

EXPRESS PERMIT PROCESS FOR SMALL-SCALE PV SYSTEMS SUPPLY-SIDE CONNECTION

Required Information for Permit:

- 1. 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 at site (see supplied example site plan). PV arrays on dwellings with a 3' perimeter space at ridge and sides may not need separate fire service review.
- 2. Electrical diagram showing PV array configuration, wiring system, overcurrent protection, inverter, disconnects, required signs, and ac connection to building (see supplied standard electrical diagram).
- 3. 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.

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Step 1: Struct	ural Review of PV Array Mounting System
Is the array to b	be mounted on a defined, permitted roof structure? \square Yes \square No
If No due to non-	compliant roof or a ground mount, submit completed worksheet for the structure WKS1.
Roof Informat	ion:
1. Is the ro	oofing type lightweight (Yes = composition, lightweight masonry, metal, etc)
If No, submit co	npleted worksheet for roof structure WKS1 (No = heavy masonry, slate, etc).
	e roof have a single roof covering? \square Yes \square No
-	npleted worksheet for roof structure WKS1.
Provide	method and type of weatherproofing roof penetrations (e.g. flashing, caulk)
Mounting Sys	tem Information:
beneath	nounting structure an engineered product designed to mount PV modules with no more than an 18" gap at the module frames? \square Yes \square No tails of structural attachment certified by a design professional.
-	nufactured mounting systems, fill out information on the mounting system below:
	Mounting System ManufacturerProduct Name and Model#
	Total Weight of PV Modules and Railslbs
C.	Total Number of Attachment Points
d.	Weight per Attachment Point (b ÷ c)lbs (if greater than 45 lbs, see WKS1)
e.	Maximum Spacing Between Attachment Points on a Railinches (see product manual for maximum spacing allowed based on maximum design wind speed)
f.	Total Surface Area of PV Modules (square feet) ft ²
g.	Distributed Weight of PV Module on Roof (b \div f) lbs/ft ²
	If distributed weight of the PV system is greater than 5 lbs/ft², see WKS1.

Step 2: Electrical Review of PV System (Calculations for Electrical Diagram)

In order for a PV system to be considered for an expedited permit process, the following must apply:

- 1. PV modules, utility-interactive inverters, and combiner boxes are identified for use in PV systems.
- 2. The PV array is composed of 4 series strings or less per inverter.
- 3. The total inverter capacity has a continuous ac power output 13,440 Watts or less
- 4. The ac interconnection point is on the load side of service disconnecting means (690.64(B)).
- 5. One of the standard electrical diagrams (E1.1, E1.1a, E1.1b, or E1.1c) can be used to accurately represent the PV system.

Fill out the standard electrical diagram completely. A guide to the electrical diagram is provided to help the applicant understand each blank to fill in. If the electrical system is more complex than the standard electrical diagram can effectively communicate, provide an alternative diagram with appropriate detail.



404.371.2155 (o) 404.371.4556 (f) DeKalbCountyGa.gov Clark Harrison Building 330 W. Ponce de Leon Ave Decatur, GA 30030

Chief Executive Officer

DEPARTMENT OF PLANNING & SUSTAINABILITY

Director

Andrew A. Baker, AICP

Fill out the standard electrical diagram completely. A guide to the electrical diagram is provided to help the applicant understand each blank to fill in. If the electrical system is more complex than the standard electrical diagram can effectively communicate, provide an alternative diagram with appropriate detail.

Step 3: Complete Solar Permit Application on the next two pages and sign. Include completed diagrams on pages four, five and six. Complete Tree Affadavit.

Step 4: Submit the application, supporting manufacturer's data, Photovoltaic Tree Affidavit and NABSEP certification via an email to Loraine Bell at: lbell@dekalbcountyga.gov or in person at 330 West Ponce De Leon Avenue, 2nd floor, Decatur, GA 30030.

