



# Virtual Energy Network

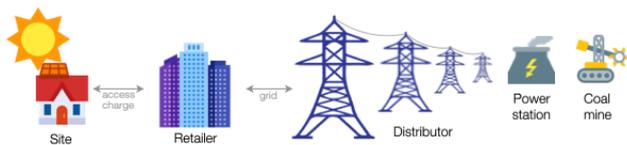
## A new opportunity in energy management

There are considerable savings to be made in reducing the operational costs of facilities by undertaking a program of energy demand management, strategic investment in energy efficiency technology and onsite energy generation and storage.

Efficiencies will effectively reduce an organisation's greenhouse gas emissions profile in line with the Federal Government's affirmation of its commitment to the Paris Agreement for climate action beyond 2020.

**Energy contracting:** review current costs of your energy contracts through this no cost, no obligation service which will confirm whether or not your organisation's properties are currently paying the lowest available cost contracts for energy provision (electricity and gas). See: [www.leadingedgeenergy.com.au/rethink-sustainability](http://www.leadingedgeenergy.com.au/rethink-sustainability)

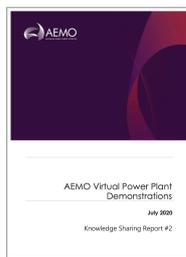
An Energy Management Program provides an opportunity for a company to review its operations in view of the United Nations Sustainable Development Goals (SDGs) of which Australia is also a signatory.



1. Traditional energy sourcing

As Australia transitions from the current centralised, 80% fossil fuel powered electricity grid to one with increasingly distributed renewable energy resources (DER), there are now many opportunities to create greater value for electricity consumers.

The Australian Energy Market Operator (AEMO) has recently published its second *Virtual Power Plant (VPP) Demonstrations Knowledge Sharing report*<sup>1</sup>, highlighting the key role they expect VPPs to play in Australia's energy future<sup>2</sup>.

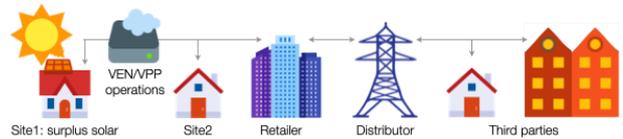


ReThink Sustainability's **Virtual Energy Networks** respond to this program, however, our VEN doesn't just despatch stored energy from a battery like a VPP, our VEN enables excess energy generated and/or stored to be consumed at other sites or by members in the network.

Our VEN platform transforms the way in which energy is managed from the traditional site by site model, to a model which allows control over how energy is sourced, generated, stored and distributed.

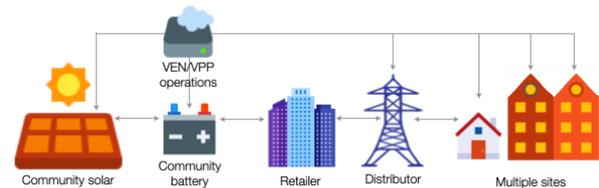
## How is our Virtual Energy Network different?

- the VEN platform provides detailed site energy profiling including total site electricity usage, total renewable energy generation, grid supplied vs self-generated electricity usage as well as total electricity exported to be used at other VEN sites.
- our VEN hardware and software means that metering, monitoring and control can be provided for all included sites



2. Integrated energy solution (VEN)

- a VEN can utilise pre-existing renewable energy installations (e.g. solar PV) with new generation capacity to facilitate a comprehensive, flexible network.
- a VEN can include other local industry and community partners where additional generation and storage capability may be realised and used by network collaborators. e.g. social housing
- a VEN can expand to include local business', community groups and residential properties can also be included in a program if this is desired.



3. Community energy participant

- the ability to manage energy in an innovative manner (and offer attractive finance options where appropriate), can significantly assist in rapidly addressing net zero greenhouse gas emission reduction plan targets.
- ReThink Sustainability and its partner Circle Energy works with a team of specialist partners to deliver the VEN solution. These include: Leading Edge Energy, carbonTRACK, Verdia, Promontor, Electro Data & Generation and participating electricity retailers.

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<sup>1</sup> <https://www.aemo.com.au/-/media/files/electricity/der/2020/vpp-knowledge-sharing-stage-2.pdf>

<sup>2</sup> <https://www.energymagazine.com.au/aemo-vpps-can-alleviate-operational-challenges/>