

Building Permit

Solar System Permits

Listed below is the information that needs to be provided to submit a complete application for a **solar system** building permit. Staff will not process incomplete applications.

SUBMITTAL REQUIREMENTS

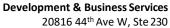
- Completed and signed building and electrical permit application form, including proof of a valid State Contractor's License and a City of Lynnwood Business License, if applicable.
- Location of all components must be indicated on one or more drawings.
- A satellite picture with the arrays drawn in would be acceptable if the scale of the drawing is legible.
- Cutsheets for all materials being installed is required. Cutsheets for the mounting hardware for mounting the array rails to the roof is required and may only be changed ifa revision is submitted prior to installation
- Completed "Review Permit Process for PV Systems" packet, including:
 - -Checklist
 - -Site Plan
 - -Electrical Diagram
 - -Specification Sheets
 - -Installation Manuals, if available

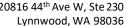


Development & Business Services 20816 44th Ave W, Ste 230 Lynnwood, WA 98036

www.LynnwoodWA.gov/DBS

For City Use Only:		Building Permit Application				
Permit Number:						
Associated Permit	Number:	umber:			Date Stamp	
			pplication, submittal c			
Check all that appl	y:					
Residential	Commercial /	Multi Family	☐ Tenant Improvement		☐ New Construction	
☐ Addition	☐ Plumbing		☐ Mechanical		Repair	
☐ Sign	☐ Fire Suppress	ion / Sprinkler	Other:			
The SPCC & SWP	odwa.gov/Gove	SWPPP (Sto	Prevention, Control and orm Water Pollution Prevention Prevents of the Prevention Prevents of the Prevents of	ention nmenta	Plan)	
Contract Valu	Je (Excluding	Sales Tax)	\$			
SITE INFORMA	ATION:					
Site Address:						
Scope of Work:						
PROPERTY OV	WNER INFO	RMATION:				
Property Owner(s	s) Name:					
Address, City, Sta	ate & Zip:					
Email Address:						
Contact Phone No	umber:					





www.LynnwoodWA.gov/DBS



Tenant/Occupant Name: Address, City, State & Zip: Email Address: Contact Phone Number: CONTRACTOR INFORMATION: Contractor Name: Address, City, State & Zip: Email Address: Contact Phone Number: State Contractor's License Number (L&I) Unified Business Identifier (UBI) Number: PRIMARY CONTACT INFORMATION: Contact Person Name: Address, City, State & Zip: Email Address: Contact Phone Number: ARCHITECT / ENGINEER INFORMATION: Contact Person Name: Address, City, State & Zip: Email Address: Contact Phone Number:	TENANT/OCCUPANT IN	FORMATION:
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Contact Person Name: Address, City, State & Zip: Email Address:	Contact Phone Number:	
Address, City, State & Zip: Email Address:	ARCHITECT / ENG	GINEER INFORMATION:
Email Address:	Contact Person Name:	
	Address, City, State & Zip:	
Contact Phone Number:	Email Address:	
	Contact Phone Number:	

PLUMBING FIXTURES / CONTRACT VALUE

Fees for single-family or duplex residential buildings are calculated by the number of fixtures. The first 4 fixtures are 175.00 and any fixtures over 4 is \$15.00 perfixture.

Fees for all other buildings, including but not limited to commercial, institutional, or residential complexes of 3 units or more, are all calculated by contract amount.



NOTICE / ACKNOWLEDGEMENT

- I am the owner or the owner's agent and have permission to apply for this permit.
- I am aware that my permit will become null and void if the authorized work has not been inspected within 180 calendar days of issuance or for a period of 180 calendar days from the last inspection.
- I am aware that a one-time extension may be granted if a written request is submitted in writing/email to the building official showing just cause, prior to the expiration date.
- I have read and examined this application and know the information provided to be true and correct.

