

Town of Baldwin
Solar Energy Systems Permitting Ordinance

Be it enacted by the Town Board of the Town of Baldwin as follows:

ORDINANCE NO. 2026-03-05

Section 1 – Title

The title of this Ordinance is Solar Energy Systems Permitting.

The Town of Baldwin, St. Croix County, State of Wisconsin ordinance as follows:

Section 2 – Purpose and Application

1) Purpose:

- a) The Town of Baldwin (hereinafter also referred to as the “Town”) finds that while solar energy is a semi-renewable energy resource of electricity generation, and under some circumstances it may reduce the use of nonrenewable energy sources, the possible benefits must be balanced against potential negative impacts to local citizens, agricultural foundation, local economy, and local ecosystems.

- b) Therefore, it is important that installation of Solar Energy Systems (hereinafter also referred to as “Systems” or “SES”) is accomplished in a safe, clean, and orderly manner that will minimize potential adverse biological, agricultural, visual, and other environmental impacts. Pursuant to the authority granted by Wis. Stats. § 66.0401, this Ordinance is enacted to provide for Town review of proposed Solar Energy Systems and to ensure such systems are properly installed and are sited in a manner that will minimize any adverse impacts without significantly increasing the cost or efficiency of the proposed system or which permits an alternate system of comparable cost or efficiency. To require the operator of a proposed Solar Energy System to be located in the Town of Baldwin to obtain a permit from the Town prior to beginning construction activities in order to protect public health and safety, to minimize or prevent potential adverse off-site impacts from on-site and off-site operations and to promote the general welfare of the people and communities within the Town of Baldwin.

2) Application:

This Ordinance shall apply to all Solar Energy Systems as defined in Section 4- Permits and Section 11- Definitions.

3) Authority:

This Ordinance is adopted under the powers granted to the Town of Baldwin by Wis. Stats. §60.10, Wis. Stats. §60.22 (3), and Wis. Stats. §61.34, its authority under Wis. Stats. §66.0401 and Wis. Stats. §66.0403, and other authority under statutes, and its adoption of

Town of Baldwin
Solar Energy Systems Permitting Ordinance

village powers under Wis. Stats. §60.10 (2)(c). Any amendment, repeal or recreation of the statutes relating to this Ordinance made after the effective date of this Ordinance is incorporated into this Ordinance by reference on the effective date of the amendment, repeal, or recreation.

Section 3 – General Procedures

Where applicable, County zoning permits and conditional use permits shall be applied through and reviewed under the procedures established following the St. Croix County Code of Ordinances, including Building Permit and Electrical Permit issuance. Applications will also be reviewed for consistency with the Town of Baldwin Comprehensive Plan in order to be in compliance with Wis. Stats. §66.1001(3).

All elements of the Solar Energy System are to comply with all applicable State, County and Town regulations.

Section 4 – Permits Required

1) Permit Requirement

No person or entity shall commence construction activities on a Solar Energy System or operation of a Solar Energy System in the Town without first obtaining a permit from the Town board (“solar permit or permit”). The requirements for applying for a solar permit is provided in Section 6.

2) Permit Term

An initial permit term may be approved for a maximum of fifteen (15) years. A permit renewal may be for a term of up to ten (10) years. The operator shall make a written request to the Town Clerk for a renewal of the permit no later than 120 days from the date the permit will expire.

Permit Amendment

If the Town has issued a solar permit, the operator may request an amendment to that permit during the permit term, using the same process as applies to an original permit application.

3) Permit Transfer

A solar permit may be assigned or transferred without the express written consent of the Town upon delivery to the Town the documentation that the transferee agrees to be bound by the obligations of the permit under this Ordinance and any developer agreement between the Town and the permittee.

4) Permit Revocation

Town of Baldwin Solar Energy Systems Permitting Ordinance

A solar permit may be suspended or revoked under the procedure established in Section 12.

- 5) In addition to a building permit and electrical permit, a separate solar permit is required for a Solar Energy System installation as follows:
 - a) Roof-mounted and wall-mounted Small Scale Solar Energy Systems, as identified in Section 7, generating less than 40 kW of power shall be administratively reviewed/permitted by the Building Inspector without the need for Town Board approval.
 - b) Ground-mounted and pole-mounted Small Scale Solar Energy Systems, as identified in Section 7, generating less than forty (40) kW of power shall administratively reviewed/permitted by the Building Inspector without the need for Town Board approval.
 - c) Ground-mounted and pole-mounted Mid-Scale Solar Energy Systems, as identified in Section 7, generating greater than forty (40) kW of power shall require Planning Commission review and Town Board approval.
 - d) Large Scale Solar Energy Systems, as identified in Section 7, exceeding 100 MW of power shall require Planning Commission review and Town Board approval.
 - e) The requirement for a permit may not be avoided by successive installations each of which are smaller than the thresholds established herein. If a successive installation is presented (two or more installations within a 3-year period), such applications will require Town review/approval.
 - f) All permits shall be subject to the Town's fee schedule approved by the Town Board.
 - g) Approval process flow chart:

BUILDING PERMIT REQUIRED FOR ALL INSTALLATIONS

SES TYPE	SMALL SCALE	MID-SCALE	LARGE SCALE
Approval Requirement	Permit & Inspection	Planning Commission, Town Board Approval & Permit	Planning Commission, Town Board Approval & Permit
Ground Mounted	40 kw or less	>40 kw <100 MW	≥100 MW
Roof	Any	NA	NA
Wall	Any	NA	NA

*MW (Megawatt) *kW (kilowatt)

Town of Baldwin

Solar Energy Systems Permitting Ordinance

Section 5 – Exempt Installations

The following installations are exempt from a solar permit:

- 1) If solar panels and any accompanying equipment are mounted upon the roof of a principal structure or accessory structure and the accessory structure is erected primarily for purposes other than for the mounting of solar energy equipment a building permit is only needed.
- 2) Installations oriented for public purposes, such as small panel installations for signage and lighting & related equipment within the right-of-way. One panel, or larger, installations within the right-of-way require a permit and Town Board approval.
- 3) Installations for Municipality owned public building or facilities, such as wastewater treatment plants, water treatment plants, water well houses, lift stations, municipal buildings, fire & emergency management facilities, and water towers.