Once approved, submit for an electrical trade permit online at: http://63.170.23.47/DP1/Metroplex/DekalbCounty/permit/WIZ_APWELCOME.asp



Clark Harrison Building 330 W. Ponce de Leon Ave Decatur, GA 30030



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Shaded area for office use only							
Permit Number		Da	te Processed				
PROJECT NAME / SUBDIVISION NAME						NUMBER	OF UNITS
PROJECT ADDRESS			City		State		Zip
Building #	Floor #	Apt	#	Suite #		Lot #	
PROPERTY OWNER'S NAME							
Address							
Phone	Mot	oile		F	эх		
Email							
	☐ Tenant Leas	sing Commercial	Space □ Cor	ntractor [Authorized Ag	ent [☐ Architect/Engineer
Applicant's Name							
Company Name							
Address							
Phone	Mot	oile		F	ах		
Email							
Contractor Property Owner	□ To Be De	etermined	☐ State of GA L	icensed Elec	trical Contractor	. [☐ Specialty Contractor
Contractor's Name							
Company Name							
Address							
Phone	Mok	oile		F	эх		
Email	1			Business Li	cense Number		
Individual / Authorized Agent's State Licer	nse #			Company's	State License #		
NABSEP Certification #				#			
			•				

FIXTURE FEE SCHEDULE

MINIMUM FEE \$100 + \$20 Technology Fee

TOTAL NUMBER OF SOLAR PANELS	COMMERCIAL OR RESIDENTIAL INVERTER RATING
RESIDENTIAL INVERTER NO AT \$2.00 EA. = COMMERCIAL INVERTER NO AT \$2.50 EA. =	LESS THAN 1 KW NO AT \$ 8.00 = 1.0 TO 3.5 KW NO AT \$10.00 = 4.0 TO 10 KW NO AT \$12.00 = 10.5 TO 25 KW NO AT \$15.00 = OVER 25 KW NO AT \$20.00 =
ELECTRICAL INSPECTION/RE-INSPECTION FEES	RESIDENTIAL / COMMERCIAL SUB FEEDS TO PANEL – FROM AC DISCONNECT
1 st Re-inspection - \$25.00 2 nd Re-inspection - \$50.00 3 rd and after \$100.00	NO AT \$20.00/A =
	Less than 1 HP \$ 6.00 20.5 to 59 HP \$25.00 1 to 5 HP \$ 8.00 60 & over \$30.00 plus 5.5 to 10 HP \$10.00 \$.03/HP ove 10.5 to 20 HP \$14.00
TOTAL OF ALL I	EES»»»»»» \$
obtain an Electrical Solar / Building Permit. I underst application, I may be subject to criminal prosecution and issued as a result of this application. I understand that I me	d that no false or misleading statement is submitted herein to and that if I provide false or misleading information in thi I/or immediate revocation of any Electrical / Building Perminst comply with all County Ordinances and regulations. I hereby ort(s) required prior to the issuance of an Electrical Solar
whichever shall be earlier, for all injury or damage of any additional services, to persons or property. I agree to exon all claims or actions, and all expenses incidental to the de	this permit, or from the time of the beginning of the first work kind resulting from this work, whether from basic services of erate, indemnify and save harmless the County from and against fense of any such claims, litigation, and actions, based upon ones or property caused by or sustained in connection with any a result of this application.
Signature	 Date

