

FREE PROJECT PLANNING RESOURCE

# Solar + BESS Site Survey Checklist

Use this checklist before requesting or comparing quotations. It helps your engineering team understand your load, site, backup expectations, and safety requirements before equipment is selected.

|                                                                                 |                                                                                     |                                                                               |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>Best for</b><br>Homes, offices, shops,<br>institutions, and commercial sites | <b>Primary outcome</b><br>A clearer load profile and a more<br>accountable proposal | <b>Next step</b><br>Share the completed checklist<br>with Pragmatic Solutions |
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## 1. Electricity and load profile

Collect recent usage information before deciding system or battery size.

|                                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Latest 6 to 12 electricity bills are available.                                       |
| <input type="checkbox"/> Average monthly units (kWh) are recorded.                                             |
| <input type="checkbox"/> Highest summer bill and highest recorded demand are noted.                            |
| <input type="checkbox"/> Daytime and night-time appliance use are listed separately.                           |
| <input type="checkbox"/> Essential backup loads are identified.                                                |
| <input type="checkbox"/> High-starting-current equipment is identified, such as pumps, compressors, or motors. |

## 2. BESS goals

Battery storage should be sized around a clear job, not treated as a generic add-on.

|                                                                                              |
|----------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Use stored solar at night.                                          |
| <input type="checkbox"/> Reduce dependence on WAPDA or DISCO supply.                         |
| <input type="checkbox"/> Avoid designing around electricity export as the primary benefit.   |
| <input type="checkbox"/> Support selected appliances during peak summer hours.               |
| <input type="checkbox"/> Maintain essential loads during load shedding or weak grid windows. |

☐ Plan future battery or solar expansion.

### 3. Site and installation conditions

A professional survey should confirm the physical installation environment.

☐ Roof, ground, carport, or structure area is measured.

☐ Shading sources are photographed at relevant times of day.

☐ Roof condition and structural limitations are reviewed.

☐ Safe access, lifting route, and equipment movement are planned.

☐ Inverter and battery locations are dry, ventilated, and serviceable.

☐ Cable routes, earthing points, protection devices, and distribution boards are reviewed.

### 4. Safety and documentation

Ask the contractor to make safety and handover evidence visible.

☐ PPE and site supervision requirements are agreed.

☐ Work-at-height risks and access controls are reviewed.

☐ First-aid readiness and emergency contacts are confirmed.

☐ Equipment makes, models, ratings, and serial records will be documented.

☐ Warranties, exclusions, and support responsibilities will be written clearly.

☐ Testing, commissioning, and client handover steps are included in the scope.

#### Ready for a site-specific review?

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