Section 6 – Application

An application for a permit under this Ordinance shall be submitted to the Town Clerk for Mid-scale and Large scale projects and the building inspector for small scale projects, in accordance with the Town’s current policy and procedures and shall contain the following information:

- 1) A description of the Solar Energy System including size, method of installation, amount of power to be generated and whether the facility is for private residential or business use or for commercial energy production. The description shall also include technical specifications and supporting calculations necessary to demonstrate the structural integrity of the installation including, but not limited to the ability to withstand wind.
- 2) Site Plan. The site plan shall include the following information:
 - a) Existing Conditions
 - i) Property lines.
 - ii) Building(s).
 - iii) Proposed installation location(s) and details.
 - iv) Existing land use and features (woods, cropland, slopes exceeding 12%, wetlands, etc.)

Town of Baldwin
Solar Energy Systems Permitting Ordinance

- v) For Large Solar Energy Systems, existing sound, and vibration measurement, following the Wisconsin Department of Natural Resources Measurement Protocol for Sound and Vibration Assessment of Proposed and Existing Electric Power Plants (2008, or current version).
- vi) Robotic inspection of every foot of drainage tile, repair of any inoperable drainage tile in advance of any SES construction and re-inspection every three years. All video footage to be placed with Town.
- vii) In order to establish a base line of heavy metals, toxic materials and/or contaminants existing in soils, surface water and well water prior to the start of Solar Energy Systems construction, samples shall be taken and tested for current quality. All test results shall be furnished to the Town. Please note that permission from the well owner must be obtained prior to sampling.

3) Proposed Plan

- a) Proposed location and spacing of solar collectors.
- b) Proposed location of access roads for ground-mounted installations greater than 40 kilowatts of panels.
- c) Proposed planned location of underground or overhead electric lines connecting the system to the building, substation, or other electric load.
- d) Location of proposed new electrical equipment other than at the existing building or substation that is the connection point for the system.
- e) Proposed erosion and sediment control measures.
- f) Proposed stormwater management measures.
- g) Sketch or schematic elevation of the premises accurately depicting the proposed Solar Energy System and its relationship to any buildings or structures on adjacent lots.
- h) A description of the proposed method of connecting the system to a building or substation.
- i) Proposed maintenance plan for grounds surrounding the system, including storm follow-up, and other actions that will be taken to keep the Solar Energy System operating quietly, efficiently, and not polluting land, water, or air.

Town of Baldwin
Solar Energy Systems Permitting Ordinance

- j) Proposed plan outlining the use, storage, and disposal of chemicals used in the cleaning of the collectors and/or reflectors.
 - k) Proposed plan for the storage, operation, maintenance and possible disposal of any batteries serving the system.
 - l) Scaled elevation drawing covering the proposed facilities on the property.
 - m) A description and drawing showing the screening/landscaping plan being proposed.
 - n) Proposed safety and security plan.
 - o) For ground-mounted installations with greater than 40 kilowatts of panels, a health, safety, endangered species, and environmental sustainability plan is required.
 - p) For ground-mounted installations with greater than 40 kilowatts of panels, a geotechnical report for the site from a qualified geotechnical engineer. (Township reserves the right to seek corroboration from a different geotechnical engineer of their choice for validation).
 - q) For ground-mounted installations with greater than 40 kilowatts of panels, a proposed sound and vibration level study, following the Wisconsin Department of Natural Resources Measurement Protocol for Sound and Vibration Assessment of Proposed and Existing Electric Power Plants (2008, or current version).
 - r) For ground-mounted installations with greater than 40 kilowatts of panels a decommissioning plan outlining the anticipated means and cost of removing the system at the end of its serviceable life or upon it becoming discontinued use. The plan shall also identify the financial resources set aside to pay for the decommissioning and removal of the system.
 - s) Health, safety, endangered species, water quality, soil quality, and environmental sustainability plan.
- 4) Miscellaneous
- a) The name(s), address, and telephone number of the owner of the property upon which the system is to be installed. If the applicant is different than the property owner, then this information shall be provided for the applicant as well. Also, the name and address of the party responsible for maintaining the system.
 - b) An explanation of the factors considered in citing the facility at its proposed location.

Town of Baldwin
Solar Energy Systems Permitting Ordinance

- c) The name(s), address, and telephone number of all neighboring Towns, and Villages within five (5) miles of the proposed location.
- d) The name(s), address, and telephone number of all neighboring property owners adjacent to the proposed location.

Section 7 – Solar System Regulations

1) Minimum Standards

The Town Board shall grant a solar permit if it finds that the proposed System will be consistent with the following minimum standards and the purposes of this Ordinance. Pursuant to Wisconsin Law, evaluation of these standards requires a case-by-case evaluation. The following standards shall be applicable to all Solar Energy Systems:

- a) Systems shall be designed and operated in a manner that protects public safety.
- b) Systems shall be compliant with any applicable local, state, and federal regulatory standards, including, but not limited to, the State of Wisconsin Uniform Building Code, as amended, and the National Electric Code, as amended.
- c) At the discretion of the Building Inspector, systems proposed for attachment to a building or structure shall include a structural certification prepared by a registered professional engineer licensed in the state of Wisconsin.
- d) The construction of the Solar Energy System will limit the hours of operation at the site to 7:00 AM to 7:00 PM Monday through Friday or for activities causing excessive light to be shed from the site onto neighboring properties, to avoid disturbance of the use and enjoyment of neighboring properties.
- e) The operator of the Solar Energy System will limit night lighting to the level that is minimally necessary for security and worker safety. Every effort, consistent with legal requirements for safety, shall be made to minimize illumination of the night sky and neighboring properties.
- f) The operator of the Solar Energy System will control off-site noise levels to the extent practicable to avoid adverse impacts on neighboring properties, particularly during construction activities. The operator shall comply with all applicable noise limits.
- g) Systems that result in the creation of one (1) or more acres of land disturbance, must provide plans that comply with the WI DNR NR 216 and NR 151 Construction Stormwater Permit Requirements prior to final stormwater and erosion control

Town of Baldwin

Solar Energy Systems Permitting Ordinance

permitting at the Town.