Print Name of Owner/Agent:	Date:
•	
Signature of Owner/Agent:	Date:



Electrical Permit Application

For City Use Only:				
Permit Number:				
Associated Permit Number:				Date Stamp
Please read and follow all instr supplemental forms carefully.				
Please check all that apply:				
Residential	☐ Commercia	I	□ Ме	dical, Institutional or School Facility
Please complete as applicable:	1		I	
New Building amps	Additional:	amne		☐ Tenant Improvement
	<u> </u>			
Temporary Poweramps	☐ Service Change			# of New Circuits
☐ Limited Low Voltage	☐ Portable Classro	oom / Mob	ile Home	∐ Sign
☐ Pool, Hot Tub, Sauna or Spa	☐ Carnival - # of C	Concession	ns	☐ Fire Alarm
Contract Value (exclud	ling sales tax)			
SITE INFORMATION:				
Site Address:				
Scope of Work:				
PROPERTY OWNER INF	ORMATION:			
Property Owner(s) Name:				
Address, City, State & Zip:				
Email Address:				
Contact Phone Number:				



Electrical Permit Application

OVER THE COUNTER (OTC) COMMERCIAL QUALIFICATION CHECKLIST

is the occupancy defined as any of the follo	∐ Yes	L				
Hospital	Nursi	ng Home Unit or Long-Term Car	re Unit			
Ambulatory Surgery Facility	Ambulatory Surgery Facility Renal Hemodialysis Clinic					
Boarding Home	Resider	ntial Treatment Facility for Psych	niatrically			
Assisted Living Facility		Impaired Children and Youth				
Private Psychiatric Hospital	Adı	ult Residential Rehabilitation Ce	nter			
Maternity Home		Education Facility				
Institutional Facility Private Alcoholism Hospital / Alcoholism Treatment Facility					1	
If you answered " <u>Yes</u> " then will this s	scope of work inc	lude: At least one "Yes" requ	uired for	• отс	;	
A lighting specific project that results in an electrical load	I reduction on each fee	der involved in the project?		Yes	☐ No	
A low voltage system?				Yes	□ No	
 A modification to an existing installation where ALL CONDITIONS ARE TRUE: Service or distribution equipment involved is rated less than 100 amperes and does not exceed 250v. Does not involve emergency systems other than listed unit equipment per NEC 700.12(F). Does not involve branch circuits or feeders of an essential electrical system as defined in NEC 517.2. 				Yes	□ No	
If you answered " <u>No</u> " please answer	the following que	stions: All answers must be	"No" fo	r OT	C	
Is this work an installation or alteration to a service feede	er rated 100 amperes o	r greater?	☐ Yes		□ No	
Are more than 100 amperes being added to the service	or feeder?		☐ Yes		□ No	
Is this a commercial generator installation or alteration?			☐ Yes		□ No	
Is all work on the electrical system operating at or over 600 volts?					□ No	
Is 60% or more of luminaires changing and is there an increase in the lighting load?					□ No	
Is this work in an area that has been determined to be a hazardous (classified) location by the NEC?			□ No			
Is this an installation of a switch or circuit breaker rated 400 amperes or more?					□ No	
Is this a solar photovoltaic system?					□ No	

NOTICE:

Inaccurate information indicated on this checklist may result in the need for plan review. If upon inspection, it is discovered that your scope of work does not match the work indicated on this worksheet, you may be issued a Stop Work Order and will cease work until plans have been submitted, reviewed, approved, and issued.



