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ELECRAMA
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eTECHnxt
20-21 February, 2023
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The Importance of Real time Energy to manage the Future Grid

Name: Simon Helm

Designation: Business Development Manager

Organisation: Village Energy Australia



Agenda and Context

- About Village Energy
- Experience in India
- Experience in Australia
- Benefits of real time meter data
- Accessing real time meter data
- Use case



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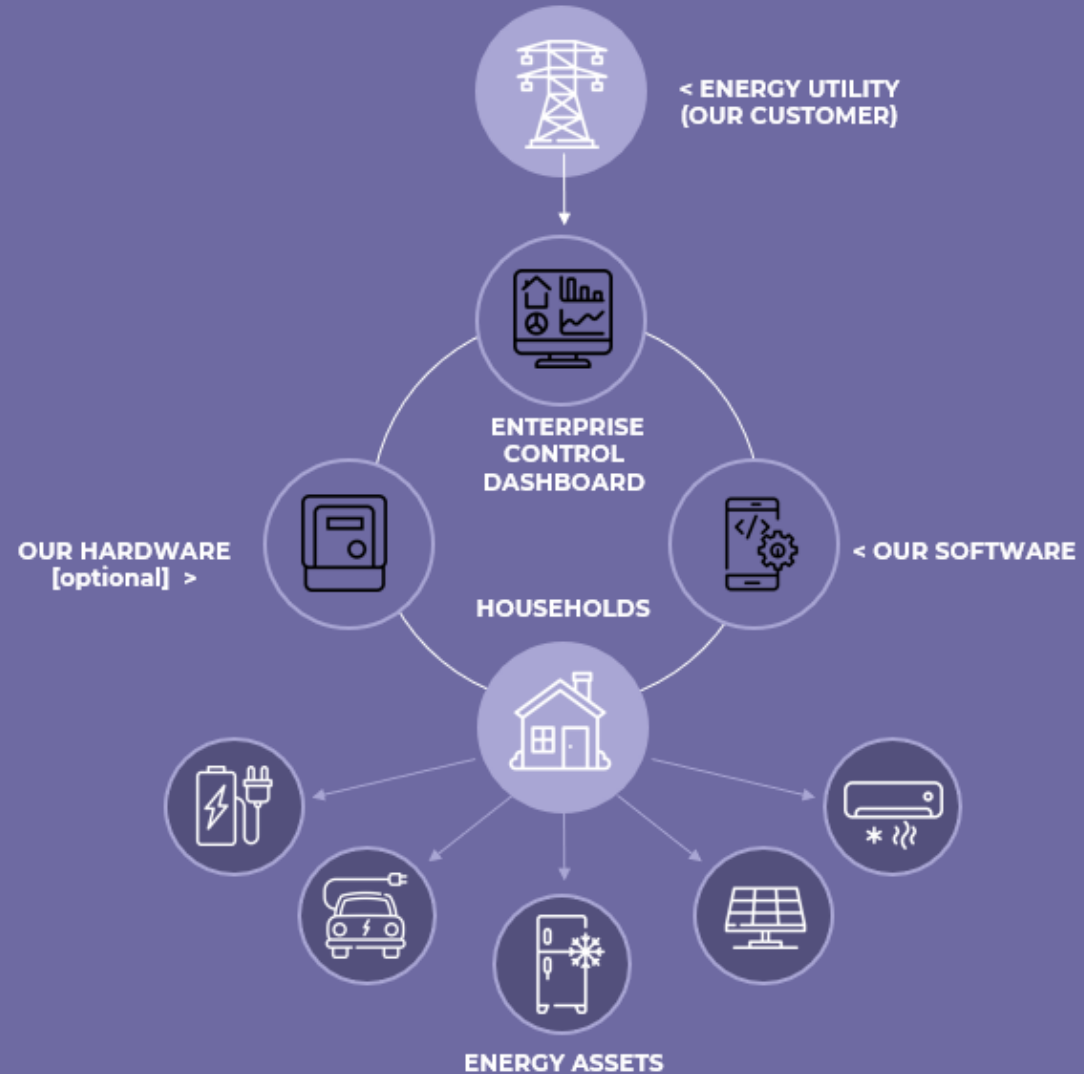
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The Village Energy Solution

