Model Solar Ordinance

for Indiana local governments

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Model Solar Ordinance – Indiana

# Introduction

Indiana has high-quality and cost-effective solar energy resources – as good as many states to the south and consistently available across the entire state. As solar energy system components have become more efficient and less costly, an increasing number of solar energy systems have been installed in Indiana. Market opportunities for solar development have dramatically increased in Indiana over the last five years, such

***Model Solar Energy Standards***

*This ordinance is based on the model solar energy ordinance originally created for the Department of Energy’s Phase I Rooftop Solar Challenge program in Minnesota, and updated for the three- state Grow Solar initiative, funded by Rooftop Solar Challenge Phase 2.*

that communities must now address solar installations as land use and development issues. Solar energy components continue to improve in efficiency and decline in price; large-scale solar energy is expected to become the least expensive form of electric energy generation within a few years, surpassing wind energy and natural gas in the levelized cost of energy.

However, solar energy is much more than just low-cost energy generation. Households and businesses seeking to reduce their carbon footprint see solar energy as a strong complement to energy efficiency. Agricultural producers see solar energy as an economic hedge against price volatility in commodity crops. Utilities see solar’s declining cost, high reliability, and free fuel as a means to put downward pressure on electric rates. Corporate, institutional, and municipal buyers are actively acquiring carbon-free solar generation to meet climate and clean energy goals. And innovative solar site designs are creating and capturing habitat and water quality co-benefits by using solar with habitat-friendly ground cover to restore ecosystem functions. Innovative solar site designs can also create and capture biodiversity and water quality benefit with vegetation plans that include perennial ground cover to enhance ecosystem functions that have been lost over the decades.

Solar Energy Issues

Local governments in Indiana are seeing increasing interest from property owners in solar energy installations and are having to address a variety of solar land uses in their development regulations. Given the continuing cost reductions and growing value of clean energy, solar development will increasingly be a local development opportunity, from the rooftop to the large-scale solar farm. Three primary issues tie solar energy to development regulations:

1. *Land use conflicts and synergies.* Solar energy systems have few nuisances. Nevertheless, solar development can compete for land with other development options, and visual impacts and perceived safety concerns sometimes create opposition to solar installations. Good design and attention to aesthetics can address most concerns for rooftop or accessory use systems, including historic and design standards. Good site placement and design standards for large- and community-scale solar can similarly resolve conflicts and create co-benefits from solar development such as restoring habitat, diversifying agricultural businesses, and improving surface and ground waters.
2. *Protecting access to solar resources.* Solar resources are a valuable component of property ownership. Development regulations can inadvertently limit a property owner’s ability to access their solar resource. Communities should consider how to protect and develop solar resources in zoning, subdivision, and other development regulations or standards.
3. *Encouraging appropriate solar development.* Local governments can go beyond simply removing regulatory barriers and encourage solar development that provides economic development, climate protection, and natural resources co-benefits. Local governments have a variety of tools to encourage appropriately sited and designed solar development to meet local goals.

Components of a Solar Standards Ordinance Solar energy standards should:

1. *Enable solar installations by-right for property-owners*. Create a clear regulatory path (an as-of-right installation) to solar development for accessory uses and – if appropriate – for principal uses such as large- scale solar and ground-mounted community shared solar installations.
2. *Create a clear pathway for principal solar uses*. Define where community- and large-solar energy land uses are appropriate as a principal or primary use, set development standards and procedures to guide development, and capture co-benefit opportunities for water quality, habitat, and agriculture.
3. *Limit regulatory barriers to developing solar resources*. Ensure that access to solar resources is not unduly limited by height, setback, or coverage standards, recognizing the distinct design and function of solar technologies and land uses for both accessory and principal uses.
4. *Define appropriate aesthetic standards*. Retain an as-of-right installation pathway for accessory uses while balancing design concerns in urban neighborhoods and historic districts. Set reasonable aesthetic standards for solar principal uses that are consistent with other principal uses that have visual impacts.
5. *Address cross-property solar access issues*. Consider options for protecting access across property lines in the subdivision process and in zoning districts that allow taller buildings on smaller (urban density) lots.
6. *Promote “solar-ready” design.* Every building that has a solar resource should be built to seamlessly use it. Encourage builders to use solar-ready subdivision and building design.
7. *Include solar in regulatory incentives.* Encourage desired solar development by including it in regulatory incentives: density bonuses, parking standards, flexible zoning standards, financing/ grant programs, and promotional efforts.

Different Community Types and Settings

The model ordinance language addresses land use concerns for both urban and rural areas, and thus not all the provisions may be appropriate for every community. Issues of solar access and nuisances associated with small or

***Solar development is not one thing***

*Communities would not apply the same development and land use standards to an industrial facility and a single-family home, merely because both are buildings. Community*

*and large-scale solar development is a completely different land use than rooftop or backyard solar.*

*Standards that are appropriate for large-scale solar may well be wholly inappropriate for rooftop solar and may unnecessarily restrict or stymie solar development opportunities of homes and business owners.*

accessory use solar energy systems are of less consequence in rural areas, where lot sizes are almost always greater than one acre. Large-scale and community- scale solar (principal solar land uses) are much more likely to be proposed in rural areas rather than developed cities. However, urban areas should consider where community-or large-scale solar can add value to the community and enable economic development of a valuable local resource. Rural communities should address rooftop and accessory ground-mounted development, although the standards used in this model are designed more for the urban circumstances.

This ordinance includes language addressing solar energy as an accessory use to the principal residential or commercial use in an urban area, and language for principal solar uses more typically seen in rural communities. Communities should address both types of solar development.

# How to Use this Model Ordinance

This Model Ordinance is based on research and best practices identified through working with over 100 Midwestern communities over the last ten years as solar energy markets evolved and expanded. The standards included in this model reflect the real-world controversies and opportunities the communities faced as the solar energy market grew. The portfolio of standards included in the model is intended to provide a reference for how communities can address those controversies and opportunities to make solar development more predictable, solar land use regulation more transparent, and regulatory standards more consistent across jurisdictions within the same solar market.

The model has been tailored to reflect Indiana-specific enabling statutes, ordinance practices, and community priorities currently seen in the state, with input from local planning, solar industry, and other experts. Because Indiana communities’ ordinances, comprehensive plans and other local planning documents naturally vary, not all provisions included in the Model Ordinance will be suitable for each individual community. Moreover, as this is a “best practices” document, communities may decide not to include one or more suggested provisions. A community may also be aware of elements not included in this Model Ordinance that they wish to include. These sorts of adjustments are to be expected.

Appendix A includes links to solar ordinances already adopted by Indiana communities. The authors have not reviewed these existing ordinances against the language provided in this Model Ordinance, but provide them for users’ conve- nience.

