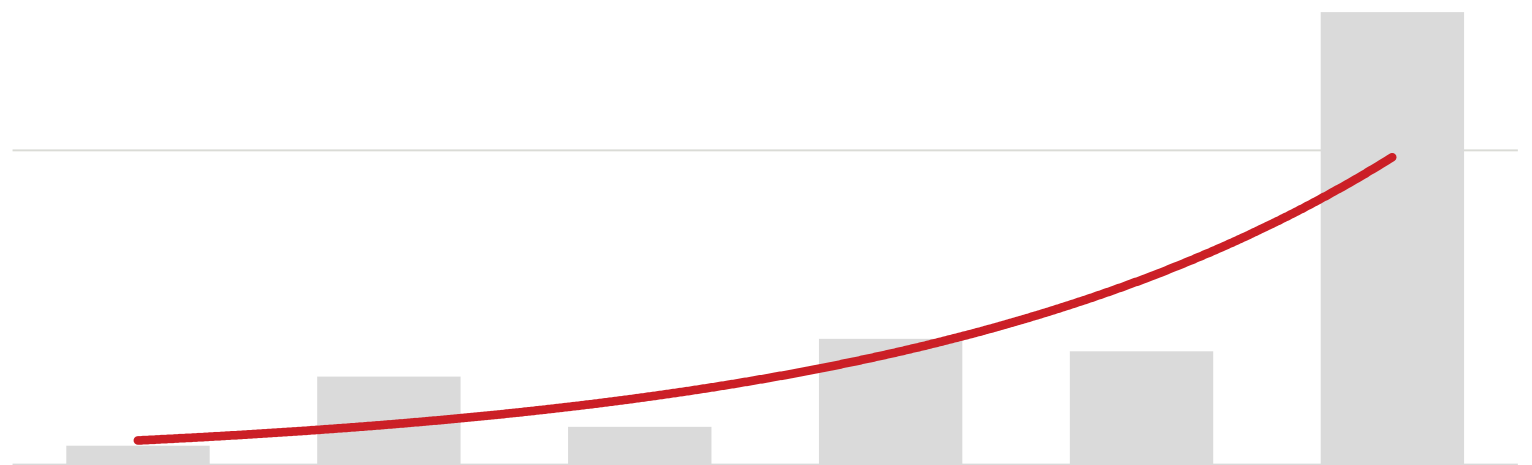


Total number of applications...

200

100

0



2013 2014 2015 2016 2017 2018

SOLAR PV SALE AND INSTALLATION AGREEMENT

The Agreement is designed for solar retailers and installers to use with their residential and small business customers

The Agreement includes:

- Customer quote
- Terms and conditions of the sale, including:
 - Sale of the system
 - Payments and refunds
 - Delivery and installation
 - Accessing premises
 - System performance, maintenance and STCs
 - System guarantees
 - Complaints
 - Privacy





FEES

APPROVED SOLAR RETAILER

- Application fee of \$200.
- Annual fee based on the number of kW of solar installed by that company in the last 12 months and calculated at \$0.80 per kW.
- Minimum annual fee is \$600. Maximum annual fee is \$6,000.

SOLAR PV SALE AND INSTALLATION AGREEMENT

- \$1,600 for Non CEC Members
- \$800 for Approved Solar Retailer
- \$400 for CEC Members
- \$1030 including 1 year CEC Network Membership

*Costs are stated ex-GST.

A large crowd of people, mostly men in business casual attire, are gathered at what appears to be a trade show or conference. The background shows a dark wall with logos, including 'REC' and 'SOLAR'. A semi-transparent banner is overlaid across the center of the image, containing the text 'PROMOTION OF APPROVED SOLAR RETAILERS' in bold red capital letters. The crowd is dense, with people engaged in conversations and looking in various directions. Some individuals are holding water bottles or small items. The overall atmosphere is busy and professional.

PROMOTION OF APPROVED SOLAR RETAILERS

BECOME A CLEAN ENERGY COUNCIL APPROVED SOLAR RETAILER TODAY

solaraccreditation.com.au/retailers



BEST PRACTICE GUIDE: BATTERY STORAGE EQUIPMENT

ELECTRICAL SAFETY REQUIREMENTS

SUPPORTED BY:



BATTERY PRODUCTS

- The Clean Energy Council is developing a list of energy storage devices that meet industry best practice requirements.
- CEC is currently taking applications for Li battery products to be listed on a CEC approved battery storage list

<https://www.solaraccreditation.com.au/products/energy-storage-devices.html>





BATTERY ENDORSEMENT

To become endorsed to install grid-connected battery storage, accreditation must also be held for the design and install of grid-connected (GC) photovoltaic systems.