Electrical Permit Application

TENANT/OCCUPANT INFORMATION:

Tenant/Occupant Name:				
Address, City, State & Zip:				
Email Address:				
Contact Phone Number:				
CONTRACTOR INFORM	//ATION:			
Contractor Name:				
Address, City, State & Zip:				
Email Address:				
Contact Phone Number:				
State Contractor's License N	lumber (L&I):			
Unified Business Identifier (UBI) Number:			
PRIMARY CONTACT IN	IFORMATIO	N:		
Contact Person Name:				
Address, City, State & Zip:				
Email Address:				
Contact Phone Number:				
NOTICE / ACKNOWLED • I am the owner or the owner.		d have permission to	o apply for this permit.	
 I am aware that my perr within 180 calendar day I am aware that a one-ti the building official show 	nit will become is of issuance or me extension mixing just cause,	null and void if the a for a period of 180 on any be granted if a w prior to the expiration	uthorized work has not been insp calendar days from the last inspec ritten request is submitted in writi	ction. ng/email to
Print Name of Owner/Agent:_			Date:	
Signature of Owner/Agent:			Date:	

• Short circuit current of the PV system.

e electrical one-line diagram must be used to accurately represent the electrical components of the solar system and shall include:
The correct conductor sizing based on the ambient temperature, number of conductors, and distance of conduit off the roof.
The correct "Output circuit" conductors sizing from the combiner to the inverter based on the number of strings multiplied by the "Max amps."
Where a combiner box is installed, or where more than two strings of modules are electrically connected together in "parallel," each individual string shall be protected by its own overcurrent protection device or feeders are for the sum of the short circuit current of all strings. The fuse or breaker shall be listed as being suitable for use in a DC circuit and shall meet or exceed the maximum voltage of the circuit. The rating of the fuse or circuit breaker shall not be larger than the maximum size specified on the lowest rated module in the string.
Per NEC Section 690.31(E), metallic raceway and enclosures must be used where DC wiring is installed inside of the house.
Grounding on the DC side of the inverter requires a minimum #8 copper grounding electrode conductor run un-spliced from the factory identified system grounding terminal of the inverter to the grounding electrode system of the house.
The inverter shall be listed and labeled by a recognized electrical testing laboratory and be identified as "Utility interactive."
Inverter ground fault protection (GFP) shall comply with NEC 690.5.
A performance meter and a safety disconnect switch may be required to be installed between the PV power source and the electrical utility equipment. Contact the local serving utility for requirements. Where a performance meter is required by the local utility to record the power produced by the PV system, the output wiring from the inverter shall always connect to the "LINE" side terminals of the meter.
Where disconnect switches (with or without fuses) are installed in the circuit from the inverter output terminals to the house electrical panel, the wiring originating at the inverter(s) shall always connect to the "LOAD" side terminals of ANY disconnect that has been installed.
The connection to the service panel shall be through a dedicated circuit breaker that connects to the panel bus bars in an approved manner.
"Load Side Taps" where the inverter AC wiring does not terminate using a dedicated breaker or set of fuses are prohibited under ANY condition by NEC 690.64(B).
The location of the PV backfed breaker must be identified per 690.64(B)(7) with the following verbiage: "WARNING INVERTER OUTPUT CONNECTION. DO NOT RELOCATE THE OVERCURRENT DEVICE."
Where it is not possible to locate the PV breakers at opposite ends of the panel bus, the sum of the two PV breakers is not permitted to exceed 100% of the bus rating per NEC690.64(B)(7)
Per NEC 690.53, a permanent label for the DC power source shall be installed at the PV DC disconnecting means. This label shall show the following:
 Rated maximum power-pointcurrent. Rated maximum power-pointvoltage. Maximum system voltage.

