SolShare design checklist

This checklist provides an overview of important design aspects to check when designing solar systems with SolShare. It is most effectively used in conjunction with the SolShare System & SLD Guide, which provides more detail on design considerations.

This checklist may not cover every aspect of your design as individual projects may require additional considerations. If you have further questions about SolShare, contact your Allume Technical Partnerships contact or info@allumeenergy.com.au. Further technical information about SolShare and how it is installed can be found in the Allume Resource Library.

Key design considerations

Each solar system installation with SolShare shall:

- ☐ Comply with all relevant regulations and standards
- ☐ Connect each SolShare to a dedicated three-phase inverter/s with a total maximum output current of 35A/phase
- ☐ Connect to each SolShare's outputs (can be a mix of single and three phase connections):
  - ☐ at most 5 connections on L1 (red) phase,
  - ☐ at most 5 connections on L2 (white) phase,
  - ☐ at most 5 connections on L3 (blue) phase
- ☐ Size SolShare output cables to carry the maximum output current per phase of the connected inverter/s, as at points in time, a SolShare may direct all current to one tenancy on each phase
- ☐ Utilise an isolation box for each SolShare to provide airgap isolation and a means to isolate SolShare
- ☐ Match the phase of each tenancy's solar supply to the phase of that tenancy's grid connection
- ☐ Locate the solar point of connection (POC) for each tenancy on the load side of that tenancy's *Tenancy Main Switch (Normal Supply)*
- ☐ Utilise a *Tenancy Main Switch (Inverter Supply)* for each tenancy with a solar connection
- ☐ Provide a single connection to neutral for each SolShare
- ☐ Provide a single connection to earth for each SolShare
- ☐ Utilise one SolShare CT per output connection (CTs provided with SolShare) to measure grid import/export for that tenancy (typically clipped between that tenancy's meter and its *Tenancy Main Switch (Normal Supply)*)

and where applicable:

- ☐ Utilise interface protection (typically at sites with total inverter output >30kVA)
- ☐ Locate emergency backstop-compliant metering solutions to measure the grid connection of the entire site (in locations that require emergency backstop)
- ☐ Locate battery CTs such that they most effectively measure the loads connected to that battery
- ☐ Size generation and allocate tenancies to SolShare outputs such that any target allocations of solar generation can most effectively be achieved (where specific tenancy solar allocations are required)

Additional installation considerations

Each solar system installation with SolShare shall:

- ☐ Provide clearances of at least 300mm above and 150mm below and to each side of each SolShare
- ☐ Provide a strong and stable 2.4GHz Wi-Fi network for each SolShare to connect to
- ☐ Utilise suitable glands at cable entry to maintain an IP-56 rating