# Renewable Energy Ready Home Solar Photovoltaic Checklist

<table>
<thead>
<tr>
<th><strong>Home Location:</strong></th>
<th><strong>City:</strong></th>
<th><strong>State:</strong></th>
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<tbody>
<tr>
<td><strong>RERH Checklist</strong></td>
<td>(<strong>See Renewable Energy Ready Home (RERH) specifications for details</strong>)</td>
<td><strong>Builder Verified</strong></td>
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## 1 Building/Array Site Assessment

1. Designate a proposed array location and square footage on architectural diagram: ____________ sq. ft.  
2. Identify orientation (azimuth) of proposed array location: ____________ degrees.  
3. Identify inclination of proposed array location: ____________ degrees.  
4. Conduct a shading study documenting impacts on proposed array location: _________% adjusted annual shading impact.  
   - If using monthly values as verified through the solar path assessments, check here: ________.
5. Assess if proposed array location supports a solar resource potential of more than 75 percent of the optimal solar resource potential for the same location using the online RERH Solar Site Assessment Tool (SSAT).
   - Yes: This home meets the minimum recommended solar resource potential of 75 percent per the RERH SSAT results; continue with Section 2 below.
   - No: This home does not meet the recommended solar resource potential per the RERH SSAT results; this location is not a good host for a future solar energy system and should not be made renewable energy ready.

## 2 Structural and Safety Considerations: Solar Photovoltaics

2.1 Provide code-compliant documentation of the maximum allowable dead load and live load ratings of the existing roof; recommended allowable dead load rating can support an additional 6 lbs/sq. ft. for future solar system.

2.2 Install permanent roof anchor fall safety system (NA for roof pitch ≤ 3:12).

## 3 Renewable Energy Ready Home Infrastructure: Solar Photovoltaics

3.1 Install and label a 4’ x 4’ plywood panel area for mounting an inverter and balance of system components.

3.2 Install a 1” metal conduit for the DC wire run from the designated array location to the designated inverter location (cap and label both ends).

3.3 Install a 1” metal conduit from designated inverter location to electrical service panel (cap and label both ends).

3.4 Install and label a 70-amp dual pole circuit breaker in the electrical service panel for use by the PV system (label the service panel).

3.5 Provide architectural drawing and riser diagram of RERH solar PV system components.

## 4 Homeowner Education

4.1 Provide to the homeowner a copy of this checklist and all the support documents listed below (to be provided to future solar designer).

   - Copy of the Renewable Energy Ready Home Specification guide
   - Fully completed RERH checklist (all sections)
   - Architectural drawings detailing proposed array location and square footage
   - Electrical drawings and riser diagram of RERH PV system components that detail the dedicated location for the mounting of the balance components
   - Shading study with percent monthly or adjusted annual shading impact(s)
   - Site assessment record generated by the online RERH SSAT indicating that the proposed site meets a minimum solar resource potential of 75 percent of optimal
   - Code-compliant documentation of the maximum allowable dead load and live load ratings of the roof

4.2 Record electric utility service providers contact information:

   Electric utility service providers name and Web address:

## 5 Builder Best Practices (Optional Elements)

5.1 Develop a detailed landscape plan with a clear emphasis on low-growth vegetation

5.2 Place roof penetrations above or north of the proposed array to prevent casting shadows on the array location

**Builder Completion Date:**

**Builder Company Name:**

**Builder Employee Name:**

**Builder Employee Signature:**

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