- h) Systems shall not be used to display advertising, including signage, streamers, pennants, spinners, reflectors, ribbons, tinsel, balloons, flags, banners, or similar materials. The manufacturers and equipment information, warning, or indication of ownership shall be allowed on any equipment of the Solar Energy System provided they comply with the prevailing sign regulations.
- i) Tree removal shall be minimized and mitigated in accordance with proper site design. For all Large scale systems, any proposed removal of trees covering more than ten percent (10%) of a parcel will require a Town approved mitigation plan.
- j) Screening and/or sound reducing mechanisms are required for all Large Solar Energy Systems, and any installation where noise producing infrastructure is located outdoors.
- k) The applicant shall submit a decommissioning plan, in accordance with Section 8 of the Ordinance, with the permit application.
- l) Systems shall be designed to integrate into the architecture of the building or site, to the extent such provisions do not diminish the solar production or increase energy costs.
- m) Systems shall be designed and operated to prevent the misdirection of reflected solar radiation onto adjacent or nearby property, public roads, or other areas open to the public. Measures to minimize misdirection of reflected solar radiation may be required, including modifying the surface material, placement or orientation of the system and, if necessary, adding screening to block glare.
- n) If the proposed Solar Energy System is within five (5) miles of other neighboring municipalities, the Applicant shall provide written notification of this application to those municipalities.
- o) Power inverters and any sound-producing equipment shall be at least five hundred (500) feet from any existing residential dwelling(s) adjacent to the Parcel covered by the application. If that five hundred (500) foot distance is not reasonably available and this requirement cannot be met, then a Large Solar Energy System application submitted shall include a plan for screening or another sound barrier to reduce the sound emanating onto an adjacent parcel, to a level no more than 35 dB (at boundary line), which plan shall be subject to the review and approval of the Town.
- p) Two or more confirmed violations regarding noise from a Solar Energy System within a twelve (12) month period, or failure to upkeep/maintain necessary screening for

Town of Baldwin

Solar Energy Systems Permitting Ordinance

the same, may be deemed a nuisance or a violation of this ordinance.

2) Roof-mounted Solar Energy Systems

The following standards shall apply to roof mounted Solar Energy Systems:

- a) Roof-mounted Solar Energy Systems shall not exceed by more than four (4) feet the existing maximum roofline at the point of installation.
- b) In addition to the structure setback, the collector surface, and mounting devices for roof-mounted solar systems shall not extend beyond the exterior perimeter of the structure on which the system is mounted or built.
- c) The collector and racking for roof-mounted systems that have a greater pitch than the roof surface shall be set back from all roof edges by at least two (2) feet.
- d) Exterior piping for roof-mounted solar hot water systems may extend beyond the perimeter of the structure on side and rear yard exposures.
- e) Roof-mounted solar systems, excluding building-integrated systems, shall not cover more than eighty percent (80%) of the surface upon which the collectors are mounted.

3) Ground-mounted and pole-mounted Solar Energy Systems

The following standards shall apply to ground and pole-mounted Solar Energy Systems:

- a) Ground and pole-mounted systems shall not exceed ten (10) feet in height measured from the top of the panel frame when oriented at maximum design tilt.
- b) Ground and pole-mounted systems shall not extend into the side-yard, rear, or road right-of-way setback when oriented at minimum design tilt.
- c) Ground and pole-mounted systems shall have natural ground cover under and between the collectors and surrounding the system's foundations or mounting device(s).
- d) The total collector surface area of pole or ground-mount systems shall not exceed fifty percent (50%) of the building footprint of the principal structure for systems located in all residential and commercial zoning districts.

4) Wall-mounted Solar Energy Systems

The following standard shall apply to wall-mounted Solar Energy Systems:

Town of Baldwin
Solar Energy Systems Permitting Ordinance

- a) In residential zoning districts, wall-mounted Solar Energy Systems shall cover no more than twenty-five percent (25%) of any exterior wall facing a front yard.
- 5) Accessory-mounted Solar Energy Systems
The following standard shall apply to accessory Solar Energy Systems:
- a) Accessory-mounted Solar Energy Systems must meet all setback requirements pertinent to accessory structures for the zoning district in which the structure is situated.
 - b) Accessory-mounted Solar Energy Systems shall not be located nearer the front lot line than the principal building on the lot.
- 6) Photovoltaic Solar Energy Systems
The following standards shall apply to Photovoltaic Solar Energy Systems:
- a) For Photovoltaic Solar Energy Systems, the electrical disconnect switch shall be clearly identified and unobstructed.
 - b) No grid-intertie Photovoltaic Solar Energy System shall be installed until documentation has been given to the Town that the owner has notified the utility company of the customer's intent to install an interconnected customer-owned generator. Documentation may consist of an interconnection agreement or a written explanation from the utility provider or contractor outlining why an interconnection agreement is not necessary. Off-grid systems are exempt from this requirement.
 - c) Photovoltaic Solar Energy System components must have an Underwriters Laboratory (UL) listing and solar hot water systems must have a Solar Rating & Certification Corporation (SRCC) rating.
- 7) Large Scale Solar Energy Systems
For purposes of this Ordinance, all Large Scale Solar Energy Systems shall be considered as commercial structures. All applications for a Primary Use Energy System shall be conditioned upon entering into a Memorandum of Understanding with the Town that addresses how the applicant will comply with the requirements of this Section. The following standards shall apply to Large Solar Energy Systems, to be reviewed by the Planning Commission and subject to Town Board approval under the Permit review process.
- a) All elements of the system shall meet or exceed all district regulations based on the applicable zoning district.