# Model Ordinance

1. **Scope** – This article applies to all solar energy installations in Model Community.
2. **Purpose** – Model Community has adopted this regulation for the following purposes:

***Comprehensive Plan Goals***

*Tying the solar energy ordinance to Comprehensive Plan goals is particularly important for helping users (both Planning Commission and community members) understand why the community is developing and administering regulation.*

*The language here provides examples of different types of Comprehensive Plan goals, and other policy goals that the community may have that are served by enabling and encouraging solar development. The community should substitute its policy goals for these examples.*

*The Comprehensive Plan may not include goals that specifically address or would be enhanced by solar development (such as climate protection or local resource economic goals). While lack of a policy goal should not delay adoption of a solar ordinance, the community may wish to consider creating a local energy plan or similar policy document that provides guidance regarding solar development.*

* 1. **Comprehensive Plan Goals** – Model Community has goals in its Comprehensive Plan, including preserving the health, safety, and welfare of the community by promoting the safe, effective, and efficient use of solar energy systems. The solar energy standards specifically implement the following goals from the Comprehensive Plan:
     1. **Goal** – Encourage the use of local renewable energy resources, including appropriate applications for wind, solar, and biomass energy and energy storage.
     2. **Goal** – Promote sustainable building design and management practices to serve current and future generations.
     3. **Goal** – Assist local businesses to lower financial and regulatory risks and improve their economic, community, and environmental sustainability.
     4. **Goal** – Efficiently invest in and manage public infrastructure systems to support development and growth.
  2. **Infrastructure** – Distributed solar photovoltaic systems will enhance the reliability and power quality of the power grid and make more efficient use of Model Community’s electric distribution infrastructure.
  3. **Local Resource** – Solar energy is an underused local energy resource and encouraging its use will diversify the community’s energy supply portfolio and reduce exposure to fiscal risks associated with fossil fuels.

***Climate Protection Strategies***

*Some local governments in Indiana have adopted climate resolutions, committed to national climate goals, or have otherwise identified greenhouse gas reduction or energy independence targets. Introductory language in solar ordinances can list those commitments. An increasing number*

*of Hoosier local governments are using and promoting solar installations to meet their energy and greenhouse gas reduction goals, but there are many reasons other than climate-related goals for a community to prepare for solar developments.*

* 1. **Consistency with Greenhouse Gas Reduction Plans** – Model Community has developed recommendations for greenhouse gas reductions, a purpose served by encouraging local solar development.
  2. **Improve Competitive Markets** – Solar energy systems offer additional energy choices to consumers and will improve competition in the electricity and natural gas supply markets.

## Definitions

***Solar Definitions***

*Not all of these terms are used in this model ordinance, nor is this a complete list of*

*solar definitions. As a community develops its own development standards for solar technology, many of the concepts defined here may be helpful in meeting local goals. For instance, solar daylighting devices may change the exterior appearance of the building, and the community may choose to distinguish between these devices and other architectural changes.*

**Agrivoltaics** – A solar energy system co-located on the same parcel of land as agricultural production, including crop production, grazing, apiaries, or other agricultural products or services.

**Building-integrated Solar Energy Systems** – A solar energy system that is an integral part of a principal or accessory building, rather than a separate mechanical device, replacing or substituting for an architectural or structural component of the building. Building- integrated systems include, but are not limited to, photovoltaic or hot water solar energy systems that are contained within roofing materials, windows, skylights, and awnings.

**Community-Scale Solar Energy System** – A commercial solar energy system that converts sunlight into electricity for the primary purpose of serving electric demands off-site from the facility, either retail or wholesale. Community-scale systems are principal uses and projects typically cover less than 10 acres.

***Differentiating Solar Uses by Size***

*Community-scale and large-scale systems are defined here as occupying less than 10 acres and greater than 10 acres,*

*respectively. Some communities use a lower number (five acres) and some a higher number (up to 50 acres). An ex-urban city would likely use a lower number and a*

*rural county could use a higher number. Community-scale is generally a size that can fit into the land use fabric of the community without assembly of separate parcels. Some communities have chosen not to distinguish between community- and large-scale, and instead use a single large- scale designation.*

**Community Shared Solar** – A solar energy system that provides retail electric power (or a financial proxy for retail power) to multiple community members or businesses residing or located off-site from the location of the solar energy system.

**Grid-tied Solar Energy System**– A photovoltaic solar energy system that is connected to an electric circuit served by an electric utility company.

**Ground-Mounted** – A solar energy system mounted on a rack or pole that rests or is attached to the ground. Ground-mounted systems can be either accessory or principal uses.

***Pollinator Friendly Standards***

*As pollinator-friendly landscaping becomes more common for solar energy systems, organizations are publishing standards, checklists, and scorecards to help developers and local governments so they will not have to independently research the kinds of plants that are appropriate and so that landscaping described as “pollinator-friendly” can be assured*

*to meet an independently established standard. In Indiana, examples include* [*Purdue University’s 2020 Indiana Solar Site*](https://mdc.itap.purdue.edu/item.asp?itemID=24467)[*Pollinator Habitat Planning Scorecard*](https://mdc.itap.purdue.edu/item.asp?itemID=24467) *and the* [*Michiana Area Council of Governments’*](http://macog.com/solar_energy.html)[*(MACOG) Technical Guide: Establishment*](http://macog.com/solar_energy.html)[*and Maintenance of Pollinator-Friendly*](http://macog.com/solar_energy.html)[*Solar Projects.*](http://macog.com/solar_energy.html) *Porter County, Indiana has adopted pollinator-friendly language in its* [*solar ordinance*](https://www.porterco.org/DocumentCenter/View/10077/Solar-Ordinance-Chps-2-5-and-10_Ord-20-11) *that also provides a useful guide. Using a standard establishes a common foundation for what constitutes a pollinator-friendly installation and saves the local government the dilemma of devising and policing a habitat standard.*

**Large-Scale Solar Energy System** – A commercial solar energy system that converts sunlight into electricity for the primary purpose of wholesale sales of generated electricity. A large-scale solar energy system will have a project size greater than 10 acres and is the principal land use for the parcel(s) on which it is located. It can include collection and feeder lines, substations, ancillary buildings, solar monitoring stations and accessory equipment or structures thereto, that capture and convert solar energy into electrical energy, primarily for use in locations other than where it is generated.

**Off-grid Solar Energy System** – A photovoltaic solar energy system in which the circuits energized by the solar energy system are not

electrically connected in any way to electric circuits that are served by an electric utility company.

**Passive Solar Energy System** – A solar energy system that captures solar light or heat without transforming it to another form of energy or transferring the energy via a heat exchanger.

**Photovoltaic System** – A solar energy system that converts solar energy directly into electricity.

**Pollinator-Friendly Solar Energy** – A community- or large-scale solar energy system that meets the requirements of the 2020 Indiana

Solar Site Pollinator Habitat Planning Scorecard developed by Purdue University or another pollinator-friendly checklist developed by a third-party as a solar-pollinator standard designed for Midwestern eco-systems, soils, and habitat.