TAG		EQUIPME	ENT SCHEDULE			Conti	ractor - Installe	
	SOLAR PV MODULE	MAKE.	MODEL:	(Attach Cut Sheet	- See notesfor ratings)	Permit #:		Date:
2	PV ARRAY		ROM ROOF:	`	et of mounting system)	Name:		
3	J-BOX	LENGTH WIDTH:		NEMA RATI		Address:		
4	COMBINER		MODEL.	TVEND CTO CTI	(Attach cut sheet)			
5	DC DISCONNECT	VDC DC AMP:	MAKE.		(Contact Name:		
6	DC/AC INVERTER	MAKE:		(Attach cut sheet	- See notes for ratings)	Contact Phone:		
7	AC DISCONNECT	VAC: AMPS:	MODEL:			Email:		
8	PRODUCTION METER	METER #:	(Check with servi	ng utility for meter red	quirements & location)			
9	SERVICE PANEL	VAC: MAIN OCPD:	BUS AMP:	INVERTE	R OCPD:	M	eter#	LITIL ITY WETER
;	MODULES IN SERIES SOURCE-C) RCUIT MODULES IN * SERIES SOURCE-C) RCUIT MODULES IN SERIES SOURCE-CIRCUIT	J-BOX e	COMBINER	DC DISC	INVERTER C I—III	AC DISC	W	MAIN OCPD ++ INVERTER OCPD
FO	SERIES SOURCE-CIRCUIT RUNUSED SERIES STRING PUIT "IN//A" im BLANNK ABOXE		Fus	se S e	V EC ie		4 G	BUILDING ROUNDING LECTRODE

	\wedge	Conductor	CU/AL	/ ondUCtOfV		tOfV "Debated		Race	ewa y	Ambie	ent Temp	DI5lance off	
	ros	Insulation Type	Lacatoric	••	Amps	Num	AmQS	Size	Туре	Roof	AttiC	Roof	
	1												
	2												
	3												
	4												
- 1	A No	te herating of conductors based	on numb	er of con	Ouctois i	n racewa	v amhient i	emn and	distance o	ff roof whe	re annlica	ble fNFC 3	70 T5/

A Note. berating of conductors based on number of con0uctois in raceway. ambient temp and distance off roof where applicable. fNEC 370. T5/1++ Note. Conductors and overcurrent devices shBll be sized to cafny not less thafi ?25 percent of "/lJ'e ms'x/"mum clJren/s. fj",/EC 690.BAB))

Standard Electrical Diagram - Residential Small Scale PV System C:entrai Inverter Systems

THIS PLAN MUST BE PROVIDED TO THE INSPECTOR AT THE JOB SITE

Site Name:

Site Address.'

This plan is NOT intended to be used wirh micro inveners or transformer-less inverters. Conductors, where installed outdoors in raceways shall be "W" rated and ha ve an insulation rating of 90 deg C.

Rev - 02/2 1/2013

NOTES for Residential Small Scale PV System Electrical Diagram				
Permit #:	Date:			
Contracto r:				
Job Address:				
Contact Na me.				
Contact Phon e				

SIGNS

SIGN FOR DC D) UCONNECT

PHOTOVOLTAIC POWER SOURCE					
RATED MPP CURRENT	A				
RATED MPP VOLTAGE	٧				
MAX SYSTEM VOLTAGE	٧				
MAX CIRCUIT CURRENT	A				
WARNING! ELECTRICAL SHOCK					

HAZARD—LINE AND LOAD MAY BE ENERGIZED IN OPEN POSITION

SIGN FOR INVERTER OCPD AND AC DISCONNECT (IF USED)

SOLAR PV SYSTEM AC POINT OF CONNECTION					
AC OUTPUT CURRENT A					
NOMINAL AC VOLTAGE V					
THIS PANEL FED BY SOURCES (UTILITY A					

PV MODULE RATINGS

MODULE MAKE		
MODULE MODEL		
MAX POWER-POIN	NT CURRENT (I)	A
MAX POWER-POIN	NT VOLTAG E (V)	V
OPEN-CIRCUIT \	/OLTAGE (V q)	V
SHORT-C IRCUIT CURRENT (I)		A
MAX SERIES FUSE (OCPD)		A
MAXIMUM POWER	W	
MAX VOLTAG E (TYP 600V,,)		V
VOC TEMP COEFF (mV/°Cp or °A/°C p)		
IF COEFF SUPPLI	ED, CIRCLE UNITS	

INVERTER RAT) NGS

INVERTER MAKE		
INVERTER MODEL		
MAX DC VOLT RATIN	NG	V
MAX POWER @ 40°C		W
NOMINAL AC VOLTAGE		V
MAX AC CURRENT		А
MAX OCPD RATING		А

LOWEST EXPECTED AMBIENT TEMP:	°C
HIGHEST CONTINUOUS TEMPERATURE:	°C

NEC 690.8(B) Ph otovoltaic syste m currents shall be considered continuo us.

