

LEE'S SUMMITM | S | S | O | U | R | I | Photovoltaic System Permit Application and Checklist - For Residential Systems* ≤ 15 kW

Valuation: \$ 36671.64 (including parts & la	abor)
Project Address: 2385 NW Summerfield Dr., Lees S	Summit, MO, USA
Applicant's Company Name: <u>Ecovole</u>	Address: <u>1333 NW Vivion Rd, Kansas City MO</u>
Applicant's Contact: <u>Chelsea Mercurio</u>	Phone: 9252077048 Email: chelsea@ecovole.com
Installing Contractor's Company Name: <u>Ecovole</u>	Address: 1333 NW Vivion Rd, Kansas City MO
Installing Contractor's Contact: Chelsea Mercurio	Phone: <u>9252077048</u> Email: <u>chelsea@ecovole.com</u>
·	nformation below and acknowledge that all required documents ns in the required information will result in delays in the review
Signature: Chelsea Hencunío	Date: <u>4/22/2024</u>

How to complete this permit application:

- A . Fill out basic permit form per jurisdiction (this will either be an electrical or a building permit form).
- B. Complete Photovoltaic System Application and Checklist.
- C. Include site plan showing location of major components on the property. This drawing need not be exactly to scale, but it should represent relative location of components and show elevation. The site plan must also show compliance with International Fire Code minimum access and pathways. Additionally, include a photo that shows the proposed access point to verify compliance with IFC 605.11.3.1.
- D. Include electrical diagram showing PV array configuration, wiring system, overcurrent protection, inverter, disconnects, required signs, and AC connection to building.
- E. Include specification sheets and installation manuals (if available) for all manufactured components including, but not limited to PV modules, inverter(s), combiner box, disconnects, and mounting system.
- F. Inquire with the jurisdiction to find out the number of copies of components A-D should be submitted.

Steps to completing a photovoltaic project:

- Step 1 | Concurrently submit this permit application (see all necessary components, above) and the Net Metering/Interconnection Application to electric utility.
- Step 2 | Work can begin after the jurisdiction's permit is approved. Note: Some contractors will not begin work until the Net Metering/Interconnection Application is approved by the utility, although this is not a requirement.
- Step 3 | Notify jurisdiction when ready for inspection.
- Step 4 | Notify electric utility when inspection is passed.
- Step 5 | Electric utility will schedule its inspection and meter exchange.
- Step 6 | Electric utility will provide Permission to Operate (PTO)



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Structural Review of PV Array Mounting System:

Roof Information:

This section is for evaluating roof structural members that are site built. This includes rafter systems and site built trusses. Manufactured trusses and roof joist systems, when installed with proper spacing, meet the roof structure requirements as well.

1.	Is the array to be mounted on a defined, permitted roof structure? ☐ Yes ☐ No								
2.	Roof Age: Structure: \square < 5 yrs \boxtimes 5-10 yrs \square 20-30 yrs \square 30+ yrs								
	Covering: \square < 5 yrs \boxtimes 5-10 yrs \square 20-30 yrs \square 30+ yrs								
3.	·								
	(Yes = composition, lightweight masonry, metal, etc) (No = heavy masonry, slate, etc)								
4.	Does the roof have a single covering? ☑ Yes ☐ No								
5.	Provide method and type of weatherproofing roof penetrations (e.g. flashing, caulk)								
6.	Roof Construction: ☐ Rafters ☐ Trusses ☐ Other:								
7.	Describe rafter or truss system.								
	a. RafterSize: 2 x 6 inches								
	b. Rafter Spacing: inches								
	C. Maximum unsupported span: feet, inches								
8.	Are rafters or trusses in good condition, i.e. have not been adversely altered and no visible								
	damage? ☐ Yes No								
9.	Is the rafter or truss design unusual or abnormal? ☐ Yes ☒ No								
10.	. Are the rafters or trusses made out of non-standard materials? Yes No								
11.	1. Have the rafters or trusses been modified in any way (e.g. drilled holes, etc.)? ☐ Yes ☒ No								
Need	d a structural engineer's stamp: If you answered "No" to question #8 or "Yes" to any of the								



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(Structural Review of PV Array Mounting System—continued:)

Mounting System Information:

This section provides information on how the PV modules will be mounted to the roof. It is very important to have enough attachment points to adequately spread the dead load across as many roof-framing members as needed so that the point loads created at attachment points account for additional snow load (the Kansas City region has a 20 psf ground snow load).

12.		the mounting structure an engineered product designed to mount PV modules with no more than 8" gap beneath the module frames? Yes No							
will	be r	required by the loc	al jurisdiction issuing th	·	e design	structural engineer's stamp for uplift including system cessary.			
13.	Fill	out information on t	he mounting system be	elow:					
		Mounting System Total Weight of P Total Number of Weight Per Attac Maximum Spacin manual for maxim proper weight dis	Manufacturer <u>Sunn</u> V Modules and Rails Attachment Points _ hment Points (b÷c) _ g Between Attachment spacing allowed stribution: For each	nodo Product Name 8 892.8 39 22.89 ent Points on a Rail de based on maximun successive rail, attac	_ lbs _ lbs _ 24 n design	inches. <i>See produc</i> wind speed. <u>To ensure</u> points should occur on rail			
	f.	ends and then should be staggered based on 16" or 24" on center rafter spacing. Total Surface Are of PV Modules (square feet) 380.16							
	g. h.	Distributed Weig Mounting Frame	nt of PV Module on	Roof (b÷f) <u>2.35</u> □ Self-Balla					
14.	Туре	: SS lag bolt	Size:	Number:		<u> </u>			
			inches						
15.	Addi	tionally, please attac			spacing,	number of attachment points,			

Electrical Review of PV System (Calculations for Electrical Diagram)

In order for a PV system be processed using this application, the following must be true:

- PV modules, utility-interactive inverters, and combiner boxes are identified for use in PV systems. 1.
- 2. The PV array is composed of four(4) series strings or less per inverter.
- The AC interconnection point is on the load side of service disconnecting means (690.64(B)) 3.
- A standard electrical diagram can be used to accurately represent the PV system.