Town of Baldwin
Solar Energy Systems Permitting Ordinance

- b) Systems that result in the creation of one (1) or more acres of land disturbance, must provide plans that comply with the WI DNR NR 216 and NR 151 Construction Stormwater Permit Requirements prior to final stormwater and erosion control permitting by the Town.
- c) The manufacturer's engineer or another qualified engineer shall certify that the soils/foundation and design of the Solar Energy System is within accepted professional standards licensed in the State of Wisconsin.
- d) Power and communication lines running between banks of solar collectors and to electric substations or interconnections with buildings shall be buried underground. Exemptions may be granted in instances where shallow bedrock, water courses, or other elements of the natural landscape interfere with the ability to bury lines.
- e) Vegetative screening of the system may be required as a part of Site Plan Review and/or the conditions of approval and it shall be based on the proximity of the system to residential buildings and to abutting public rights-of-way. If screening is required, the vegetation shall be at the permittee's cost and consist of canopy and conifer trees at a hedge row at minimum.
- f) The applicant shall complete a sound and vibration level study, following the Wisconsin Department of Natural Resources Measurement Protocol for Sound and Vibration Assessment of Proposed and Existing Electric Power Plants (2008, or current version).
- g) The applicant shall document and provide a copy to the town of the existing sound and vibration by measurement, following the Wisconsin Department of Natural Resources Measurement Protocol for Sound and Vibration Assessment of Proposed and Existing Electric Power Plants (2008, or current version).
- h) The proposed plan outlining the use, storage, and disposal of chemicals used in the cleaning of the collectors and/or reflectors shall be provided.
- i) The proposed plan for the storage, operation, maintenance and possible disposal of any batteries serving the project shall be provided.
- j) The proposed plan for safety and security shall be submitted.
- k) A decommissioning plan per Section 8 shall be completed and shall outline the anticipated means and cost of removing the system at the end of its serviceable life or upon it becoming a discontinued use. The plan shall also identify the financial resources to be set aside to pay for the decommissioning and removal of the

Town of Baldwin

Solar Energy Systems Permitting Ordinance

system.

- l) Confirmation of the site's health, safety, retention or avoidance of endangered species and environmental sustainability. Bird diverters and wildlife fencing to exceed full extension of panels.

- m) The applicant shall obtain the approval of a Town approved engineer or appointee for erosion and runoff control measures as required by the Town and County Ordinances prior to grading, utility installation, or any other land disturbance activity. The topsoil shall not be removed during development. If topsoil is removed it must be stockpiled and remain on site for site reclamation. Separate approvals shall be obtained for each activity. The applicant shall adhere to conditions of the approval and shall grant the right of re-entry to the property to designated personnel of the Town to inspect and monitor compliance with this requirement. Erosion control measures shall comply with the Wisconsin Construction Site Best Management Practice Handbook.

- n) The primary roads to be used by applicant shall be determined by the Town as part of the permit issuing process. Immediately after determining the primary roads, the Town and applicant shall document the condition of the primary roads. Documentation shall consist of, among other things, taking a video inventory of the primary roads to establish existing conditions and rating the primary roads according to the PASER Road Inventory System. Except as otherwise noted below, the primary roads described above, which shall be used for all trucks, loaded and unloaded, entering or leaving the project shall be the only roads used by the applicant during the construction of the project. Once the primary roads are determined, the applicant and the Town shall discuss and mutually agree upon a Project specific road agreement. The terms of the road agreement shall include but not be limited to the extent and frequency of when applicant shall make repairs to the primary roads. Monthly, or at a lesser interval if so chosen by the Town, applicant and the Town approved engineer or appointee shall conduct an inspection of the primary roads and, if necessary, applicant shall be required to pay for repairs and/or improvements satisfactory to the Town to restore the primary roads to the condition documented at the commencement of the Project or better. Upon the conclusion of the Project, a final inspection and review shall be conducted by the Town and applicant and final repairs and/or improvements made by the Town at the expense of the applicant as required by this paragraph (n) shall be made prior to the release of applicant's financial guaranty as required by section (o).

- o) The applicant/owner shall obtain and deposit with the Town of Baldwin Clerk a financial guaranty consisting of an Irrevocable Letter of Credit in the amount to be determined by the Town to guarantee the performance of all of its obligations for the project, including maintenance and reconstruction of all primary roads identified for

Town of Baldwin

Solar Energy Systems Permitting Ordinance

the installation of the Large Solar Energy System. The financial guaranty shall run in favor of the Town and shall be in a form acceptable to the Town. The financial guaranty shall guarantee the applicant's obligations for the project and that, in the event the parties are unable to agree on the maintenance or reconstruction of any primary road at any time, the financial guarantee will be available to the Town for that purpose.

- p) The applicant shall immediately notify the Town Board of the occurrence and nature of any Solar Energy System Emergency. Solar Energy Systems emergencies include any form of emergency requiring the notification and/or assistance of fire, police, and other appropriate first responders.

The applicant shall establish and maintain a liaison with the Town Board and with fire, police, and other appropriate first responders serving the Solar Energy System to create effective emergency plans that include: current emergency contact information for first responders and the Solar Energy System, written procedures and duties of responsibilities of all parties in handling different types of Solar Energy System emergencies, and an emergency evacuation plan for the area within one (1) mile of the Solar Energy System.

The applicant shall also review the emergency plan at least annually in collaboration with fire, police, and other appropriate first responders to update and improve the emergency plan as needed as well as distribute current copies of the emergency plan to the Town Board, fire, police, and other appropriate first responders as identified by the Town Board.

The Town Board shall require the applicant to provide annual training for fire, police, and other appropriate first responders regarding responding to a Solar Energy System emergency until the Solar Energy System has been decommissioned.

The applicant shall be responsible for all costs associated with any Solar Energy Systems emergency including actual costs of any/all fire calls, police calls, and other appropriate first responder calls.

- q) Other than the fencing directly surrounding the project substation, O&M (operation and maintenance) and BESS (battery energy storage system) the Project's perimeter fencing shall consist of "deer fencing" (wire mesh), which is a ten-foot-tall woven wire partition with wooden posts. Fences will be set 50 feet within/inside property lines or rights-of-way edges. Bird diverters must be installed. Installed fencing shall be adequately maintained at all times during the Project's operation. The depths of the fence posts shall be installed per prudent engineering practice based on the height of the fence and the type and slope of the terrain. Impairments to either the woven wire or wooden posts that are aesthetically unpleasing shall be remedied

Town of Baldwin

Solar Energy Systems Permitting Ordinance

within two (2) weeks of written notification. “Leaning” of the fence shall not be allowed to exceed plus or minus 10 degrees of perpendicular. In the event leaning or tilting of the fence does occur, it will be corrected back to perpendicular within two (2) weeks of receiving written notice on the issue or the Town may fine the applicant thrice the cost it would take to repair it.