HEC 690.8(B)(1) The circuit conductors and overcurrent devices shall be sized to carry not less than 1 25 percent of the maximum currents calculated in b90.8(A).

Exception. Circuits containing an assembly, together with its overcurrent device(sj, ihat is listed for continuous operation at 100 percent of its rating shall be permitted to be utilized at 100 percent of/fs rating.

All signage and markings shall be a phenolic or metalic plate or other similar material in block letters 1/4 inch or greater in height, and suitable for the environment. Levers and background shall be in contrasting colors. Screws, rivets or other approved means shall be used to affix p fates to equipment.

INVER	TER	PANELBOARD			
Maximum Current	oCPD Size	Main Bus	Ma in OCPD		
56 amps	7 0 amps	225 amps	200 amps		
3ò amps	45 amps	225 amps	225 amps		
33 amps	40 amps	200 amps	2o0 amps		
24 amps	30 amps	150 amps	150 amps		
20 amps	25 amps	125 amps	125 amps		
16 amps	20 amps	100 amps	1 0 0 amps		
	Maximum Current 56 amps 3ò amps 33 amps 24 amps 20 amps	Current Size 56 amps 7 0 amps 3ò amps 45 amps 33 amps 40 amps 24 amps 30 amps 20 amps 25 amps	Maximum Current oCPD Size Main Bus 56 amps 7 0 amps 225 amps 3ò amps 45 amps 225 amps 33 amps 40 amps 200 amps 24 amps 30 amps 150 amps 20 amps 25 amps 125 amps		

TAG			EQUIPMEN	NT SCHEDU	JLE				C	Contractor - Instal	
	SOLAR PV MODULE	MAKE:	Λ.	MODEL:		(Attach Cut She	eet - Se	e notes forratings)	Permit #:		Date:
2	PV ARRAY	WEIGHT:	HEIGHT FR			•		mounting system)	Name:		
3	J-BOX	LENGTH:	WIDTH:		GHT:	NEMA R			Address:		
4	COMBINER	MAKE:	M	IODEL:				(Attach cut sheet)	Contact Name:		
5	DC DISCONNECT	VDC:	DC AMP:	MA	KE:			, ,			
6	DC/AC INVERTER	MAKE:				(Attach eut she	et - Se	e notes for ratings)	Contact Phone:		
7	AC DISCONNECT	VAC:	AMPS:	MODEL:					Email:		
8	PRODUCTION METER	METER #:		(Check w	ith serving	gutility for meter	require	ements & location)			UTILITÉ
9	SERVICE PANEL	VAC:	MAIN OCPD:	BUS	AMP:	INVER	TER O	CPD:		Meter #	fVIETER
1	2	3		4				6	7	8	M 3 9
	MODULES IN SERIES SOURCE-CIRCUIT MODULES IN SERIES SOURCE-CIRCUIT	*	J-BOX	COMBIN	NER	DC DISC		INVERTER C	AC DISC	M	MAIN OCPD
	MODULES IN SERIES SOURCE-CIRCUIT				;+- +			 -			++ INVERTER OCPD G MANUS SERVICE PANIEL
;	MODULES IN SERIES SOURCE-CIRCU				a a i	$\sqrt{3}$	Sh	W GEC	/. 10	4	BUILDING
:	MODULES IN \$ SERIES SOURCE-CIRCU	IT*	1	2	F	e Si e					GROUNDING ELECTRODE
;	MODULES IN SERIES SOURCE-CIRCUI		DC EGC Size: J RI TR N A i N AB	ı	'	e 51 e					
A	Conductor Insulation Type	Condu	uctor5 "Derated """	Raceway Sire Type	Ambient T	emp DISta ce AttiC Roof		Standard Elec		Residential Si verter System	mall Scale PV System ns
1									MUST BE i•ROVIDED	TO TI-IE /NSPECrOn /	Ar rHE JOB SITE
			+ + +				\dashv $ $	Sïte lame:			
2							<u> </u>	Site A0dress.'			
3 4	to Dava(n) al candicatore k			mn giut distan-	itaa luhar-	unligatite IVIC 210.1	15)		tors, where installe	d outdoors in rac	rters or transformer-less ceways shall be "W" rated
** Note	te. Dera6n9 <i>o! conductors based on</i> e. Gor>ductors ar>d overcurrent <i>de</i>	number at conducto. evices s6aii fie hirec	is writed z, umblent to	nip uixt distance of 25 percent of the r	naximum cur	<i>րբուսաւ.</i> 1\ՍԵ <i>310.1</i> rents. f61EC 690.8(I	BJ BJ				Rev - 02/23/2013