**Renewable Energy Easement, Solar Energy Easement** – An easement that limits the height or location, or both, of permissible development on the burdened land in terms of a structure or vegetation, or both, for the purpose of providing access for the benefited land to wind or sunlight passing over the burdened land.

**Roof-Mounted** – A solar energy system mounted on a rack that is fastened to or ballasted on a structure roof. Roof-mounted systems are accessory to the principal use.

**Roof Pitch** – The final exterior slope of a roof calculated by the rise over the run, typically but not exclusively expressed in twelfths such as 3/12, 9/12, 12/12.

**Solar Access** – Unobstructed access to direct sunlight on a lot or building through the entire year, including access across adjacent parcel air rights, for the purpose of capturing direct sunlight to operate a solar energy system.

**Solar Carport** – A solar energy system of any size that is installed on a carport structure that is accessory to a parking area, and which may include electric vehicle supply equipment or energy storage facilities.

**Solar Collector** – A device, structure or a part of a device or structure for which the primary purpose is to transform solar radiant energy into thermal, mechanical, chemical, or electrical energy. The collector does not include frames, supports, or mounting hardware.

**Solar Daylighting** – Capturing and directing the visible light spectrum for use in illuminating interior building spaces in lieu of artificial lighting, usually by adding a device or design element to the building envelope.

**Solar Energy** – Radiant energy received from the sun that can be collected in the form of heat or light by a solar collector.

**Solar Energy System** – A device, array of devices, or structural design feature, the purpose of which is to provide for generation or storage of electricity from sunlight, or the collection, storage, and distribution of solar energy for space heating or cooling, daylight for interior lighting, or water heating.

**Solar Hot Air System** – (also referred to as Solar Air Heat or Solar Furnace) A solar energy system that includes a solar collector to provide direct supplemental space heating by heating and re-circulating conditioned building air. The most efficient performance includes a solar collector to preheat air or supplement building space heating, typically using a vertically mounted collector on a south-facing wall.

**Solar Hot Water System (also referred to as Solar Thermal)**– A system that includes a solar collector and a heat exchanger that heats or preheats water for building heating systems or other hot water needs, including residential domestic hot water and hot water for commercial processes.

***Solar Resource***

*Understanding what defines a “solar resource” is foundational to how land use regulation affects solar development. Solar energy resources are not simply where sunlight falls. A solar resource has minimum spatial and temporal characteristics, and needs to be considered not only today but also into the future. Solar energy equipment cannot function as designed if installed in partial shade, with too few hours of daily or annual direct sunlight, or without southern or near-southern exposure. Many provisions of the model ordinance are predicated*

*on the concept that a solar resource has definable characteristics that are affected by local land use decisions and regulation.*

**Solar Mounting Devices** – Racking, frames, or other devices that allow the mounting of a solar collector onto a roof surface or the ground.

**Solar Resource** – A view of the sun from a specific point on a lot or building that is not obscured by any vegetation, building, or object for a minimum of four hours between the hours of 9:00 AM and 3:00 PM Standard time on all days of the year, and can be measured in annual watts per square meter.

**Solar-Ready Design** – The design and construction of a building that facilitates and makes feasible the installation of rooftop solar.

1. **Permitted Accessory Use.** Solar energy systems are a permitted accessory use in all zoning districts where structures of any sort are allowed, subject to certain requirements as set forth below. Solar carports and associated electric vehicle charging equipment are a permitted accessory use on surface parking lots in all districts regardless of the existence of another building. Solar energy systems that do not meet the following design standards will require a conditional use permit.
   1. **Height** – Solar energy systems must meet the following height requirements:

***Indiana Code Title 36. Local Government***

***§ 36-7-2-1***

*Sec. 8 . . . (b) A unit may not adopt any ordinance which has the effect of*

*prohibiting or of unreasonably restricting the use of solar energy systems other than for the preservation or protection of the public health and safety.*

1. *This section does not apply to ordinances which impose reasonable restrictions on solar energy systems. However, it is the policy of this state to promote and encourage the use of solar energy systems and to remove obstacles to their use. Reasonable restrictions on solar energy systems are those restrictions which:*
   1. *do not significantly increase the cost of the system or significantly decrease its efficiency; or (2) allow for an alternative system of comparable cost and efficiency.*
      1. Building or roof-mounted solar energy systems shall not exceed the maximum allowed height in any zoning district. For purposes of height measurement, solar energy systems other than building- integrated systems shall be given an equivalent exception to height standards as building-mounted mechanical devices or equipment.
      2. Ground or pole-mounted solar energy systems shall not exceed 15 feet in height when oriented at maximum tilt.
      3. Solar carports in non-residential districts shall not exceed 20 feet in height.
   2. **Setback** – Solar energy systems must meet the accessory structure setback for the zoning district and principal land use associated with the lot on which the system is located, as allowed below.
      1. **Roof or Building-mounted Solar Energy Systems** – The collector surface and mounting devices for roof-mounted solar energy systems shall not extend beyond the exterior perimeter of the building on which the system is mounted or built, unless the collector and mounting system has been explicitly engineered to safely extend beyond the edge, and setback standards are not violated. Exterior piping for solar hot water systems shall be

***Height - Rooftop System***

*This ordinance notes exceptions to the height standard when other exceptions are granted in the ordinance. Communities should directly reference the exception language, rather than use the placeholder language here.*

allowed to extend beyond the perimeter of the building on a side yard exposure. Solar collectors mounted on the sides of buildings and serving as awnings are considered to be building-integrated systems and are regulated as awnings.

* + 1. **Ground-mounted Solar Energy Systems** – Ground-mounted solar energy systems may not extend into the side-yard or rear setback when oriented at minimum design tilt, except as otherwise allowed for building mechanical systems.

***Height - Ground or Pole Mounted System***

*This ordinance sets a 15-foot height limit, which is typical for residential accessory uses. Some communities allow solar to be higher than other accessory uses in order to enable capture of the lot’s solar resource when lots and buildings are closer together. An alternative is to balance height with setback, allowing taller systems if set back farther – for instance, an extra foot of height for every extra two feet of setback. In rural (or large lot) areas, solar resources are unlikely to be constrained by trees or buildings on adjacent lots and the lot is likely to have adequate solar resource for*

*a lower (10-15 foot) ground- mounted application.*

* 1. **Visibility** – Solar energy systems in residential districts shall be designed to minimize visual impacts from the public right-of-way, as described in C.1-3, to the extent that doing so does not affect the cost or efficacy of the system, consistent with Indiana Code 36-7-2-8.

Visibility standards do not apply to systems in non-residential districts, except for historic building or district review as described in E. below.