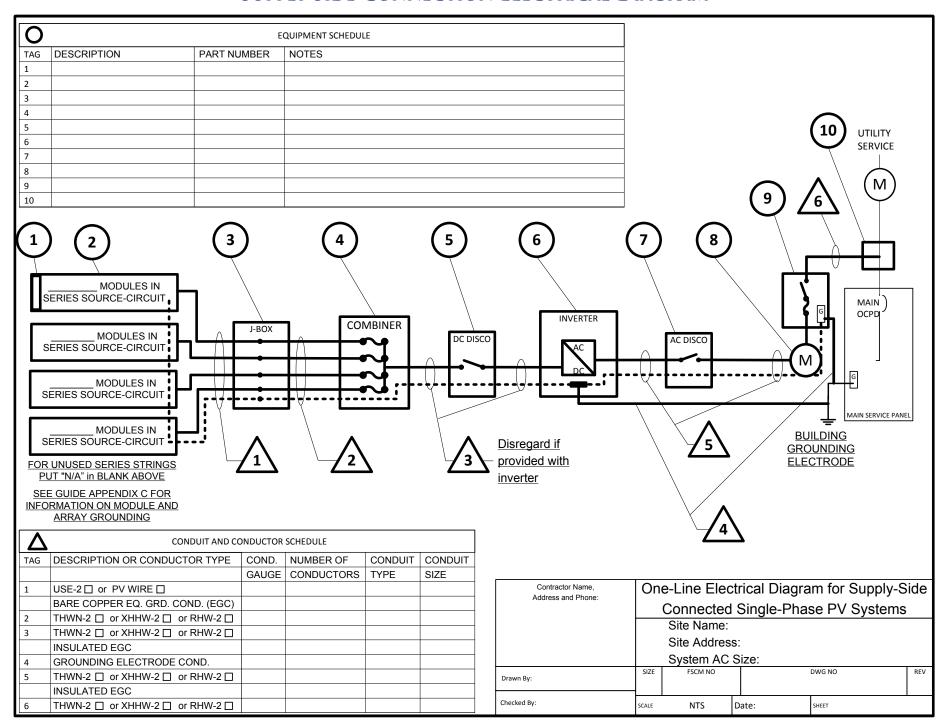
Total Minimum Fees \$245.00 (\$175.00 Minimum Permit Fee; \$20.00 Technology Fee; \$50.00 Certificate of Occupancy or Certificate of Completion). Please note that additional fees may apply depending on the type of permit being submitted. Please contact us at (404) 371-4915 for the calculation of fees, or refer to our fee schedule located at http://www.dekalbcountyga.gov/planning-and-sustainability/planning-sustainability.

' SYSTEMS
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FOR
PROCESS FOR
PERMIT]
EXPEDITED

Contractor Name, Address and Phone:	Site Plan						
Address and Friend.	for Small-Scale, Single-Phase PV Syster					ns	
	Site Name:						
	Site Address						
	System AC Size						
Drawn By:	SIZE	FSCM NO			DWG NO	REV	
Checked By:	SCALE	NTS	Di	ate:	SHEET		

EXPEDITED PERMIT PROCESS FOR PV SYSTEMS

SUPPLY-SIDE CONNECTION ELECTRICAL DIAGRAM



NOTES FOR SUPPLY-SIDE CONNECTION ELECTRICAL DIAGRAM

PV MODULE RATINGS @ STC (Guide Section 5)

MODULE MAKE		
MODULE MODEL		
MAX POWER-POIN	NT CURRENT (I _{MP})	А
MAX POWER-POIN	NT VOLTAGE (V _{MP})	V
OPEN-CIRCUIT VO	V	
SHORT-CIRCUIT C	А	
MAX SERIES FUSE	А	
MAXIMUM POWER	W	
MAX VOLTAGE (T)	V	
VOC TEMP COEFF		
IF COEFF SUPPLIE	ED, CIRCLE UNITS	

NOTES FOR ALL DRAWINGS:

OCPD = OVERCURRENT PROTECTION DEVICE

NATIONAL ELECTRICAL CODE® REFERENCES
SHOWN AS (NEC XXX.XX)

INVERTER RATINGS (Guide Section 4)

		•
INVERTER MAKE		
INVERTER MODEL		
MAX DC VOLT RATII	NG	V
MAX POWER @ 40°0	W	
NOMINAL AC VOLTA	AGE	V
MAX AC CURRENT		А
MAX OCPD RATING		А

SIGNS-SEE GUIDE SECTION 7

SIGN FOR DC DISCON	<u>INECT</u>					
PHOTOVOLTAIC POWE	PHOTOVOLTAIC POWER SOURCE					
RATED MPP CURRENT	А					
RATED MPP VOLTAGE	V					
MAX SYSTEM VOLTAGE	V					
MAX CIRCUIT CURRENT	А					
WARNING: ELECTRICAL SHOCK HAZARD-LINE AND LOAD MAY BE ENERGIZED IN OPEN POSITION						
SIGN FOR INVERTER O	SED)					
SOLAR PV SYSTEM AC POINT OF CONNECTION						
AC OUTPUT CURRENT	А					
NOMINAL AC VOLTAGE	V					

THIS PANEL FED BY MULTIPLE

SOURCES (UTILITY AND SOLAR)