- r) Applicant shall contract with an experienced and qualified regional drain tile contractor to gather information concerning participating landowner drain tile, and mitigate the landowner and non-participating landowners’ drainage issues where significant impact is expected as a result of drain tile alteration. The applicant shall identify drain tile concerns at the pre-construction and post-construction meetings to finalize remedies to known drainage issues on either participating or non-participating property. Applicant shall receive, investigate, and remedy drain tile issues due to the Project that arise subsequent to the post-construction meeting pursuant to the Drain Tile Management Plan filed by applicant and approved by the Town. If drainage infrastructure or systems are damaged by the Project and result is reduced drainage performance that adversely affects non-participating landowners, applicant shall restore the drainage infrastructure or system to pre-existing condition or better in accordance with the Drain Tile Management Plan. Pre-existing conditions shall mean the flow capacity existing immediately prior to the Project commencing construction. If previous flow capacity cannot be determined, applicant and landowners agree to negotiate an adequate solution. Applicant is responsible for all expenses related to repairs, restoration, relocations, reconfigurations and replacements of drainage infrastructure and systems that are damaged by the Project as provided in the Drain Tile Management Plan. The intent of this Section is to make landowners whole where drainage infrastructure or systems are damaged by the Project. For example, and without limitation due to enumeration, if damage to drainage infrastructure or systems is caused by the Project on a participating property (“Project-related Damage”), and the Project-related Damage causes damages to non-participating property owners upstream of the Project-related Damage, including crop loss and/or blowout damage to the drain tile system on the non-participating owner’s property, Project Owner shall compensate the non-participating owner for crop loss and for repairs to the non-participating property owner’s drain tile system. Applicant agrees to cooperate with non-participating landowners as outlined in the Drain Tile Management Plan that desire to repair or replace drainage tile affecting their properties to the extent that such work does not interfere with the Project or its related facilities. Applicant will not withhold approval for access to the Property that lies outside of any fenced array area, to the extent participating property owners also agree to such access.
- s) The applicant shall hire a regionally qualified consultant to create a ground cover and vegetation management plan for the construction and operation of the project. Consultation shall occur with the Town during the pre-construction meeting and

Town of Baldwin Solar Energy Systems Permitting Ordinance

post-construction meeting. The topsoil shall not be removed during development. If topsoil is moved it must be stockpiled and remain on site for site reclamation. Any topsoil removed shall require approval from the Town. The Project will utilize native plants and grasses across the project's developed area and incorporate pollinator habitat. During Project operation, the applicant will mow, and otherwise maintain all developed acreage inside the fence, along the fence, and between the fence and property lines.

- t) The Project shall not be used for any type of advertising. The Project may erect and maintain a single project identification sign. The Project shall be minimally lighted so as not to disturb neighboring properties. Necessary lighting to provide safety and security of facilities shall be approved by the Town Board. Applicant will provide the Town with a description of permanent Project lighting plans when available. Applicant shall contact every owner of residential property immediately adjacent to solar arrays and discuss a reasonable, strategically located visual buffer of plants that shall be installed at applicant's expense prior to the completion of construction of the Project. Where applicant and the adjacent property owner are unable to agree on the type of visual buffer and the adjacent property owner makes a request in writing to applicant to provide a visual buffer, the applicant shall install a vegetative buffer on the Project site equal to the length of the non-participating residence and designed to achieve at least 50% opacity at ground level within 5 years. Proposals and plans for vegetative buffers will be finalized by the post-construction meeting. Applicant shall be required to replace any vegetative buffer that dies.
- u) Applicant agrees to install the solar arrays with a minimum setback of:
 - i) Two hundred (200) feet from the edge of the right of way of public roads; and
 - ii) A minimum of two hundred (200) feet from the property boundary lines of non-participating landowners or upon written request a lesser distance is agreed upon but not less than a ten (10) foot setback from property boundary; and
 - iii) A minimum of ten (10) feet setback from participating adjoining landowners, unless a larger setback is necessary in order to preserve public health and safety based on a case-by-case analysis or a similar application.
- v) The applicant acknowledges that the Town has and will incur certain administrative and/or legal costs for, among other things, processing, posting, or mailing of public hearing notifications, studying and/or drafting documents and reviewing the integrity of the primary roads serving as access to the property. As a condition of obtaining a permit, the applicant agrees to pay all of the necessary administrative, engineering and legal costs incurred by the Town for, among other things, processing, posting, or mailing of public hearing notifications, studying, redrafting documents and to

Town of Baldwin

Solar Energy Systems Permitting Ordinance

ensure the integrity of that portion of any primary road serving as an access to a facility site. Applicant understands the legal and/or engineering consultants retained by the Town are acting exclusively on behalf of the Town and not the applicant. Applicant agrees to reimburse the Town for all administrative expenses within 30 days of billing. In the event applicant defaults in the payment of such expenses, in addition to any other remedies which the Town may be entitled, the Town may take funds from the financial guaranty set forth in (o) above and the Town shall recover from applicant all of its costs in enforcing this Ordinance including attorney fees.

8) Miscellaneous

- a) All Solar Energy Systems shall be installed following the Manufacturer's specifications and recommended installation methods for all major equipment, mounting systems, and foundations for poles or racks.
- b) All property owners shall provide the Town with a signed copy of the interconnection agreement with the local electric utility or a written explanation outlining why an interconnection agreement is not necessary.
- c) As a condition of approval for all Mid-Scale and Large Scale Solar Energy Systems, the applicant will specifically address the issues of maintenance and repair of primary roads, utilities to the system, the effect the system may have on first responders, specific vegetation required for screening the system and the specific terms of the decommission plan.
- d) In connection with construction, operation and maintenance of electric collection lines, communications cables and other equipment, Project facilities may cross road rights-of-way and/or drainage systems. Project Owner shall obtain all permits typically required of others, such as driveway permits and right-of-way crossing permits. It is agreed that all road right-of-way crossing shall be by underground borings perpendicular to the right-of-way, plus or minus 30 degrees. All underground borings shall commence and terminate outside of the right-of-way.
- e) The applicant shall assure the Town that there will be no loss in real property value within two miles of the Solar Energy System. To legally support this claim, the applicant shall consent in writing to a Real Property Value Protection Agreement as a condition of approval for the Solar Energy System. This Agreement shall provide assurance to non-participating real property owners near the Solar Energy System that they have some protection from Solar Energy System-related real property value losses.