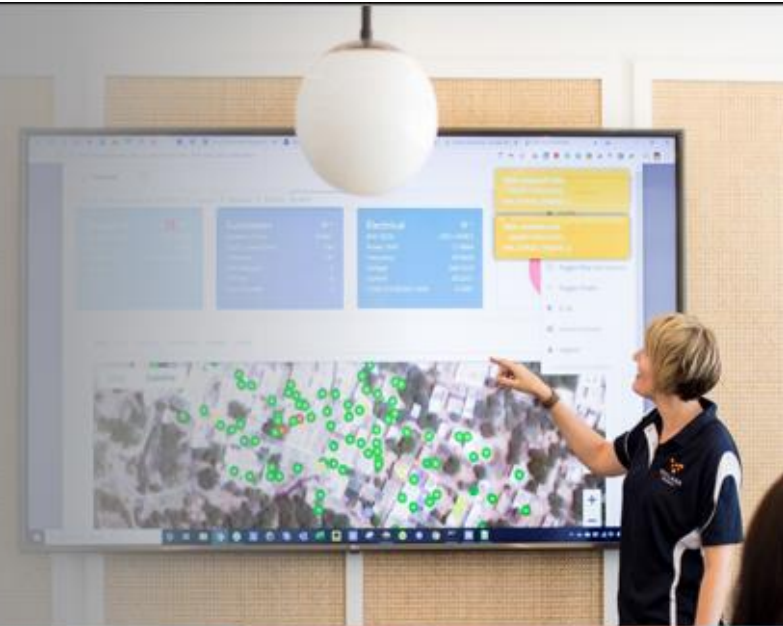
Village Energy provides utilities with a solution that seamlessly manages this new grid complexity. We provide this solution to the utilities, and they make it available to their customers (households). Our platform helps stabilise and optimise the grid by managing the decentralised supply and demand of energy at the device level within each household.





In India we delivered transformational benefits

Village Energy deployed our VEDA IOT devices to 130 houses on a single transformer, including a device on the transformer. Customer prioritized their demand through a mobile app and a dynamic price signal was used to automate the supply and demand balance in the grid. A video of the case study can be found [here](#).



Utility Costs / kWh¹

30%



No. of Grid Outages

75%



Peak Load Reduction

13%



Rooftop Solar

50%²



¹ Based on 2019 Regulatory Approved Cost ² greater than 50% power at certain times