* + 1. **Building-integrated Photovoltaic Systems –** Building integrated photovoltaic solar energy systems shall be allowed regardless of whether the system is visible from the public right-of-way,

provided the building component in which the system is integrated meets all required setback, land use or performance standards for the district in which the building is located.

* + 1. **Aesthetic restrictions** – Roof-mounted or ground-mounted solar energy systems shall not be restricted for aesthetic reasons if the system is not visible from the closest edge of any public right-

***Visibility and Aesthetics***

*Aesthetic regulation should be tied to design principles rather than targeted at a specific land use. If the community already regulates aesthetics in residential districts, this model language provides guidance for balancing between interests of property owners who want to use their on-site solar resources and neighbors concerned with neighborhood character. Substantial evidence demonstrates that solar installations have no effect on property values of adjacent properties. But where aesthetic regulation is used to protect community character, these standards*

*provide balance between competing goals.*

of-way other than an alley or if the system meets the following standards.

* + - 1. Roof-mounted systems on pitched roofs that are visible from the nearest edge of the front right-of-way shall have the same finished pitch as the roof and be no more than ten inches above the roof.
      2. Roof-mounted systems on flat roofs that are visible from the nearest edge of the front right-of-way shall not be more than five feet above the finished roof and are exempt from any rooftop equipment or mechanical system screening.
    1. **Reflectors** – All solar energy systems using a reflector to enhance solar production shall minimize glare from the reflector affecting adjacent or nearby properties.

***Building-integrated PV***

*Building-integrated solar energy systems can include solar energy systems built into roofing (existing technology includes both solar shingles and solar roofing tiles), into awnings, skylights, and walls.*

* 1. **Lot Coverage** – Ground-mounted systems shall meet the existing lot coverage restrictions for the zoning district except as defined below.
     1. Ground-mounted systems shall be exempt from lot coverage or impervious surface standards if the soil under the collector is maintained in vegetation and not compacted.

***Roof-Mounted Solar Energy Systems***

*This ordinance sets a threshold for pitched roof installations that they not be steeper than the finished roof pitch. Mounted systems steeper than the finished roof pitch change the appearance of the roof, and create additional considerations in regard to the wind and drift load on structural roof components. If the aesthetic impacts are not a concern to the community, the structural issues can be addressed in the building permit.*

* + 1. Ground-mounted systems shall not count toward the maximum number of accessory structures permitted.
    2. Solar carports in non-residential districts are exempt from lot coverage limitations.
  1. **Historic Buildings** – Solar energy systems on buildings within designated historic districts or on locally designated historic buildings (exclusive of State or Federal historic designation) must receive approval of the local Historic Preservation Commission, or equivalent, consistent with the standards for solar energy systems on historically designated buildings published by the U.S. Department of the Interior.
  2. **Plan Approval Required** – All solar energy systems requiring a building permit or other permit from Model Community shall provide a site plan for review.

***Roof Coverage and Fire Code***

***Roof coverage limitations are generally not necessary, as some of the roof is likely to be shaded or otherwise not suitable for solar energy. Coverage is an issue of concern in order to ensure ready roof***

***access in the event of a fire. The new 2018 IRC adopted by Indiana provides guidance for consistency with fire code and roof access. The permitting best practice is to allow for fire marshal variances where appropriate on access pathways.***

* + 1. **Plan Applications.** Plan applications for solar energy systems shall be accompanied by to-scale horizontal and vertical (elevation) drawings. The drawings must show the location of the system on the building or on the property for a ground-mounted system, including the property lines.
    2. **Plan Approvals.** Applications that meet the design requirements of this ordinance shall be granted administrative approval by the zoning official and shall not require Planning Commission review. Plan approval does not indicate compliance with Building Code or Electric Code.
  1. **Approved Solar Components** – Electric solar energy system components must have an Underwriters Laboratory (UL) or equivalent listing and solar hot water systems must have an Solar Rating & Certification Corporation (SRCC) or equivalent rating.
  2. **Compliance with Building Code** – All solar energy systems shall meet approval of local building code officials, consistent with the State of Indiana Building Code, and solar thermal systems shall comply with HVAC-related requirements of the Energy Code.

***Impervious Surface Coverage***

*Rather than consider the solar panel for a ground-mounted system as a roof, this*

*provision recognizes that the ground under the panel can mitigate stormwater risks if it is kept in vegetation so that rainwater can infiltrate. Any effects are de minimis for a small array if the lot is otherwise within coverage ratios.*

* 1. **Compliance with State Electric Code** – All photovoltaic systems shall comply with the Indiana State Electric Code.
  2. **Compliance with State Plumbing Code** – Solar thermal systems shall comply with applicable Indiana State Plumbing Code requirements.
  3. **Utility Notification** – It is recommended that the interconnection application be submitted to the utility prior to applying for required permits. Grid-tied solar energy systems shall comply with

***Historic Buildings***

*The standards set forth by the local historic preservation commission should be consistent with the standards for solar energy systems on historically*

*designated buildings published by the U.S. Department of the Interior. If the local historic preservation commission does not have standards, local commissions should refer to the U.S. Department of Interior Standards and guidelines outlined at http*[*s://ww*](http://www.nps.gov/tps/sustainability/)*w.np*[*s.gov/tps/sustainability/*](http://www.nps.gov/tps/sustainability/) *new-technology/solar-on-historic.htm*

interconnection requirements of the electric utility. Off-grid systems are exempt from this requirement.

1. **Principal Uses.** Model Community encourages the development of commercial or utility scale solar energy systems where such systems present few land use conflicts with current and future development patterns. Community and large-scale systems are either conditional or permitted with site plan review, and are excluded elsewhere.

## Principal Use General Standards

* + 1. **Site Design**

***Plan Approval***

*This process is generally part of the process for obtaining a building permit. The standard that the model community typically uses for submittal requirements should be included here. If the community does not issue building permits, it can be tied to a land use permit instead. For rural areas or cities without zoning or building code standards, the plan approval section may be eliminated.*

* + - 1. **Setbacks** – Community- and large-scale solar arrays must meet the following setbacks:
         1. Property line setback from a non-participating landowner’s property line must meet the established setback for buildings or structures in the district in which the system is located, except as otherwise determined in 1.a.6 below.
         2. Property line setbacks between separate parcels both of which are participating in the project may be waived upon agreement of the landowner(s).

***Use Standards***

*Most communities require a conditional use permit for large-scale solar development.*

*The large size of such developments usually means that site-specific standards and design issues need to be considered. However, some communities have decided that sufficient oversight is provided by*

*the Planning Commission in review of standards, and have chosen to list the use as permitted in appropriate districts. This is a decision to be made by each community in light of its oversight and review standards. To encourage large-scale solar development, list it as a permitted use.*

* + - * 1. Roadway setback of 50 feet from the ROW of State highways and County and State Aid Highways (CSAHs), and 40 feet for other roads, except as otherwise determined in 1.a.6 below.
        2. Housing unit setback of 150 feet from any existing dwelling unit of a non-participating landowner, except as otherwise determined in 1.a.6 below. Participating landowner housing must meet building setbacks or required yards for the district in which the project is located.
        3. Setback distance should be measured from the edge of the solar energy system array, excluding security fencing, screening, or berm.

