

COUNTY OF KANE

Rev. 4/16

DEVELOPMENT DEPARTMENT
Building and Community Services Division
Mark D. VanKerkhoff, AIA Director

Fax: (630) 232-3411



County Government Center
719 Batavia Avenue
Geneva, Illinois 60134
Phone: (630) 232-3485
Website: www.co.kane.il.us

SOLAR POWER HANDOUT INFORMATION REQUIRED FOR PERMIT APPLICATION

(PLEASE RETURN THIS HANDOUT TO THE KANE COUNTY BUILDING DIVISION)

Date: _____

Owner _____

Commercial Use (2021 IBC)

Parcel number _____

Residential Use (2021 IRC)

Installation Co.: _____

Contact Name: _____

Address: _____

City, State: _____

Phone No: _____

References: 2021 International Residential Code/2021 International Building Code, Kane County Zoning Ordinance, Kane County Water Resources Ordinances.

NOTE: When submitting electronically, only 1 set of required documents need be sent

1. Permit application must be completed.
 - A. New structures and existing structures with remodeling/additions
 1. Complete both side of the application.
2. Two copies of the construction documents for all structures to be erected on premise. All construction documents are to be sealed by an Illinois licensed architect or structural engineer, as applicable and dated. Construction documents will include complete drawings and specifications of all new and existing conditions. Each copy should include the following:
 - A. One copy of the sealed structural layouts, foundations, sections, and calculations for the Solar Panel System. Design drawings to be submitted with permit application.
 - B. One copy of each of the required submittals. (see next page)
3. Three copies of the site improvement plans, including all lot lines, building setbacks, existing structures, parking layouts, landscaping plan/privacy fence, septic tank and field location, well location, and general grading.
4. Plat of survey of the property involved.
5. Answer questions where indicated below:
 - A. Detailed explanation of the use of the structure (Section 1.1 Kane County Zoning Ordinance) (height of the Solar Panel/s) (highest point) _____

Required Submittals for Solar Panel Systems

Type of Solar System Being Proposed:

A. Photovoltaic _____

Type of Inverter:

- _____ Grid Tie Inverter: PV System tied directly to the electrical grid (Remote Disconnect Required for Fire Personnel)
- _____ Off Grid Inverter: PV System is stand alone or off electrical grid (Remote Disconnect Required)
- _____ On/Off Grid Inverter: PV is tied to the electrical grid and has battery backup (Remote Disconnect Required)

B. Thermal: _____

Solar System Wattage:

A. Number of Solar Panels _____

B. DC Watts per Solar Panel _____

C. Number _____ X DC Watts _____ = _____ Total Watts

The Location of Solar Panel System:

A. _____ Ground Mounted

(Provide 3 copies of the site plans showing the distances to all buildings, and the set-backs to all property lines, and location of well and septic.)

B. _____ Roof Mounted

(Provide a plan showing the location that the panels are installed on the roof following the latest edition of International Fire Code requirements.)

Required Submittals To Be Include With The Construction Drawings (Item 2.B. Previous page):

1. Provide a copy of the complete cut-sheets of the system to be installed.
2. Provide wiring diagrams of the system showing the interior/exterior locations of the automatic disconnect for COM ED and the remote disconnect for fire department. These disconnects are to be marked per the 2020 NEC requirements. Indicate the locations of the plaques and directories required per the 2020 NEC requirements (Article 690 and 705).
3. Indicate if the system contains an automatic disconnect if the grid system loses power. If the system contains batteries it will have to have a remote disconnect, accessible by the fire department, to prevent back-feeds to the rest of the electrical system during an emergency.
4. Provide a copy of the application for the required Interconnect Agreement from COM ED (Appendix B). <https://www.comed.com/customer-service/rates-pricing/interconnection/Pages/transmission.aspx>
5. Provide a letter from the servicing fire department that they have reviewed and approved the installation of the system per their ordinances. The fire department should also give their approval of any required remote disconnects. NOTE: The properties that are located in the City of Aurora Fire District, the Fire Dept. does not send any letters, please submit the City Of Aurora Solar Form.
6. Provide a floor plan of the location the electrical panel/s will be installed in the structure or a utility room.
7. Provide the location of the new wiring for the panels. Indicate whether the wiring is on the exterior or interior of the structure and that it will be installed per the 2020 NEC.
8. Does this installation contain a storage battery system? If it does, supply the installation requirements for the batteries and the location of the batteries per the 2021 IBC/IRC.
9. For a roof mounted system, provide a review of the existing structure, the panels, and the panel anchorage by a State of Illinois licensed architect or structural engineer. This review is to be based on the requirements of the 2021 IBC / 2021 IRC (which every is applicable)