**Exhibit 21: Tier 1: Screening Tasks Prior to Site Visit** 

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Issue	Task	Key Considerations	Resource	Completed by	Outcomes
Roof	Determine age of roof	<ul> <li>The most viable projects have a new roof, one that is less than 2–3 years old, or are planning re-roofing.</li> </ul>		Owner	Roof is years old
		Roofs older than 8 years are not typically candidates for solar.			
	Determine warranty status of roof	Is the roof under warranty?		Owner	Roof under warranty?
		<ul> <li>If yes, what is the duration of the warranty? If yes, check how the warranty would be affected by a PV installation.</li> </ul>			○ Yes (duration:) ○ No
	Identify type of roof	Flat roofs are ideal.	Google Earth	Owner	Roof is: O Flat O Sloping
		<ul> <li>Sloping roofs may be appropriate if the slope faces south.</li> </ul>			
	Determine ease of structural attachment	If the roof is obscured by roof vents, penetrations, skylights, chimney stacks, or other structures that might shade or make installation difficult, the site typically is less desirable.	Google Earth	Owner	Multiple penetrations or structures?  Yes No
Solar Potential	Evaluate solar exposure	Southern exposure offers the greatest potential for solar gain.	Google Earth		Southern exposure?
					○ Yes ○ No
	Assess shade	<ul> <li>Large trees that shade the roof can obscure the needed sun.</li> </ul>			% unshaded solar access
		<ul> <li>95% unshaded solar access is ideal.</li> </ul>			current
		<ul><li>Evaluate tree growth during site visit.</li></ul>			% unshaded solar access future
Housing Units in	Count units in building	The larger the building the greater the common area electric load.		Owner	units in building
Multi-Family Properties		<ul> <li>Some solar developers/installers use a minimum of 50 units as a cut-off for economically viable multi-family projects.</li> </ul>			
Utilities	Determine price paid for electricity	<ul> <li>The more the owner pays for electricity the greater the potential benefit from a solar installation.</li> </ul>	Utility	Owner	Average cost of electricity is \$ per month

It is often helpful to provide information gathered during a Tier 1 screening activity to a potential solar provider to help it assess, with an owner, the likelihood that PV installation will be feasible and financially viable.

## **Exhibit 22: Tier 2: Screening Tasks During Site Visit**

Issue	Task	Key Considerations	Task to Be Completed by	Outcomes
Roof	Identify roof materials and layers of roofing materials		Solar Developer and Owner	Roof is made of and has layers
	Determine structural integrity of roof	<ul> <li>Flat roof (ideal): Steel frame truss joist system; short spans between load-bearing walls; poured concrete or steel roof structure.</li> <li>Sloping roof (ideal): Wood frame construction; rafters larger than 2x4; rafters less than 24 apart; show snow guards in schematic plans.</li> </ul>	Owner	Roof is: O Flat O Sloping Roof is structurally sound? O Yes O No Roof structure, describe:
	Evaluate roof penetrations	<ul> <li>Assess existing and planned roof penetrations (chimneys, parapets, vents) for shading and limits they may place on the size and number of panels.</li> </ul>	Solar Developer	# and type of penetrations:  Penetrations create shading or limit size of PV panels? O Yes O No
	Evaluate roof condition	<ul> <li>Confirm roof condition is good and structurally sound.</li> </ul>	Solar Developer	Roof is in good condition and structurally sound?  Yes No
	Evaluate roof mount conditions		Solar Developer	Roof height from ground: Orientation: Roof pitch: Ladder access: Attic access: Fire sprinklers in roof? O Yes O No
Solar Potential	Evaluate solar potential	<ul> <li>Use Solar Pathfinder or other appropriate readings to assess solar potential.</li> <li>Use in conjunction with online spreadsheet to calculate system sizing.</li> </ul>	Solar Developer	Solar potential is sufficient?  O Yes O No
	Evaluate shading	<ul> <li>Develop a tree plan to show types and ages of trees to assess how trees will grow over the next 20–30 years.</li> <li>Determine which if any trees may pose shading issues and who owns them.</li> </ul>	Solar Developer	Tree growth will not create shading issues?  Yes No If tree growth may create shading, owner able to cut trees? Yes No
Electricity	Evaluate current energy used and price paid	Review 12 months of energy bills to understand usage and costs	Owner	Average monthly energy usage iskWh  Average cost of electricity is \$ per month
	Evaluate connection issues and locations for electrical equipment	<ul> <li>Where to locate AC+DC run</li> <li>Service voltage</li> <li>Space for breaker</li> </ul>	Solar Developer	AC/DC run available?  Yes  No Service voltage OK?  Yes  No Beaker space available?  Yes  No

Issue	Task	Key Considerations	Task to Be Completed by	Outcomes
Building	Learn if the residence is under the jurisdiction of a homeowners association or other design review board, or is a historic building	May add complexity and delays to project implementation.	Owner	Building subject to design review? O Yes O No
	Determine existence of any code violations	<ul><li>Unpermitted remodels</li><li>Unpermitted structures</li><li>Unpermitted electrical work</li></ul>	Owner	Code violations? O Yes O No
	Determine if customer has drawings of the property or building	Having drawings will facilitate design.	Owner	Drawings of property or building? O Yes O No
	Learn if any other construction is planned for the near future	Construction might affect the roof or shading.	Owner	Construction planned? O Yes O No