***Appropriate Setbacks***

*The community should consider balancing set-back requirements and screening requirements for principal use solar. Since the primary impact to neighbors of large- scale solar is visual, screening becomes less useful as the setbacks get larger (and vice versa).*

*The setback distances provided here are general examples that should be modified to be consistent with other setbacks already in the ordinance. Property line setbacks are typically not in excess of 50 feet, special setbacks for housing or existing sensitive land uses may be larger. Excessive setbacks that are unique to solar land uses, or that are designed for land uses with health and safety or significant nuisance risks such*

*as industrial uses or animal agriculture, are unjustified given the low level of risk or nuisance posed by the solar array. It is common for a participating landowner to agree to a setback shorter than stated in the established ordinance. In that case, a waiver of the setback should be allowed.*

* + - * 1. All setbacks can be reduced by 50%, except that unwaived setbacks cannot be less than 30 feet, if the array has a landscape buffer that screens the array at the setback point of measurement.
      1. **Screening** – Community- and large-scale solar energy systems shall be screened from existing residential dwellings.
         1. A landscape plan shall be submitted that identifies the type and extent of proposed buffer and screening. Vegetation or another type of buffer can be proposed.
         2. Screening shall be consistent with Model Community’s screening ordinance or standards typically applied for other land uses requiring screening.
         3. Screening shall not be required along highways or roadways, except as provided in 4. below, or along property lines within the same zoning district, except where the adjoining lot has an existing residential use.
         4. Model Community may require screening where it determines there is a clear community interest in maintaining a viewshed.

***Screening***

*The community should consider limiting screening of community- or large-scale solar to where there is a visual impact from an existing use, such as adjacent residential districts or uses. Screening standards should be consistent for solar with other land*

*uses that have screening requirements. Solar energy systems may not need to be screened from adjacent lots if those lots are in agricultural use, are non-residential, or have low-intensity commercial use.*

* + - 1. **Height** – Large- and community-scale solar energy systems shall not exceed 20 feet.
      2. **Ground cover and buffer areas (alternative A)** – Community- or large-scale ground-mounted solar energy systems are required to adhere to the following standards. Additional site-specific conditions may apply as required by Model Community.

***Importance of Ground Cover***

***Establishing and maintaining regionally appropriate ground cover creates important co-benefits for the community and the property owner. Grasses can be harvested for forage and wildflowers and blooming plants can create pollinator and bird habitat.***

***Maintaining the site in vegetation will build soils that can be turned back into agriculture at the end of the solar farm’s life.***

***If appropriately established, these ground cover standards also likely reduce maintenance costs and limit the need for chemical weed management, which also improves water quality outcomes.***

* + - * 1. Ground around and under solar panels and in project site buffer areas shall be planted, established, and maintained for the life of the solar project in perennial vegetated ground cover meeting the definition of Pollinator-Friendly Solar Energy in Section III above.

All applicants shall submit a completed pollinator-friendly solar scorecard such as the 2020 Indiana Solar Site Pollinator Habitat Planning Scorecard developed by Purdue University, or

***Options for Ground Cover Standards***

***Two options are offered for ground cover standards. Alternative A requires perennial vegetation consistent with local eco-systems that meets***

***the definition of “pollinator-friendly habitat,” demonstrated through completion of the Purdue University pollinator scorecard or a similar third- party Midwest relevant checklist. Pollinator-friendly or habitat-friendly ground cover is a solar best practice encouraged or required by communities and some states for solar development throughout the Midwest. The inherent visual and water quality benefits of pollinator habitat can provide a basis***

***to exempt the project from other landscaping and***

***water quality requirements.***

***Alternative B requires regionally appropriate perennial ground cover. If the developer elects to use pollinator-friendly ground cover and wants to label it as such, the Purdue (or other) scorecard must be used, and other landscaping and water quality requirements are waived.***

***Other alternatives are also available and can be considered. Some communities may choose to apply a pollinator standard only under certain conditions, such as for mitigating taking farmland out of production. Another alternative is to encourage compliance with a habitat standard but make requirement decisions on a case by case basis in the permit review process.***

a similar third-party solar pollinator standard designed for Midwest eco-systems and conditions.

When the scorecard results demonstrate the project does not qualify as pollinator-friendly, the applicant shall submit a landscaping plan detailing site conditions that prevent the site from being qualified and alternative means of meeting the water quality and habitat goals of the pollinator- friendly standard.

* + - * 1. The site shall be planted and maintained to be free of invasive or noxious species, as listed by the Indiana Invasive Species Council. No insecticide use is permitted on the site. This provision does not apply to insecticide use in on-site buildings, in and around electrical boxes, spot control of noxious weeds, or

as otherwise may be deemed necessary to protect public health and safety.

* + - * 1. Projects maintained as pollinator-friendly compliant are exempt from landscaping requirements and post-construction stormwater management controls (as stated in Section V. A.2. below) that may be otherwise required under Model Community’s development regulations, unless required due to special conditions by the plan commission or the Board of Zoning Appeals.
      1. **Ground cover and buffer areas (alternative B)** – Community- or large-scale ground-mounted solar energy systems are required to adhere to the following standards. Additional site-specific conditions may apply as required by Model Community.
         1. Ground around and under solar panels and in project site buffer areas shall be planted, established, and maintained for the life of the solar project in perennial vegetated ground cover.
         2. To the maximum extent feasible for site conditions, perennial vegetation ground cover shall be based on a diverse seed mix of native species consistent with guidance specific to the local area provided by

the Soil and Water Conservation District office or the Indiana Native Plant Society.

* + - * 1. The owner/operator shall demonstrate site maintenance that is intended to remove invasive or noxious species, as listed by the Indiana Invasive Species Council, without harming perennial vegetation.
        2. No insecticide use is permitted on the site. This provision does not apply to insecticide use in on-site buildings, in and around electrical boxes, spot control of noxious weeds, or as otherwise may be deemed necessary to protect public health and safety.
        3. Plant material must not have been treated with systemic insecticides, particularly neonicontinoids.
        4. Community- or large-scale ground-mounted solar energy systems that propose to install, establish, and maintain pollinator-friendly vegetative cover are to demonstrate the quality of their habitat by using guides such as Purdue University 2020 Indiana Solar Site Pollinator Habitat Planning Scorecard, or other third party solar-pollinator scorecards designed for Midwestern eco-systems, soils, and habitat.
        5. Projects certified and maintained as pollinator-friendly compliant are exempt from landscaping requirements and post-construction stormwater management controls (as stated in Section V. A.2. below) that may be otherwise required under Model Community’s development regulations, unless required due to special conditions by the plan commission or the Board of Zoning Appeals.
      1. **Foundations** – A qualified engineer shall certify, prior to application for building permits, that the foundation and design of the solar panel racking and support is within accepted professional standards, given local soil and climate conditions.

