

# Renewable Energy Ready Home Solar Photovoltaic Checklist

Home Location:		City:	State:	
<b>RERH Checklist</b> (See Renewable Energy Ready Home (RERH) specifications for details)			<b>Builder 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. 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).  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.  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: 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>				