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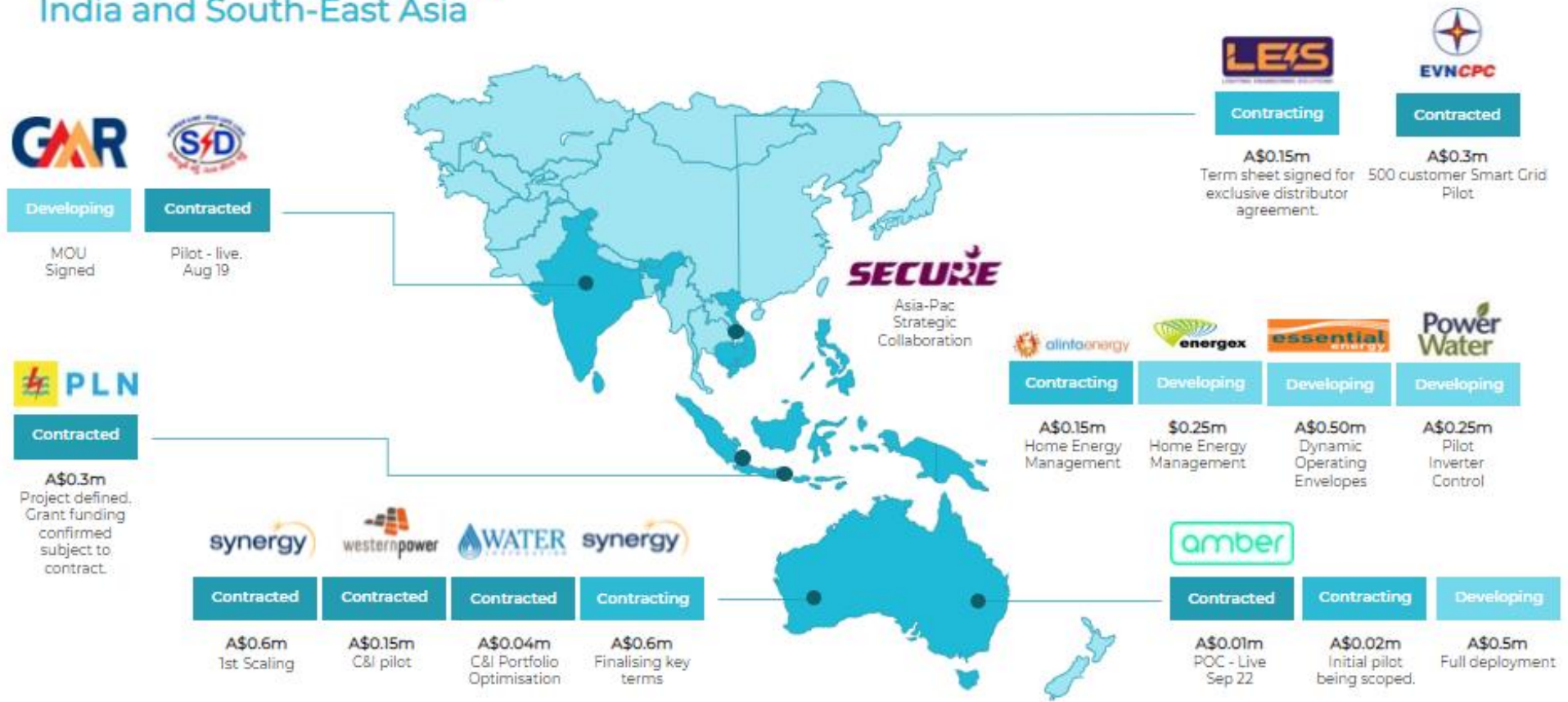


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— \$5m+ in sales pipeline developing across Australia, India and South-East Asia





- From our experience in Australia and South East Asia, one of the challenges of managing the grid and introducing demand flexibility is access to real time meter data.
- Access to real time meter data can be costly, with the need for expensive additional hardware that needs to be installed by a technician. In some cases the cost can be as high as US\$2,000.
- Without access to real time meter data, it is not possible to efficiently manage customers' behind the meter assets and provide demand flexibility that provides value to the customer and the grid.
- We needed to find a low cost solution to get access to real time meter data.



Benefits from real-time metering data



Improved control over energy costs - savings of 5-15%



Reduced greenhouse gas emissions



Home automation and participation in Demand Response programs and VPPs



Low-cost net zero export capability



Better bill management for vulnerable customers



Reduced bill shock – real time billing



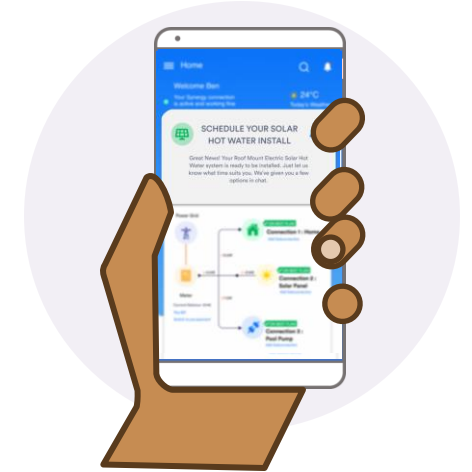
Notifications to alert customers about energy use



Customer mobile app



Village Energy have partnered with Secure Meters to deploy this technology in Australia and South East Asia



- 1 Access to Secure smart meter through ZigBee Home Area Network (HAN) or BLE
- 2 Zigbee-enabled gateway connects to smart meter and collects real-time, revenue grade smart meter data
- 3 Village Energy platform receives 1 minute data from the Village Energy Gateway using customer Wi-Fi
- 4 Customer receives near real time (1 minute) energy data, energy spend and alerts on mobile app. Data also streamed to utility.