Town of Baldwin
Solar Energy Systems Permitting Ordinance

Section 8 – Decommissioning:

The following provisions shall apply to decommissioning:

- 1) Decommissioning of the system must occur within one (1) year from the end of the system’s permitted life or from the time that the system becomes a discontinued use. A system shall be considered a discontinued use after one (1) year without energy production, unless a plan is developed and timely submitted to the Town outlining the steps and schedule for returning the system to service.

- 2) Decommissioning shall consist of the following:
 - a) The removal of the system’s equipment and the removal of the system’s foundation to a depth of at least five (5) feet under the surface of the ground. An exemption from this requirement may be granted by the Town if it is determined that the removal of the foundation will significantly increase erosion and/or significantly disrupt vegetation on the site.

 - b) Disposal of all solid and hazardous waste in accordance with local, state, and federal waste disposal regulations.

 - c) The stabilization of soils and/or re-vegetation of the site as necessary to minimize erosion and promote soil nutrient and soil carrying capacity.

 - d) A Town approved engineer or appointee shall conduct an inspection of the primary roads and, if necessary, applicant shall be required to pay for repairs and/or improvements satisfactory to the Town to restore the primary roads to the condition documented at the commencement of the Project or better. Upon the conclusion of the Project, a final inspection and review shall be conducted by the Town and applicant and final repairs and/or improvements made by the Town as required by this paragraph (d) shall be made prior to the release of applicant’s financial guaranty as required by Section 7. 7) o).

- 3) The decommissioning shall occur in accordance with the decommissioning plan approved by the Town, or any plan amendment approved by the Town.

- 4) The applicant shall provide the Town with a date of the systems discontinued use and then one (1) year to begin the decommissioning process of the system. If decommissioning does not begin, Town shall commence with penalties.

- 5) At the time of permitting, all applicants and land owners shall obtain and deposit with the Town of Baldwin Clerk a financial guaranty consisting of an Irrevocable Letter of Credit in an amount to be determined by a Town approved/appointed Engineer to guarantee the performance of all of its obligations concerning the decommissioning of

Town of Baldwin

Solar Energy Systems Permitting Ordinance

the project. The surety shall run in favor of the Town and shall be in a form acceptable to the Town and/or Town Attorney. The surety shall guarantee the applicant's obligations under this Agreement and that, in the event the parties are unable to agree on the steps required to complete decommissioning, the surety will be available to the Town for that purpose.

- 6) The applicant acknowledges that the Town has and will incur certain administrative and/or legal costs for, among other things, processing, drafting documents and reviewing the decommissioning of the project. The applicant agrees to pay all of the necessary administrative, engineering and legal costs incurred by the Town for, among other things, processing, studying, redrafting documents and to ensure the integrity of the decommissioning process. Applicant understands the legal and/or engineering consultants retained by the Town are acting exclusively on behalf of the Town and not the applicant. Applicant agrees to reimburse the Town for all administrative expenses within thirty (30) days of billing. In the event applicant defaults in the payment of such expenses, in addition to any other remedies which the Town may be entitled, the Town may take funds for the financial guaranty as set forth in (5) above, the Town shall recover from applicant all of its costs in enforcing this Ordinance including attorney fees.

Section 9 – Review

- 1) The Planning Commission shall review all required applications under this Ordinance within forty-five (45) days of a complete submittal and make its recommendation to the Town Board. The Planning Commission may recommend approval, effective upon the satisfaction of conditions, or denial. The Planning Commission's recommendation shall be made to further the purposes of this Ordinance. The Town Board must approve/deny the application within ninety (90) days of the complete application recommendation from the Planning Commission. The Planning Commission may not recommend any condition or deny a permit unless it finds such recommendation satisfies one of the following conditions:
 - a) Does not significantly increase the cost of the system or significantly decrease its efficiency.
 - b) Allows for an alternative system of comparable cost and efficiency.
 - c) Adequately addresses all potential impacts to adjoining residential properties, including sound level, screening impacts, and water and soil impacts.
- 2) The Town Board shall begin its review of the application and Planning Commission's recommendation at its next meeting after receipt of the Planning Commission's recommendation. The Town Board may accept, reject, or modify the Planning Commission's recommendation under the same criteria as applied for the Planning

Town of Baldwin

Solar Energy Systems Permitting Ordinance

Commission's review.

- 3) The Planning Commission or the Town Board may request that the applicant submit additional information if the Planning Commission or Town Board determines that the application is incomplete, or if the Planning Commission or Town Board determines that additional information is needed to determine whether the requested approval will meet the requirements of this Ordinance.
- 4) Decision by the Town Board.
 - a) Notice and hearing:
Decision.
Upon receipt of the Planning Commission recommendation, the Town Clerk shall place the recommendation on the Town's website or typical posting places and make it available for public inspection at the Town Hall. The Town Board shall set a date for a public hearing on the application for a solar permit, give Class II public notice and post the notice in the designated posting places at least fifteen (15) days prior to the date scheduled for the hearing, and mail the notice to all neighboring landowners. At the public hearing, the Town Board shall take public comment on the application.
 - b) Town Board Final Decision:
Following the receipt of the public comments at the public hearing and any submitted written comments the Town Board may make a final decision whether to grant a solar permit or set a date for a subsequent Town Board meeting during which the Town Board will make a final decision.
 - c) Basis of Proposed and Final Decisions:
The Town Board shall base its decision on a review of the application, any available retained experts' reports, public comments and information provided at the public hearing, and other relevant information at the discretion of the Town Board.
 - d) In case of an application for solar permit, the Town Board shall grant the permit if it determines that the operation of the System will be consistent with standards and purposes of this Ordinance.
 - e) In the case of a request for renewal of a permit, the Town Board shall grant the request for renewal if it finds that there have been no material violations of the Ordinance or the permit which have not been appropriately remedied, the operator has not received multiple or recurring citations or orders for violations of the solar permit or this Ordinance. If the Town Board denies an application for a solar permit or denies a request for renewal of a permit, the Town Board shall notify the applicant

Town of Baldwin Solar Energy Systems Permitting Ordinance

in writing.