Rev - 02/23/2013

NOTES for Residential Small Scale PV System Electrical Diagram			
Permit #:	Date:		
Contracto r:			
Job Address:			
Contact Na me.			
Contact Phon e			

SIGNS

SIGN FOR DC D) UCONNECT

PHOTOVOLTAIC POWER SOURCE			
RATED MPP CURRENT	A		
RATED MPP VOLTAGE	٧		
MAX SYSTEM VOLTAGE	٧		
MAX CIRCUIT CURRENT	A		
WARNING! ELECTRICAL SHOCK HAZARD—LINE AND LOAD MAY BE			

SIGN FOR INVERTER OCPD AND AC DISCONNECT (IF USED)

ENERGIZED IN OPEN POSITION

SOLAR PV SYSTEM				
AC POINT OF CONNECTION				
AC OUTPUT CURRENT	A			
NOMINAL AC VOLTAGE				
THIS PANEL FED BY MULTIPLE SOURCES (UTILITY AND SOLAR)				

PV MODULE RATINGS

MODULE MAKE		
MODULE MODEL		
MAX POWER-POIN	IT CURRENT (I)	A
MAX POWER-POIN	IT VOLTAG E (V)	V
OPEN-CIRCUIT VOLTAGE (V q)		V
SHORT-C IRCUIT CURRENT (I)		A
MAX SERIES FUSE (OCPD)		А
MAXIMUM POWER	W	
MAX VOLTAG E (TYP 600V,,)		V
VOC TEMP COEFF (mV/°Cp or °A/°C p)		
IF COEFF SUPPLIE	ED, CIRCLE UNITS	
·		

INVERTER RAT) NGS

INVERTER MAKE		
INVERTER MODEL		
MAX DC VOLT RATIN	NG	V
MAX POWER @ 40°C		W
NOMINAL AC VOLTAGE		V
MAX AC CURRENT		А
MAX OCPD RATING		Α

LOWEST EXPECTED AMBIENT TEMP:	°C
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Maximum Current	oCPD Size	Main Bus	Ma in OCPD		
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16 amps	20 amps	100 amps	1 0 0 amps		
	Maximum Current 56 amps 3ò amps 33 amps 24 amps 20 amps	Current Size 56 amps 7 0 amps 3ò amps 45 amps 33 amps 40 amps 24 amps 30 amps 20 amps 25 amps	Maximum Current oCPD Size Main Bus 56 amps 7 0 amps 225 amps 3ò amps 45 amps 225 amps 33 amps 40 amps 200 amps 24 amps 30 amps 150 amps 20 amps 25 amps 125 amps		

SITE PLAN		Provide roof outline with location of all PV panels, j-box, combined and DC disconnect.	
RESIDENTIAL SMALL SCALE PV SYSTEM		If required, show fire co	de access pathways.
Permit é:	Date:	Contractor: C	Contrator Phane:
Job Address:		Contact Name:	Contact Phone: