

SolShare - Site suitability checklist

vA4

The SolShare is the key enabling technology allowing multiple tenancies in buildings such as apartment buildings and office blocks to share the benefits of a single rooftop solar system.

This document provides a high level checklist to help you ensure that the SolShare is a good fit for a potential project. If you have further questions, contact your Allume Technical Partnerships contact or sales@allumeenergy.com.au. Further technical information about the SolShare and how it is installed can be found on the [Allume Energy Document Library](#).

- Building is located in a DNSP area that has approved SolShare installations (see SLD Design Guidelines document)
- All units are on the same property title
- Building is not on an embedded network
- Building has unobstructed, accessible roof space suitable for solar panels (no significant shading, etc.)
- Building has access to bring solar panels to the roof, OR, that there is adequate space next to the building for a scissor lift or other method of bringing solar panels to the roof (and the owner/manager of that space is prepared to grant access to that space)
- Ideally, building is low or low/medium rise, with around 5-60 apartments (some buildings outside of these conditions may also be suitable)
- Each unit's average daytime power requirements are <10kW
- Electricity meters and Tenancy Main Switches (Normal Supply) for each unit and common light and power are ideally all co-located on a central meter panel / main switchboard (MSB), OR, alternatively, there are multiple distribution boards (DBs) with good access between them to lay cabling for SolShare (e.g., in established and easy-to-access risers)
- Wall space exists ideally adjacent to meter panel/MSB/DBs to mount SolShare/s. Other options for SolShare locations include electrical cupboards/rooms, risers, outdoor walls, on the roof, etc.
- A Wi-Fi network can be made available at the SolShare installation location

SolShare – Site Visit Notes

Here is space to write additional notes about the site from your site visit:

Item	Notes
<p>Access instructions for site <i>e.g., contact details of building manager, keycodes or key location, location onsite of MSB and stairs to roof or other important access areas</i></p>	
<p>Details of any existing solar PV onsite <i>e.g., size or kW PV, inverter make/model, any network protection already onsite, any SLDs, etc.</i></p>	
<p>Condition of existing MSB <i>e.g., available space in the MSB for CTs and Tenancy Main Switches (inverter supply) as part of a SolShare installation, will a switchboard upgrade be required?</i></p>	
<p>Condition of roof and access options to roof <i>e.g., condition may require structural engineering, waterproofing, Klip-lok, etc.</i> <i>e.g., access may require internal stairs, lifts, or if a scissor lift or similar would be required.</i></p>	
<p>Suitable physical locations for inverter/s and SolShare/s <i>e.g., in electrical cupboard, in riser, on outdoor wall, in a cage in common walkway area, etc.</i> <i>Note: SolShare is rated IP56 and is usually best placed as physically possible to the MSB or DBs as possible.</i></p>	
<p>Cable run options from roof to MSB / DBs <i>e.g., risers available (and room inside them), outdoor cable runs, etc.</i></p>	
<p>Public Wi-Fi options <i>e.g., owner's corporation onsite Wi-Fi networks, existing NBN connections where a Wi-Fi router can be added, strength of 4G at SolShare / inverter installation location.</i></p>	
<p>Essential / life-support loads onsite <i>e.g., any loads that would need to continually receive power during any shutdown while solar is installed.</i></p>	

SolShare – Quoting a Shared Solar System

Ensure you have considered these items when preparing proposals or quotations for multi-tenant solar customers:

Item	Required?	Impact to quote
Essential hardware costs (e.g., PV panels, racking, inverter/s, SolShare/s, cabling, cable trays/housing, switches, etc.)	Y	\$
Labour to install	Y	\$
Other hardware costs, e.g., solar optimisers for shading	Y / N	\$
Lifting equipment, e.g., scissor lift, to get PV panels/inverters/SolShares on the roof, (e.g., scissor lift)	Y / N	\$
DNSP application costs (e.g., interconnection application fees, special costs for negotiated contracts, witness testing fees, etc.)	Y / N	\$
Network protection (check local guidelines, typically required for sites exceeding 30kW in total regardless of number of NMIs, except in SA)	Y / N	\$
Main switchboard (MSB) and/or distribution board (DB) upgrades (to bring up to code, to allow space for CTs and/or Tenancy Main Switches (normal supply and inverter supply), etc.)	Y / N	\$
New walls/enclosures/cages/bollards/risers to mount or house any equipment (inverter/s, SolShare/s, cabling, etc.) safely and securely	Y / N	\$
Costs associated with providing a Wi-Fi network (e.g., extending NBN cabling, Wi-Fi router, 4G modem, etc.)	Y / N	\$
Back-up power options for essential / life-support loads during installation	Y / N	\$
Any roof upgrades or construction work required	Y / N	\$
Costs associated with Heritage Listing or similar protections (e.g., council applications, engineer or architect drawings, town planner approval, etc.)	Y / N	\$
Upgrades to smart meters for each tenancy / common area power	Y / N	\$
Other costs	Y / N	\$