NOTES FOR ARRAY CIRCUIT WIRING (Guide Section 6 and 8 and Appendix D):

- 1.) LOWEST EXPECT AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP °C
- 2.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMPERATURE _______°C
- 2.) 2005 ASHRAE FUNDEMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES).
- a) 12 AWG, 90°C CONDUCTORS ARE GENERALLY ACCEPTABLE FOR MODULES WITH Isc OF 7.68 AMPS OR LESS WHEN PROTECTED BY A 12-AMP OR SMALLER FLISE
- b) 10 AWG, 90°C CONDUCTORS ARE GENERALLY ACCEPTABLE FOR MODULES WITH Isc OF 9.6 AMPS OR LESS WHEN PROTECTED BY A 15-AMP OR SMALLER FUSE.

NOTES FOR INVERTER CIRCUITS (Guide Section 8 and 9):

REQUIREMENT? YES ☐ NO ☐ N/A ☐

2) IF GENERATION METER REQUIRED, DOES THIS METER SOCKET MEET THE REQUIREMENT? YES $\hfill\Box$ N/A $\hfill\Box$
3) SIZE PHOTOVOLTAIC POWER SOURCE (DC) CONDUCTORS BASED ON MAX CURRENT ON NEC 690.53 SIGN OR OCPD RATING AT DISCONNECT
4) SIZE INVERTER OUTPUT CIRCUIT (AC) CONDUCTORS ACCORDING TO INVERTER OCPD AMPERE RATING. (See Guide Section 9)

1) IF UTILITY REQUIRES A VISIBLE-BREAK SWITCH, DOES THIS SWITCH MEET THE

5) TOTAL OF	INVERTER OCPD(s),	ONE FOR EACH INVE	ERTER. DOES TOTA
SUPPLY BREAKERS	COMPLY WITH 120%	BUSBAR EXCEPTION	N IN 690.64(B)(2)(a)?
YES D NO D			()()()

Contractor Name, Address and Phone:	Notes for One-Line Standard Electrical						
	Diagram for Single-Phase PV Systems						
	Site Name:						
	System AC Size:						
Drawn By:	SIZE	FSCM NO	DWG NO		DWG NO	REV	
Checked By:	SCALE	NTS	Date:		SHEET		

DEKALB COUNTY ARBORIST - PHOTOVOLTAIC TREE AFFIDAVIT

DEKALB COUNTY DEPARTMENT OF PLANNING AND SUSTAINABILITY

Date:	
Property Owner(s):	-
Project Address:	
Please check or or more initial one of the following:	
I certify that no trees will be removed or pruned for the installation of PV sys	stem.
I understand that no more than 20% (twenty percent) of the live canop Pruning/removing up to 20% (twenty percent) of the live canopy must not make or unbalanced. Proper pruning cuts must be made in accordance to ANSI standards.	e the tree lopsided
I certify that I am removing up to five (5) healthy trees on your property per the installation of PV system, <i>provided that those trees are not specimen trees</i> .	r calendar year for
NOTE: The DeKalb County Ordinance Section 14-39 9(g) (8) defines a specimen tree as A specimen tree is defined as a tree with a life expectancy of 15 years or more, relat no extensive decay or hollow and less than 20% trunk dieback. No major insect or pat addition to a specimen tree must meet the following size guidelines:	
 For Overstory (large) trees, ex.: Oak ,poplar & pine- diameter at breast height ground) is greater than or equal to 30 inches (which equates to a circumference of the control of the contro	
 For Understory (small) trees, ex: Dogwood - diameter at breast height (4 ½ feet ugreater than or equal to 10 inches (which equates to a circumference of 31.4 inch 	
I understand that if I provide false or misleading information in this for violation of the DeKalb Tree Protection Ordinance and will be subject to and penalties set forth therein. I hereby affirm that the information provided is true and accurate. I hereby affirm that an application does not constitute approval for any other permit that may be required by other agency having jurisdiction.	pproval of this
I, (Owner's / Contractor's Signature), attest that, to the best of my knowledge, all of the above information is true.	
Sworn to and subscribed before me this day of, 20	
Signature of Notary Public My Commission Expires	
	Notary Seal

Relationship to project (Circle): Property Owner Contractor Design Professional