

# Renewable Energy Ready Home Solar Photovoltaic Checklist

|   |   |                             |                             |                          |
|---|---|-----------------------------|-----------------------------|--------------------------|
| Home Location:  |   | City:                       | State:                      |                          |
| <b>RERH Checklist</b><br>(See Renewable Energy Ready Home (RERH) specifications for details)                              |   |                             | <b>Builder<br/>Verified</b> | <b>NA</b>                |
| <b>1 Building/Array Site Assessment</b>   |   |                             |                             |                          |
| 1.1   | Designate a proposed array location and square footage on architectural diagram: _____sq. ft.   |                             | <input type="checkbox"/>    |                          |
| 1.2   | Identify orientation (azimuth) of proposed array location: _____degrees.  |                             | <input type="checkbox"/>    |                          |
| 1.3   | Identify inclination of proposed array location: _____degrees.  |                             | <input type="checkbox"/>    |                          |
| 1.4   | Conduct a shading study documenting impacts on proposed array location: _____% adjusted annual shading impact.<br>If using monthly values as verified through the solar path assessments, check here: _____.  |                             | <input type="checkbox"/>    |                          |
| 1.5   | 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).<br><br>Yes <input type="checkbox"/> This home meets the minimum recommended solar resource potential of 75 percent per the RERH SSAT results; continue with Section 2 below.<br><br>No <input type="checkbox"/> 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. |                             | <input type="checkbox"/>    |                          |
| <b>2 Structural and Safety Considerations: Solar Photovoltaics</b>  |   |                             |                             |                          |
| 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.   |                             | <input type="checkbox"/>    |                          |
| 2.2   | Install permanent roof anchor fall safety system (NA for roof pitch $\leq$ 3:12).   |                             | <input type="checkbox"/>    | <input type="checkbox"/> |
| <b>3 Renewable Energy Ready Home Infrastructure: Solar Photovoltaics</b>  |   |                             |                             |                          |
| 3.1   | Install and label a 4' x 4' plywood panel area for mounting an inverter and balance of system components.   |                             | <input type="checkbox"/>    |                          |
| 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).  |                             | <input type="checkbox"/>    |                          |
| 3.3   | Install a 1" metal conduit from designated inverter location to electrical service panel (cap and label both ends).   |                             | <input type="checkbox"/>    |                          |
| 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).  |                             | <input type="checkbox"/>    |                          |
| 3.5   | Provide architectural drawing and riser diagram of RERH solar PV system components.   |                             | <input type="checkbox"/>    |                          |
| <b>4 Homeowner Education</b>  |   |                             |                             |                          |
| 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   |                             | <input type="checkbox"/>    |                          |
|   | - Fully completed RERH checklist (all sections)   |                             | <input type="checkbox"/>    |                          |
|   | - Architectural drawings detailing proposed array location and square footage   |                             | <input type="checkbox"/>    |                          |
|   | - Electrical drawings and riser diagram of RERH PV system components that detail the dedicated location for the mounting of the balance components  |                             | <input type="checkbox"/>    |                          |
|   | - Shading study with percent monthly or adjusted annual shading impact(s)   |                             | <input type="checkbox"/>    |                          |
|   | - 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  |                             | <input type="checkbox"/>    |                          |
|   | - Code-compliant documentation of the maximum allowable dead load and live load ratings of the roof   |                             | <input type="checkbox"/>    |                          |
| 4.2   | Record electric utility service providers contact information:<br>Electric utility service providers name and Web address:  |                             |                             |                          |
| <b>5 Builder Best Practices (Optional Elements)</b>   |   |                             |                             |                          |
| 5.1   | Develop a detailed landscape plan with a clear emphasis on low-growth vegetation  |                             | <input type="checkbox"/>    | <input type="checkbox"/> |
| 5.2   | Place roof penetrations above or north of the proposed array to prevent casting shadows on the array location   |                             | <input type="checkbox"/>    | <input type="checkbox"/> |
| Builder Completion Date:  |   | Builder Company Name:       |                             |                          |
| Builder Employee Name:  |   | Builder Employee Signature: |                             |                          |
| Interested in Solar Incentives? Please visit: <a href="http://www.dsireusa.org/solar/">http://www.dsireusa.org/solar/</a> |   |                             |                             |                          |