## Power and communication lines –

* + - * 1. Power and communication lines running between banks of solar panels and to nearby electric substations or interconnections with buildings shall be buried underground. Exemptions may be granted by Model Community in instances where shallow bedrock, water courses, or other elements of the natural landscape interfere with the ability to bury lines, or distance makes undergrounding infeasible, at the discretion of the zoning administrator.
        2. Power and communication lines between the project and the point of interconnection with the transmission system can be overhead.
      1. **Fencing** – Perimeter fencing for the site shall not include barbed wire or woven wire designs and shall preferably use wildlife-friendly fencing standards that include clearance at the bottom. Alternative fencing can be used if the site is incorporating agrivoltaics.
    1. **Stormwater and NPDES** – Large- and community-scale solar projects are subject to Model Community’s stormwater management and erosion and sediment control provisions and Nonpoint Pollution Discharge Elimination System (NPDES) permit requirements. Solar collectors shall not be considered impervious surfaces if the project complies with ground cover standards, as described in A.1.d and e of this ordinance.
    2. **Other standards and codes** – All large- and community-scale solar projects shall be in compliance with all applicable local, state and federal regulatory codes, including the State of Indiana Uniform Building Code, as amended; and the National Electric Code, as amended.

***Site Plan***

*Solar farm developers should provide a site plan similar to that required by the community for any other development. Refer to your existing ordinance to guide site plan submittal requirements.*

* + 1. **Site Plan Required** – The applicant shall submit a detailed site plan for both existing and proposed conditions, showing locations of all solar arrays, other structures, property lines, rights-of-way, service roads, floodplains, wetlands, and other protected natural

resources, topography, electric equipment, and all other characteristics requested by Model Community. The site plan should show all zoning districts and overlay districts.

* + 1. **Aviation Protection** – For large- and community-scale solar projects located within 500 feet of an airport or within approach zones of an airport, the applicant must

***Aviation Standards, Glare***

*This standard was developed for the FAA for solar installations on airport grounds. It can also be used for solar farm and garden development in areas adjacent to airports.*

*This standard is not appropriate for areas where reflected light is not a safety concern.*

complete and provide the results of a glare analysis through a qualitative analysis of potential impact, field test demonstration, or geometric analysis of ocular impact in consultation with the Federal Aviation Administration (FAA) Office of Airports, consistent with the Interim Policy, FAA Review of Solar Energy Projects on Federally Obligated Airports, or most recent version adopted by the FAA.

* + 1. **Agricultural Protection** – Large- and community-scale solar projects must comply with model community’s site assessment standards for identifying agricultural soils. Model Community may require mitigation for use of prime soils for solar array placement, including the following:

***Agricultural Protection***

***The agricultural protection section applies only to those communities that have adopted agricultural protection standards in their development regulations that apply to multiple types of development.***

***In those instances, this provision applies those same standards to solar development. The ordinance language is written for a community that requires assessment of soils, but not necessarily protection of those soils. Communities***

***should carefully evaluate to what degree solar development should be subject to the community’s agricultural protection standards.***

* + - 1. Demonstrating co-location of agricultural uses (agrivoltaics) on the project site.
      2. Using an interim use or time-limited Conditional Use Permit (CUP) that allows the site to be returned to agriculture at the end of life of the solar installation.
      3. Locating the project in a wellhead protection area for the purpose of removing agricultural uses from high risk recharge areas.
      4. Using pollinator-friendly ground cover, as defined in Section III.
    1. **Decommissioning** – A decommissioning plan shall be required to ensure that facilities are properly removed after their useful life.

***Solar and Prime Soils***

***Solar farms do not pose the same level or type of risk to agricultural practices or prime farm soil, as does housing or commercial development.***

* ***State stormwater standards require, in most cases, establishment of perennial vegetation over the solar project site by the end of construction. The groundcover at solar farms will protect agricultural soil, build nutrients, prevent erosion, and improve topsoil quality at the site.***
* ***Some forms of agriculture can be co- located with solar development, including grazing, small crop production, and apiaries.***
* ***Solar farms can be easily turned back to agriculture at the end of the solar farm’s life (now being estimated to be 35 years).***
  + - 1. Decommissioning of the system must occur in the event the project does not produce power for 12 consecutive months. An owner may petition for an extension of this period upon showing of reasonable circumstances that have caused the delay in the start of decommissioning.
      2. The plan shall include provisions for removal of all structures and foundations to a depth of 48”, restoration of soil and vegetation and assurances that financial resources will be available to fully decommission the site.
      3. Disposal of structures and/or foundations shall meet the provisions of the Model Community Solid Waste Ordinance.
      4. Model Community may require the posting of a bond, letter of credit, a parent guarantee, or other financial surety to ensure proper decommissioning.
      5. The value of the decommission bond or letter of credit should consider the salvage value of the solar equipment.
  1. **Community-Scale Solar** – Model Community permits the development of community-scale solar, subject to the following standards and requirements:

***Drinking Water Protection***

*In identifying preferred areas or districts for solar principal uses, the community should consider*

*co-benefits of solar energy development. One such potential co-benefit is protection of drinking water supplies. Solar energy development may be intentionally sited within vulnerable portions of*

*public water supply systems as a best management practice to restore and protect perennial groundcover that reduces nitrate contamination of ground water supplies.*

* + 1. **Rooftop shared solar systems permitted** – Rooftop systems are permitted in all districts where buildings are permitted.
    2. **Community-scale uses** – Ground-mounted community- scale solar energy systems must cover no more than ten acres (project boundaries), and are a permitted use in industrial and agricultural districts, and permitted with standards or conditional in all other non-residential districts. Ground-mounted solar developments covering more than ten acres shall be considered large-scale solar.

***Defining Community-Scale Solar***

*The acreage size for community-scale solar garden written here (10 acres) is the high end of project size for a one-megawatt system, but community-scale could be defined as high as 10 megawatts (100-acre project size). Community-scale solar is the size that can fit in to the landscape.*

* + 1. **Dimensional standards** - All structures must comply with setback and height standards for the district in which the system is located.
    2. **Other standards** - Ground-mounted systems must comply with all required standards for structures in the district in which the system is located.

