

Voltage as a Service™ (VAAS™)

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- Voltage as a Service™ (VAAS™) is an alternative to the capital procurement solution for the supply, install, commission, operation and maintenance of a wide range of energy assets and services.
- VAAS™ deployments may include a wide class of energy assets, such as generation (PV and Wind), energy storage (Battery and EV Charging), DS/DG projects, Voltage Optimisation TX, Distribution TX, metering, cloud based monitoring (BMS and Energy Intelligence), switchgear, energy efficiency (including HVAC, CHP, LED Lighting, energy recovery) and other assets, under normal applicable terms and conditions.
- VAAS™ is a fully managed service requiring no capital investment by a client.
- VAAS™ has the lowest cost of ownership, and as a deployment solution outperforms lower priced basic Transformer (TX) technology or storage technologies as the superior Powerstar™ product delivers energy savings and CO2-e reduction throughout the equipment lifetime.

Voltage Optimisation

- The grid supplies high and variable voltages, which impair asset life, and cause increased energy use.
- VAAS™ Voltage Optimisation (VO) delivers controlled voltage with all of the benefits, primarily reduced energy, reduced CO2 and asset protection.

Guaranteed Energy Savings

- VAAS™ provides a Guaranteed percentage kWh reduction, which underwrites the service fees.
- In practice, this will ensure that the VAAS™ solution delivers a cash flow positive outcome for the Client.

About the Managed Service

- A Managed Service Agreement (MSA) is the service delivery model whereby customers subscribe to and purchase voltage management services.
- The solution is off balance sheet and is performance based for a 10-year/agreed term of the MSA.
- VAAS™ is unlike traditional transformer equipment investment, which is conventionally sold for an up-front cost and may have optional ongoing support fees.
- Project equipment deployment (including Powerstar™ VO) includes all installation, commissioning and fully serviced operations on entering into a Managed Service Agreement (MSA).

VAAS™ Fees

- VAAS™ is based on a capacity fee, and a performance fee reflecting voltage and energy performance.
- Client agrees to share a small share of any excess savings achieved above the Guaranteed savings
- Fees are periodic over the term of the MSA, and may be monthly or annual.

Conclusion

- The initial setup cost using VAAS™ is lower than any alternative equipment investment.
- Client can extend the MSA beyond 10-years (10+10 option).
- VAAS™ is offered with every proposal.

VAAS™ offers a superior outcome for all clients, and includes a guaranteed energy savings performance.

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powerstar
AUSTRALIA
100% GUARANTEED RESULTS

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Powerstar™ VO key product features

Note the following substantial highlights in evaluating Powerstar™ VO performance

- Guaranteed Performance/Energy Savings are provided (% kWh savings).
- Guaranteed CO2-e reduction performance is provided (% CO2 savings).
- Expected performance demonstrated at 125% consistently over Guaranteed Energy savings.
- Power factor enhancement can be typically improved by up to 20%.
- Maximum demand charges will be reduced by the typical energy savings reduction ratio.
- Harmonic mitigation, Powerstar™ by design will reduce harmonic distortion to/from the supply by 50% in the standard product. Additional mitigation windings may be optioned to reduce harmonics by 90% for triplen harmonics to the 7th harmonic.
- Protection against damaging transient voltages.
- Powerstar™ product is ISO 9001 & 14001 compliant.
- EC Declaration of Conformity is in accordance with BS/EN/IEC ISO 17050-1:2010 Voltage Optimiser.
- Full onsite training provided of the Powerstar™ product and function.
- Full Operational & Maintenance manuals provided in electronic form.

Powerstar's unique performance will deliver

- Superior and guaranteed financial outcomes.
- Energy and CO2 savings of typically 13% to 15% range.

Maintenance

- Maintenance and warranty is fully covered under all VAAS™ proposals, with no cost to the client during the term of the Managed Service Agreement.
- Powerstar™ has a 15-year warranty in Australia and 10-year warranty outside of Australia if product was purchased out-right by Client.

VAAS™ Scope

The Voltage solution may be extended to include a wide class of equipment and services, including:

- Renewable generation (PV, wind, geothermal)
- Energy storage
- Energy recovery
- Distribution and switchgear equipment
- Metering
- Energy efficiency solutions

Contact our sales office for further information.

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