

VILLAGE OF ORANGEVILLE
ORDINANCE 0501-23

AN ORDINANCE AMENDING Chapter 24, – BUILDING AND CONSTRUCTION CODES of the Orangeville Book of Municipal Codes,

WHEREAS the prior motion on 02-04-19 was passed to include roof mount solar panels to building permits with a fee of \$10, and

WHEREAS permits for Solar energy systems are now more commonly being requested, and

WHEREAS the Village has determined that it is necessary to amend Building and Construction Codes to include specs for solar panels,

BE IT ORDAINED By the President and the Trustees of the Village of Orangeville, Stephenson County, Illinois that ARTICLE IV: SOLAR ENERGY SYSTEMS be supplemented and amended as follows:

ARTICLE IV: SOLAR ENERGY SYSTEMS

Sec. 24-68 Compliance Required: Application of Article. It shall be unlawful to construct, maintain, or install a solar energy system in the Village of Orangeville except in compliance with provisions of this Article.

Sec. 24-69 Adherence to Design Standards. The general design and permitting standards applicable to all construction, maintenance, and repair work in the Village of Orangeville shall apply to the installation of a solar energy system, but not limited to, the current Mechanical and Electrical Codes. The provisions of this Article shall be deemed to be requirements in addition to said general standards, provide, however, that where there is a conflict between the provisions of this Article and the provisions of another Article or Chapter, the provisions set forth in this Article shall be deemed to supersede any such conflicting provision as it pertains to the installation, maintenance, or repair of solar energy system.

Sec. 24-70 Roof Mounted PV Arrays

- (a) In addition to the general design standards applicable to all installations of structural or electrical components in the Village of Orangeville, roof mounted PV arrays shall further comply with the following design and installation requirements set forth in this section.
- (b) No roof-mounted PV array shall be constructed in a manner which creates an increased risk of falling ice or snow, or which causes water to follow directly from any panel to ground level.
- (c) For purposes of this section, a “pitched Roof” shall be any roof with an angle of more than 12.00 degrees inclination as measured from horizon. “Flat roof” shall be defined as any roof with an angle of 12.00 degrees or lower.
- (d) Height and Angle Restrictions
 - (1) For pitched roof installations
 - A. The highest edge of a PV array mounted on a pitched roof shall not exceed the height of the ridge of the roof section upon which the PV array is installed.

- B. No panel shall be installed more than ten inches above, as measured perpendicular to the pitch, the existing roof surface.
 - C. All panels shall be installed at an angle which does not differ from the angle of the roof pitch by more than five degrees when measured against the horizon.
 - D. All PV arrays shall be mounted or affixed directly to a truss or support beam and shall not be secured to the roof using only a decking anchor or mount.
- (2) For flat roof installations
- A. The highest edge of a PV array mounted on a flat roof shall not exceed fifteen feet beyond the existing roofline. The height of a PV array shall not be included in the height of the building for the purposes of computing the height of a flat roof building.
 - B. Non-ballasted roof-mounting PV arrays shall be mounted or affixed directly to a truss or support beam and shall not be secured to the roof using only a decking anchor or mount.
 - C. Ballasted roof-mounted PV arrays may be used provided that the structure on which they are located is structurally sufficient to support the added load stresses, including dead load, wind load, and rain/snow loads.
- (e) Setbacks and Pathways. All roof-mounted PV arrays shall observe setbacks and provide structurally supported, unobstructed pathways in accordance with this subsection.
- (1) Pitched roof installations – large. Where the total coverage of a PV array exceeds 1,000 square feet on any building with a pitched roof:
- A. No collector panel or mounting device shall extend closer than thirty-six inches to the edge of the roof as measured from the nearest edge of the roof to the solar array or mounting apparatus.
 - B. An obstructed walkway from eave to ridge no less than thirty-six inches shall be provided at regular intervals of no more than seventy-five feet, if any PV array exceeds one hundred feet in length, as measured parallel to nearest ridgeline.
 - C. A minimum of eighteen inches unobstructed pathway shall be maintained along each side of any ridge or valley (total thirty-six inch minimum width) and around any roof-mounted equipment, not including passive air vents.
- (2) Pitched roof installations – small. Where the total coverage of PV array does not exceed 1,000 square feet on any building with a pitched roof:
- A. If the total coverage of the PV array is less than twenty-five percent of the total area of the roof area of the structure, a minimum of twelve-inch unobstructed pathway shall be maintained along any horizontal ridge, and along any roof edge as measured from the nearest edge of the roof to the solar array or mounting apparatus.
 - B. If the total coverage of the PV array is twenty-five percent or more of the total area of the roof area of the structure, a minimum of twelve-inch unobstructed pathway shall be maintained along any horizontal ridge, and along any roof edge as measured from the nearest edge of the roof to the solar array or mounting apparatus. A minimum thirty-six-inch unobstructed pathway shall be provided from ridge to eave on any roof face on which a PV array is installed.

- (3) Flat roof installations. On any building with a flat roof:
 - A. No collector panel or mounting device shall extend closer than thirty-six inches to the edge of the roof as measured from the nearest edge of the solar roof to the solar array or mounting apparatus.
 - B. No collector panel or mounting device shall be placed closer than thirty-six inches from any roof-mounted equipment.
 - C. Any PV array exceeding 4,000 square feet in area shall provide unobstructed pathways of no less than thirty-six inches at regular intervals of no more than fifty feet.
- (f) Historic Buildings. No roof-mounted PV array shall be installed on any building or structure which has been designated as a historic landmark.

Sec. 24-71 Ground-Mounted PV arrays

- (a) The Village of Orangeville is not allowing ground-mounted PV arrays within the village limits.
- (b) The Village of Orangeville is not allowing any mid to large scale solar system in the village limits.

Sec. 24-72 Permit Applications. A permit application requested pursuant to this Article shall contain the following information.

- (a) Name and address of applicant.
- (b) Name(s) and address(es) of owner(s) of proposed site.
- (c) For small solar energy systems, a detailed sketch, generally to scale, of the entire lot, including any buildings and accessory structures and showing the location of all planned PV arrays.
- (d) The manufacturer, type and nameplate capacity of all photovoltaic panels to be used in project.
- (e) Total nameplate capacity of solar energy systems.
- (f) An indication of whether the applicant has obtained an interconnection agreement with the appropriate regional transmission organization and the electricity will be distributed privately and consumed on site.
- (g) Name of the installer.
- (h) A public meeting shall be held by the applicant prior to the approval of any application for construction of a mid to large scale or ground mount solar system. Which are currently not allowed in the Village.

Sec. 24-72 Permit Review.

The Village of Orangeville, or its designee, shall review the permit application, all supporting documentation, and comments, if applicable.

Sec. 24-73. Licensed Contractors.

No work shall be performed on any solar energy system, or any component thereof, by any person who is not a licensed commercial contractor.

- (1) This Ordinance shall be in full effect from and after its passage and approval.

Trustee	Yea	Nay	Abstain
Jackie Dominick	✓		
Nichole Eipers	✓		
Ray Parriott	✓		
Kurt Schilling			✓
Denise Scudder	✓		
Theresa Shuman	✓		

Enacted this 1st day of may, 2023

Village Clerk – Toni Koester

Toni Koester

Seal:



Village President – Tom Scudder

Tom Scudder