***Community-Scale Solar or Solar Gardens***

*Community solar systems differ from rooftop or solar farm installations primarily in regards to system ownership and disposition of the electricity generated, rather than land use considerations. There is, however, a somewhat greater community interest in community solar, and thus communities should consider creating a separate land use category.*

*This language limits the size of the garden to ten acres, which is an installation of no more than one MW of solar capacity. Communities should tailor this size limit to community standards, which may be smaller or larger.*

* 1. **Large-Scale Solar** – Ground-mounted solar energy arrays that are the principal use on the lot are permitted under the following standards:

***Large-Scale Solar Conditional Uses***

*Communities can determine if large -scale solar should require a conditional use or permitted-use permit for the community to consider the site-specific conditions.*

*The districts listed here are examples. Each community needs to consider where large scale solar is suitable in the context of its zoning districts and priorities.*

* + 1. **Conditional use permit** – Large- and community-scale solar projects are conditional uses in agricultural districts, industrial districts, shoreland and floodplain overlay districts, airport safety zones subject to V.A.5. of this ordinance, and in the landfill/brownfield overlay district for sites that have completed remediation.

## Example Use Table

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Use Type** | **Residential** | **Mixed Use** | **Business** | **Industrial** | **Agricultural,**  **Rural, Landfill** | **Shoreland** | **Floodplain** | **Special (Con- servation, His- toric Districts)** |
| Large-scale solar | X | X | X | C/PS | C/PS | C | C | C |
| Community-  scale solar | C | C | C | P | P | PS | PS | PS |
| Accessory use ground-mount- ed solar | P | P | P | P | P | P | C | C |
| Rooftop solar | P | P | P | P | P | P | P | PS |

P = Permitted

PS = Permitted Special (additional separate permit or review) C = Conditional

X = Prohibited

***Solar as a Land Use***

*The above use table shows four types of solar development that are distinct types of land uses (two kinds of accessory uses, two principal uses), and a group of districts or overlays that are commonly used in Indiana.*

* *Rooftop system are permitted in all districts where buildings are permitted, with recognition that historic districts will have special standards or permits separate from the zoning permits.*
* *Accessory use ground-mounted systems are conditional where potentially in conflict with the primary district or overlay goal.*
* *Community-scale solar principal uses are either conditional uses or permitted uses, depending on the community decisions. Permitted uses are where a 10-acre development can be integrated into the landscape, and require special consideration in shoreland and floodplain overlay districts.*
* *Large-scale solar is prohibited in higher density districts and conditional or permitted with separate permit review in all other districts.*

*Both community- and large-scale solar is allowed in shoreland and floodplain overlay districts, because the site design standards requiring beneficial habitat ground cover not only ensure a low-impact development but in most cases result in a restoration of eco-system services from the previous (usually agricultural) use.*

## Renewable Energy Condition for Certain Permits

1. **Condition for Planned Unit Development (PUD) Approval -** Model Community may require on-site renewable energy systems, zero- net-energy (ZNE) or zero-net-carbon (ZNC) building designs, solar- synchronized electric vehicle charging or other clean energy systems as a condition for approval of a PUD permit to mitigate for:

***Renewable Energy Conditions, Incentives***

*The community can use traditional development tools such as conditional use permits, PUDs, or other discretionary permits to encourage private investment in solar energy systems as part of new*

*development or redevelopment. This model ordinance notes these opportunities for consideration by local governments. In most cases, additional ordinance language would need to be tailored to the community’s ordinances.*

*For instance, a provision that PUDs (or other special district or flexible design standard) incorporate solar energy should be incorporated into the community’s PUD ordinance rather than being a provision of the solar standards.*

*Conditional use permits generally include conditions, and those conditions can include renewable energy or zero net energy design, but only if the conditions are clearly given preference in adopted policy or plans providing the Board of Zoning Appeals with clear guidance for approving the conditions. Explicit reference to climate or energy independence goals in the ordinance and explicit preference for such conditions*

*will set a foundation for including such conditions in the permit.*

* 1. Impacts on the performance of the electric distribution system,
  2. Increased local emissions of greenhouse gases associated with the proposal,
  3. Need for electric vehicle charging infrastructure to offset transportation-related emissions for trips generated by the new development, and
  4. Other impacts of the proposed development that are inconsistent with the Model Community Comprehensive Plan.

1. **Condition for Conditional Use Permit** - Model Community may require on-site renewable energy systems or zero net energy

construction as a condition for a rezoning or a conditional use permit.

1. **Solar Roof Incentives.** Model Community encourages incorporating on-site renewable energy system or zero net energy construction for new construction and redevelopment. Model Community may require on-site renewable energy or zero-net- energy construction when issuing a conditional use permit where the project has access to local energy

resources, in order to ensure consistency with Model Community’s plan to reduce greenhouse gas emissions.

* 1. **Density Bonus** - Any application for subdivision of land in the Districts that will allow the development of at least four (4) new lots of record shall be allowed to increase the maximum number of lots by 10% or one lot, whichever is greater, provided all building and wastewater setbacks can be met with the increased density, if the applicant enters into a development agreement guaranteeing at least three (3) kilowatts of PV for each new residence that has a solar resource.

***Solar Roof Incentives***

*This section of the model ordinance includes a series of incentives that can be incorporated into development regulation. Most cities and many counties use incentives to encourage public amenities or preferred design. These same tools and*

*incentives can be used to encourage private investment in solar energy. Communities should use incentives that are already offered, and simply extend that incentive to appropriate solar development.*

*Some of the incentives noted here are not zoning incentives, but fit more readily into incentive programs offered by the*

*community (such as financing or incentive- based design standards).*

* 1. **Solar-Ready Buildings** – Model Community encourages builders to use a solar-ready design in buildings. Buildings that submit a

completed U.S. EPA Renewable Energy Ready Home Solar Photovoltaic Checklist (or other approved solar- ready standard) and associated documentation will be certified as a Model Community solar

ready home, and be eligible for low-cost financing through Model Community’s Economic Development Authority. The designation will be included in the home’s permit history.

* 1. **Solar Access Variance** – When a developer requests a variance from Model Community’s subdivision solar access standards, the zoning administrator may grant an administrative exception from the solar access standards provided the applicant meets the conditions of 1. and 2. below:

***Solar-Ready Buildings***

*New buildings can be built “solar-ready” at very low cost (in some cases the marginal cost is zero). Solar energy installation*

*costs continue to decline in both real and absolute terms, and are already competitive with retail electric costs in*

*many areas. If new buildings have a rooftop solar resource, it is likely that someone will want to put a solar energy system on the building in the future. A solar ready building greatly reduces the installation cost, both*

*in terms of reducing labor costs of retrofits and by “pre-approving” most of the installation relative to building codes.*

*A community’s housing and building stock is a form of infrastructure that, although built by the private sector, remains in*

*the community when the homeowner or business leaves the community.*

*Encouraging solar-ready construction ensures that current and future owners can take economic advantage of their solar resource when doing so makes the most sense for them.*

* + 1. **Solar Access Lots Identified** - At least 20% of the lots, or a minimum number of lots to be determined by Model Community.
    2. **Covenant Assigned** - Solar access lots are assigned a covenant that homes built upon these lots must include a solar energy system. Photovoltaic systems must be at least three (3) KW in capacity.
    3. **Additional Fees Waived** - Model Community may waive any additional fees for filing of the covenant.