Additional training modules:

The training codes for these units are

- UEERE4002A Install, maintain and fault find battery storage systems for grid-connected photovoltaic systems
- UEERE5001A Design battery storage systems for grid-connected photovoltaic systems



**WHY DO I NEED TO DO
ADDITIONAL TRAINING?**



HOW WE CAN HELP YOUR BUSINESS



Smart Advocacy



A strong
public voice



Raising
standards



Get the
latest insights



Support Policy

Ovid
Energy Infrastr

Solte

the Industry Advocate



Advocate, Collaborate, Innovate

A key objective of the South Australian Industry Participation Policy is:

- To increase the number and diversity of locally based businesses winning work

The SA Industry Participation Policy now requires:

- The design of technical specifications and project requirements **should** provide suppliers which have employed or invested in South Australia with an opportunity to win contracts and sub-contracts.
- For the SA Industry Participation Policy to have maximum impact, project design specifications **should not** be an obstacle to the South Australian supply of required goods or services.
- Design specifications should use Australian standards, or standards regularly used in Australia and be performance based rather than product specific where possible.

Why do we need to know what products are manufactured and supplied in South Australia?

The effect of sourcing products and services from locally-based suppliers and suppliers who source inputs locally is significant, as this maximises the amount of local labour and the amount of economic contribution being retained in South Australia.

Who will use the SA Product Register?

It will provide a practical way for anyone working for the State Government, project managers, architects, designers and consumers who might be designing a building, landscaping, an office fitout, procuring renewable energy systems or wanting a technology solution to find local manufacturers and suppliers.



Search 



About Us



News



Events



Industry Sectors



SA Product Register



Contact Us

Register Your Business

Make Your Site Compliant

Search By Industry



South Australian Product Register

Search By Name 

Supply Chain Descriptors



Manufacture

SA Manufacture

means the holistic manufacture or fabrication of finished goods is undertaken in South Australia.



Supply

SA Supply or Distribution

means the supply or distribution of the product occurs within South Australia.



Assemble

SA Assembly

means that separate component parts of the end product are put together in South Australia.



Install

SA Install

means the product is installed within South Australia.



About Us



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SA Product Register



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South Australian Product Register

130lm/W BATTEN SERIES LIGHTS

Mirage Series: 69mm-160mm Batten (Replaces single or double fluorescent light)

Code: BLMO30W1200*69WH Size Options: 1200mm or 600mm Lengths

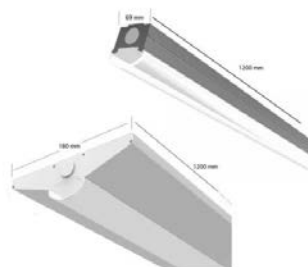
The perfect LED replacement of traditional Fluorescent Lighting, specially designed to cover existing holes and paint around areas.



SA Assembled, SA Supplied and SA Installed

Key Features:

- Watts: 30W
- Rating: IP20
- Colour Temp: 4000K
- CRI: >80
- Efficiency: >130lm/W
- Warranty: 5 Years
- Installation: Surface Mounted



Manufacture



Assemble



Supply



Install

At the heart of the Tindo Karra photo-voltaic module is brilliant technical and intelligent design fused with a range of innovative materials that make it the ultimate solar panel.

Our new Tindo Karra-295W PERC monocrystalline allows Tindo to fit more power into less space for a comparable price. The development and testing of this module has been in the making for some time now with the participation of the Australian National University in Canberra.



tindo solar

SA Product Register

<https://industryadvocate.sa.gov.au/sa-product-register/search-industry/>

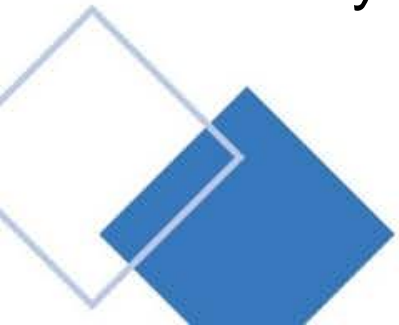
Contact Details:
Office of the Industry Advocate
8226 8956
oia@sa.gov.au



Questions?

Panel:

- Sam Crafter, Executive Director, Energy Implementation Department for Energy and Mining
- Andrew Jones, Head of Commercial Development, RateSetter Australia
- Udhara Weerasinghe, Clean Energy Council
- Ben McGarry, Aurecon
- Ian Nightingale, Industry Advocate
- Bryn Williams, SAPN



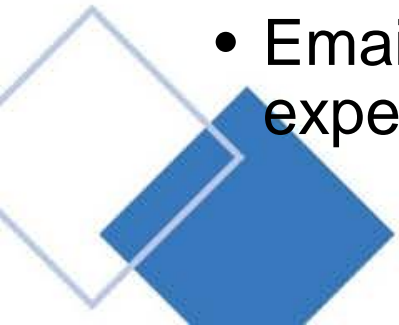
Next Steps – Qualified System Provider

You should:

- Check HBS website for today's presentation and Eligible Equipment Criteria.
- Register on the SA product register
- Understand and gain relevant CEC Accreditations
- Understand the Eligible Equipment Criteria
- Talk with OEMs

SA Government will:

- Email when System Provider and Eligible Equipment application is open – expected next week





South Australia's Home Battery Scheme

Thank You

www.energymining.sa.gov.au/hbs



Disclaimer

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