- f) Any person aggrieved by the action taken by the Board may appeal as provided by Wisconsin statutes.

Section 10 – Fees

- 1) An application under this Ordinance shall be accompanied by a fee in accordance with the Town's fee schedule. No action may be taken on the application until such fee is paid.
- 2) If the application is for Mid-Scale and Large Scale Solar Energy System or a Primary Use Solar Energy System, the application shall be accompanied by fees, as provided under the Town's Fee Schedule and a Reimbursement Services Agreement, signed by the applicant, and the property owner if different from the applicant, to reimburse the Town for all actual costs incurred reviewing the application, including but not limited to consultants' fees for attorneys, engineers, planners or other relevant specialists. Final approval may not be effective until all such costs are reimbursed according to the agreement.
- 3) Upon board approval of a Solar Energy System application a solar permit fee will be required prior to the issuance of the permit in accordance with the Town's Fee Schedule.

Section 11 – Definitions

The following terms are commonly used in the electric production/transmission trade, these terms may or may not be applicable to this ordinance but are relevant to all Solar Energy Systems discussions.

Awning –

A sheet of material stretched on a frame and used to keep the sun or rain off a storefront, window, doorway, patio or deck.

Construction activities –

The initiation of any construction, land clearing or land disturbance related to construction, installation or operation of solar energy systems.

Decibel –

A unit of measure of sound pressure.

dB(A), A-Weighted Sound Level –

A measure of overall sound pressure level in decibels, designed to reflect the response of the human ear.

Town of Baldwin

Solar Energy Systems Permitting Ordinance

Generator Nameplate Capacity –

The maximum rated output of electrical power production of a generator under specific conditions designated by the manufacturer with a nameplate physically attached to the generator.

Kilowatt (kW) –

A kW or kilowatt is a unit of measurement for the rate of power an electrical device or load uses. The higher the kW of a device, the more electrical power is needed to operate it. A kilowatt is 1000 watts (W).

Maximum Design Tilt (Solar Energy System) -

Maximum tilt, or angle, is vertical, or ninety (90) degrees for a Solar Energy System designed to track daily or seasonal sun position or capable of manual adjustment on a fixed rack.

Megawatt (MW) –

A megawatt (MW) is a unit of power that equates to one million watts. When a power source is rated as one megawatt, it means it has the capacity to deliver energy at a rate of one million joules per second.

Minimum Design Tilt (Solar Energy System) –

Minimum tilt, or angle, is horizontal, or zero (0) degrees for a Solar Energy System designed to track daily or seasonal sun position or capable of manual adjustment on a fixed rack.

Nameplate Capacity –

The total maximum rated output of a Solar Energy System.

Panel –

A solar collector of approximately 20 nominal square feet or 3-4 feet in width by 4-6 feet in height.

Power Line –

An overhead or underground conductor and associated facilities used for the transmission or distribution of electricity.

Power Purchase Agreement –

A legally enforceable agreement between two or more persons where one or more of the signatories agrees to provide electrical power and one or more of the signatories agrees to purchase the power.

Pure Tone –

A sound composed of a single frequency.

Qualified Independent Acoustical Consultant –

A person with Full Membership in the Institute of Noise Control Engineers (INCE), or

Town of Baldwin

Solar Energy Systems Permitting Ordinance

other demonstrated acoustical engineering certification. The Independent Qualified Acoustical Consultant can have no financial or other connection to an applicant.

Real Property Line –

The imaginary line along the ground surface, and its vertical extension, which separates the real property owned by one person from that owned by another person.

Receptor –

Structures intended for human habitation, whether inhabited or not, including but not limited to churches, schools, hospitals, public parks, state and federal wildlife areas, the manicured areas of recreational establishments designed for public use, including but not limited to golf courses, and campgrounds.

Renewable Energy –

Energy from sources that are not easily depleted such as moving water (hydro, tidal and wave power), biomass, geothermal energy, solar energy, wind energy and energy from solid waste treatment plants.

Roof Pitch –

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

Solar Collector –

A device, structure, or part of a device or structure for which the primary purpose is to transform solar radiant energy into thermal, mechanical, chemical, or electrical energy.

Solar Daylighting –

A device specifically designed to capture and redirect the visible portion of the solar spectrum, while controlling the infrared portion, for use in illuminating interior building spaces in lieu of artificial lighting.

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 Device –

A system or series of mechanisms designed primarily to provide heating, cooling, electrical power, mechanical power, solar daylighting or to provide any combination of the foregoing by means of collecting and transferring solar generated energy into such uses either by active or passive means. Said systems may also have the capacity to store energy for future utilization. Passive Solar Energy Systems shall clearly be designed as a solar energy device, such as a Trombe Wall, and not merely part of a normal structure, such as a window.

Town of Baldwin

Solar Energy Systems Permitting Ordinance

Solar Energy System –

A set of devices that the primary purpose is to collect solar energy and convert and store it for useful purposes including heating and cooling buildings or other energy-using processes, or to produce generated power by means of any combination of collecting, transferring, or converting solar energy. This definition also includes structural design features, the purpose of which is to provide daylight for interior lighting. This also includes transmission facilities dedicated to the Solar Energy System.

Solar Energy System, Accessory Use –

A Solar Energy System that is secondary to the primary use of the parcel on which it is located, and which is directly connected to or designed to serve the energy needs of the primary use. Excess power may be sold to a power company.

Solar Energy System, Active -

A Solar Energy System whose primary purpose is to harvest energy by transforming solar energy into another form of energy or transferring heat from a collector to another medium using mechanical, electrical, or chemical means.

Solar Energy System, Building Integrated –

An active 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. Such systems include, but are not limited to, Solar Energy Systems that function as roofing materials, windows, skylights, and awnings.

Solar Energy Systems, Grid-intertie –

A photovoltaic Solar Energy System that is connected to an electric circuit served by an electric utility company.

Solar Energy System, Ground-mounted –

A solar collector, or collectors, located on the surface of the ground. The collector or collectors may or may not be physically affixed or attached to the ground. Ground-mounted systems include pole-mounted systems.