***Solar Access Subdivision Design***

*Some communities will require solar orientation in the subdivision ordinance, such as requiring an east-west street orientation within 20 degrees in order to maximize lot exposure to solar resources. However, many such requirements are difficult to meet due to site constraints*

*or inconsistency with other requirements (such as connectivity with surrounding street networks). Rather than simply grant a variance, the community can add a condition that lots with good solar access actually be developed as solar homes.*

**Appendix A**

The following list contains solar ordinances proposed and adopted in Indiana. This list has not been vetted by the authors of Indiana’s Model Solar Ordinance; instead, this list is intended to provide examples of what has already been adopted.

|  |  |  |
| --- | --- | --- |
| **List of Solar Ordinances Adopted by Local Governments in Indiana**  *Last Updated October 2020* | | |
| **Local Government** | **Adoption Date** | **Ordinance Link** |
| City of Goshen | 2012; Amended in 2017 | [Goshen Zoning Ordinance > Solar Energy System](https://goshenindiana.org/media/uploads/0/5587_Article-V-pp-141-198--12-4-18.pdf) [Regulations](https://goshenindiana.org/media/uploads/0/5587_Article-V-pp-141-198--12-4-18.pdf) |
| City of Plymouth | 2017; Amended in 2019 | [City of Plymouth Zoning Ordinance Solar Energy](http://plymouthin.com/files/5415/6839/5643/Plymouth_Zoning_Ordinance_Sep_2019.pdf)  [Standards](http://plymouthin.com/files/5415/6839/5643/Plymouth_Zoning_Ordinance_Sep_2019.pdf) |
| City of South Bend | 2019 | [South Bend Zoning Ordinance > Solar](http://docs.southbendin.gov/weblink/0/edoc/314805/21-06%20%20Uses.pdf) |
| Elkhart County | Dec 2014, Effective Feb 2015;  Amended Jan 2020 | Elkhart County Zoning Ordinance > Solar Panel Array |
| Fulton County | Unknown | [Fulton County Zoning Ordinance > Solar Energy](https://www.co.fulton.in.us/egov/documents/1547130715_58067.pdf)  [Systems Standard](https://www.co.fulton.in.us/egov/documents/1547130715_58067.pdf) |
| Henry County | (proposed) | [Draf t Ordinance as of Oct 2020](http://www.henryco.net/attachments/Henry%20County%20Draft%20Solar%20Ordinance.pdf) |
| Lake County | Sep 2020 | Lake County Zoning Ordinance |
| Marshall County | 2017; Amended Jan 2020\* | [Marshall County Zoning Ordinance > Solar Energy](https://permits.schneidercorp.com/branding/marshallcountyin/Zoning%20Ordinance%20Binder%208.17.2020.pdf)  [Systems](https://permits.schneidercorp.com/branding/marshallcountyin/Zoning%20Ordinance%20Binder%208.17.2020.pdf) |
| Porter County | Apr 2020 | [Porter County Unified Development Ordinance](https://www.porterco.org/DocumentCenter/View/10077/Solar-Ordinance-Chps-2-5-and-10_Ord-20-11) [Amendment > Solar Ordinance Chaps. 2, 5 and 10](https://www.porterco.org/DocumentCenter/View/10077/Solar-Ordinance-Chps-2-5-and-10_Ord-20-11) |
| Posey County | Mar 2020 | [Posey County Zoning Ordinance > Renewable](https://www.poseycountyin.gov/wp-content/uploads/2020/05/Wind-Solar-Ordinance-Poseyville-Cynthiana-Mt-Vernon.pdf) [Energy Generation Systems for Cynthiana,](https://www.poseycountyin.gov/wp-content/uploads/2020/05/Wind-Solar-Ordinance-Poseyville-Cynthiana-Mt-Vernon.pdf) [Poseyville, and Mount Vernon](https://www.poseycountyin.gov/wp-content/uploads/2020/05/Wind-Solar-Ordinance-Poseyville-Cynthiana-Mt-Vernon.pdf) |
| Posey County | Mar 2020 | [Posey County Zoning Ordinance > Renewable](https://www.poseycountyin.gov/wp-content/uploads/2020/03/Solar-and-Wind-Ordinace-for-Unincorporated-Posey-County.pdf) [Energy Generation Systems for Unincorporated](https://www.poseycountyin.gov/wp-content/uploads/2020/03/Solar-and-Wind-Ordinace-for-Unincorporated-Posey-County.pdf) [Areas](https://www.poseycountyin.gov/wp-content/uploads/2020/03/Solar-and-Wind-Ordinace-for-Unincorporated-Posey-County.pdf) |
| Pulaski County | Dec 2019, Effective Jan 2020 | [Pulaski County Unified Development Ordinance](http://gov.pulaskionline.org/wp-content/uploads/sites/4/2019/12/CountyUDO2020.pdf)  [> Wind Energy Convergence and Solar Energy](http://gov.pulaskionline.org/wp-content/uploads/sites/4/2019/12/CountyUDO2020.pdf)  [Systems](http://gov.pulaskionline.org/wp-content/uploads/sites/4/2019/12/CountyUDO2020.pdf) |
| Randolph County | Jul 2020 | [Randolph County Solar Energy Systems Siting](https://randolphcounty.us/files/rc/randolph_county_solar_ordinance_1.pdf) [Regulations](https://randolphcounty.us/files/rc/randolph_county_solar_ordinance_1.pdf) |
| Shelby County | Jul 2018 | [Shelby County Unified Development Ordinance >](https://www.co.shelby.in.us/plan-commission/comprehensive-plan/) [Commercial Solar Energy Systems Standards](https://www.co.shelby.in.us/plan-commission/comprehensive-plan/) |
| St. Joseph County | Feb 2020 | [St. Joseph County Zoning Ordinance > Special](http://sjcindiana.com/DocumentCenter/View/1392/Section-154505---Renewable-Energy-Systems) [Regulations for Renewable Energy Systems](http://sjcindiana.com/DocumentCenter/View/1392/Section-154505---Renewable-Energy-Systems) |
| Starke County | Jun 2019 | [Starke County Solar Energy Ordinance](http://co.starke.in.us/ordinances/2019/Solar%20Energy%20Ordinance%202019-10.pdf) |
| White County | Jan 2019 | [White County Zoning Ordinance > Solar Farms and](https://www.whitecountyin.us/pdfs/ap/2008_Zoning_Ordinance-Updated_through_031620.pdf)  [Solar Energy Systems](https://www.whitecountyin.us/pdfs/ap/2008_Zoning_Ordinance-Updated_through_031620.pdf) |

\*under moratorium until 2021 to address decommissioning in the ordinance