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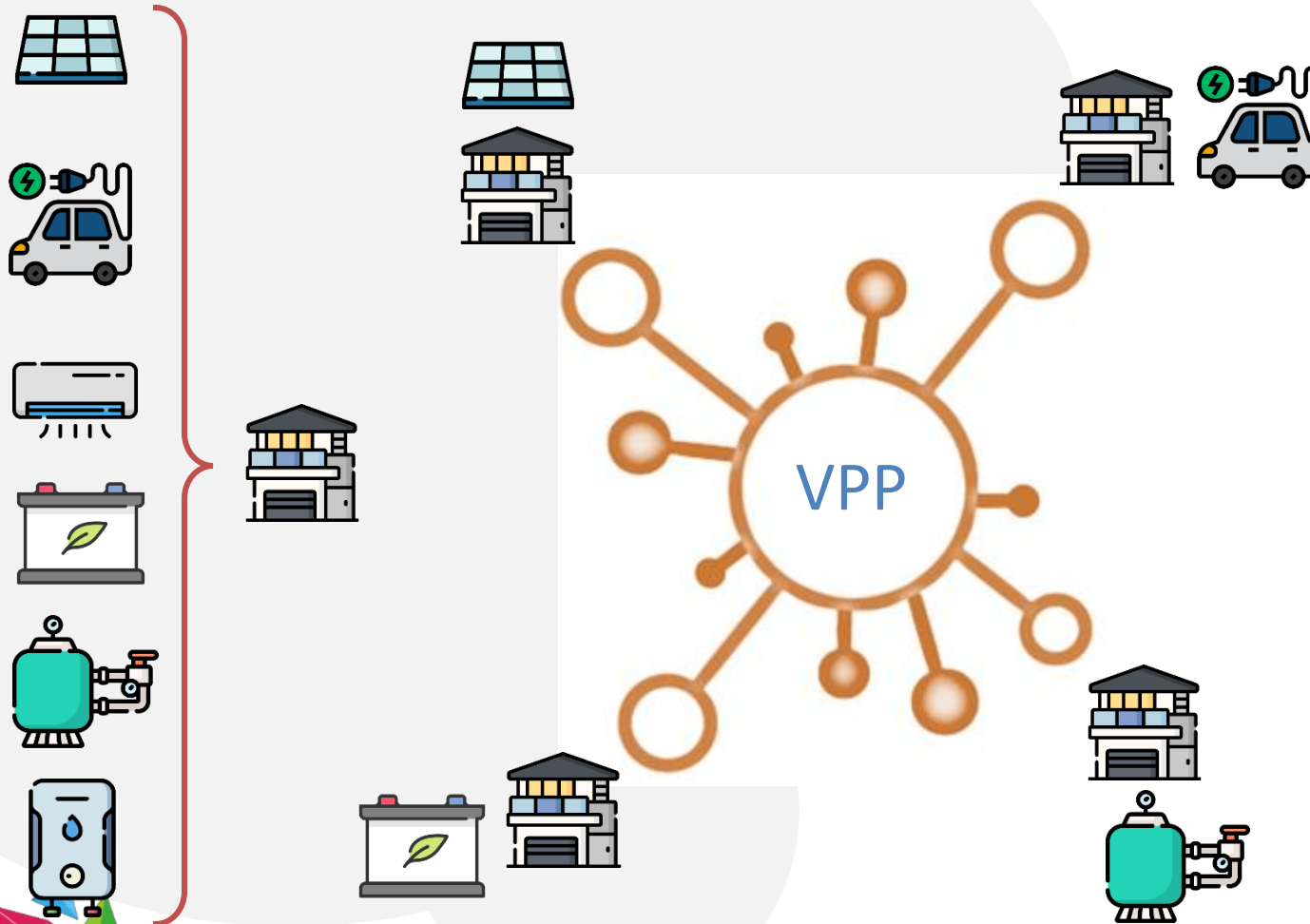


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Real time data is vital to implement Virtual Power Plants



Improve gross margins

Peak shaving

Ancillary Services

Grid Support



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Thank You

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