Solar Energy System, Small (Small scale) –

A privately owned Solar Energy System generating less than 40kW consisting of panels and supporting equipment.

Solar Energy System, Mid (Mid-scale) –

A commercial Solar Energy System generating between 40kW to 100MW consisting of panels and supporting equipment.

Solar Energy System, Large (Large scale) –

A commercial Solar Energy System generating 100MW or consisting of panels and supporting equipment.

Town of Baldwin

Solar Energy Systems Permitting Ordinance

Solar Energy System, Off-grid –

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.

Solar Energy System, Passive –

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

Solar Energy System, Photovoltaic –

An active Solar Energy System that converts solar energy directly into electricity.

Solar Energy System, Primary Use –

A Large Scale Solar Energy System which generates power for sale to a power company, or other off-premise consumer.

Solar Energy System, Reflecting –

A Solar Energy System that employs one or more devices designed to reflect solar radiation onto a solar collector. This definition includes systems of mirrors that track and focus sunlight onto collectors located at a focal point. The collectors may be thermal or photovoltaic.

Solar Energy System, Roof-mounted –

A solar collector, or collectors, located on the roof of a building or structure. The collector or collectors may or may not be physically affixed or attached to the roof.

Solar Heat Exchanger –

A component of a solar energy device that is used to transfer heat from one substance to another, either liquid or gas.

Solar Hot Air System –

Also referred to as solar air heat, or a solar furnace. An active 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 typically means vertically mounted on a south-facing wall.

Solar Hot Water System –

Also referred to as a solar thermal. A system that includes a solar collector and heat exchanger that heats or preheats water for building heating systems or other hot water needs, including domestic hot water and hot water for commercial or industrial purposes.

Solar Mounting Devices –

Devices that allow the mounting of a solar collector onto a roof surface, wall, or the ground.

Town of Baldwin

Solar Energy Systems Permitting Ordinance

Substation –

Any electrical facility containing power conversion equipment designed for interconnection with power lines.

Transmission line –

See Power Line.

Total Nameplate Capacity –

The total of the maximum rated output of the electrical power production equipment for a combined solar project.

Section 12 – Inspection, Violation, Remedies and Enforcement

1) Inspection:

The Town Board, a retained expert, or another authorized representative of the Town, may make inspections or undertake other investigations to determine the condition of the System in the Town to safeguard the health and safety of the public and to determine compliance with this Ordinance, upon showing proper identification and providing reasonable notice.

2) Violations:

The following are violations under this Ordinance:

- a) Engaging in construction, installation, or operation of a System without a solar permit granted by the Town Board.
- b) Failure to comply with the applicable minimum standards and other terms of this Ordinance and established industry standards.
- c) Making an incorrect or false statement, including the information and documentation submitted during the permitting process or during inspection by the Town or its duly appointed representative, or a representative of another regulatory agency.
- d) Failure to comply with any conditions of an approval or permit, or any agreements entered into as a condition of approving a permit.
- e) Failure to take appropriate action in response to a notice of violation or citation, or other order issued by the Town.

3) Remedies:

The Town Board may take any appropriate action or proceeding against any person in

Town of Baldwin

Solar Energy Systems Permitting Ordinance

violation of this Ordinance, including the following:

- a) Issue a stop work order.
 - b) Issue a notice of violation and order that specifies the action to be taken to remedy a situation.
 - c) Issue a citation.
 - d) Refer the matter to legal counsel for consideration and commencement of legal action, including the assessment of forfeiture.
 - e) Suspend or revoke the solar permit in the event there were repeated exceedances of the standards or conditions incorporated into a solar permit application/ plan
- 4) Enforcement:
- Enforcement of this Ordinance shall follow written notice from the Town and a failure of the permit holder to cure the violation(s). Prior to any revocation or suspension of a solar permit the permit holder shall be entitled to a hearing before the Town Board. Forfeitures shall be listed in the Towns Fee Schedule, together with the costs of prosecution.
- a) Enforcement may also be in the form of injunctive relief. If injunctive relief is sought and granted, the defaulting party shall pay all the Town's cost and expenses, including attorney's fees, incurred in enforcing the provisions of this Ordinance, whether incurred prior to or after the commencement of any lawsuit. Unpaid amounts shall bear interest at the rate of twelve percent (12%) per annum if not paid within thirty (30) days of billings.
 - b) A failure by the Town to take active on any past violation(s) shall not constitute a waiver of the Town's right to take action on any present or future violation(s).

Section 13 – Severability

Should any section, clause, provision, standard or portion of this Ordinance be adjudged unconstitutional or invalid, unlawful or unenforceable by a final order of a court of competent jurisdiction, the remainder of this Ordinance shall remain in full force and effect.

If any application of this Ordinance to a particular parcel of land or System or project is adjudged unconstitutional or invalid by a final order of a court of competent jurisdiction, such judgment shall not be applicable to any other parcel of

Town of Baldwin
Solar Energy Systems Permitting Ordinance

land not specifically included in said judgment, unless specifically required by the court.

The provisions of this Ordinance shall be liberally construed in favor of the Town and shall not be construed to limit or repeal any other power now possessed by or granted to the Town.

Town of Baldwin
Solar Energy Systems Permitting Ordinance

Section 14 – Effective Date

This Ordinance shall be effective upon publication and posting as provided by law.

The foregoing ordinance was adopted at a regular meeting of the Town Board of the Town of Baldwin on this 5th day of March, 2026.

Voted: For: X Against: _____

Douglas Veene
Douglas Veene, Chairman

For: X Against: _____

Don L. Johnson
Don L. Johnson, Supervisor

For: X Against: _____

Joseph Kusilek
Joseph Kusilek, Supervisor

Posted within 30 days of passage on March 11, 2026 at the following locations:

Summary @ Town Hall, Collection Ctr. & Baldwin Bulletin
Full document: Website and Town files

Attest: James Harer
James Harer, Clerk

Planning Commission recommends board approval of joint meeting changes.

Revised: March 3, 2026

Public Information meeting: March 5, 2026

Board approval: March 5, 2026

Saved town laptop-ordinance file-FINAL Solar Energy Systems Permit Ordinance 2026-03-05