ORDINANCE NO.	
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### AN ORDINANCE AMENDING ORDINANCE NO. BEING THE UNIFIED ZONING ORDINANCE OF TIPPECANOE COUNTY.

Be it ordained by the (County Commissioners of Tippecanoe County, Indiana; the Common Council of the City of Lafayette, Indiana; the Common Council of the City of West Lafayette, Indiana; the Town Council of the Town of Battle Ground, Indiana; the Town Council of the Town of Dayton, Indiana; and the Town Council of Clarks Hill, Indiana), that Ordinance No. , being the Unified Zoning Ordinance of Tippecanoe County is hereby amended as follows:

Section 1: Change UZO Section 1-10-2 Words and Terms Defined to add the following definitions:

ABANDONED. Regarding solar energy systems, a SES that does not generate electricity for a continuous twelve (12) month period, or any solar energy system falling into a state of disrepair for twelve consecutive months shall be deemed abandoned. ACCESSORY SOLAR ENERGY SYSTEM. The ground-mounted or buildingmounted SES, accessory to a primary use.

BUILDING-MOUNTED SOLAR ENERGY SYSTEM. An SES in which solar panels are structurally mounted to a building.

COMMUNITY-SCALE SOLAR ENERGY SYSTEM. A ground-mounted SES on less than 10 acres or a **building-mounted SES** on any amount of acreage that provides power to residential or commercial or industrial uses located on-site or off-site from the location of the solar energy generation.

**CONCENTRATED SOLAR POWER (CSP).** A solar energy system that uses mirrors to reflect and concentrate sunlight. CSP is not permitted in any zone.

GROUND-MOUNTED SOLAR ENERGY SYSTEM. An SES that is directly installed into the ground and is not attached or affixed to an existing building.

**INVERTER.** A device that converts direct current (DC) to alternating current (AC). LARGE-SCALE SOLAR ENERGY SYSTEM. A ground-mounted solar energy system, on a tract(s) equal to or more than ten acres, for the purpose of generating photovoltaic power with the primary purpose of selling wholesale or retail generated electricity.

**MEGAWATT (MW).** A metric unit measurement of the use of electrical power equal to 1000 Kilowatts (kW).

**MOUNTING DEVICES.** Racking, frames, or other devices that allow the mounting of a solar energy system onto a roof surface or the ground.

SOLAR ENERGY SYSTEM (SES). A system (including solar collector surface and ancillary solar equipment) either affixed to a permanent primary or accessory building or functioning as a freestanding structure, that collects, stores, and distributes solar energy for uses including but not limited to heating or cooling, generating electricity, or heating water.

**Section 2:** Change **UZO 3-2 Primary Use Table** by adding the following:

sd bs		D 11				Re	eside	ntial	Zon	es						Co	mme	ercial	Zon	ies				Ind. Zns.1		R	ural	Zone	es	
Parking Groups	Special Conditions	Permitted Primary Uses	R1	RIA	R1B	RIU	R1Z	R2	R2U	R3	R3U	R3W	R4W	NB	NBU	OR	MR	MRU	GB	HB	CB	CBW	11	12	13	A	AA	AW	RE	FP
	4-11-14	"Large-Scale Solar Energy Systems"														s							P	P	P	s	s	s		
	4-11-15	"Community- Scale Solar Energy Systems"	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	

Section 3: Change UZO 4-1 (b) Accessory Uses, Accessory Structures and **Accessory Buildings** (residential) to include:

### (30) accessory solar energy systems:

- (A) Building-mounted solar energy systems may project a maximum of three feet beyond the front or rear of the building and must be within the property lines.
- (B) Side setback for building-mounted solar energy systems (considered as structural projections) as regulated in UZO 4-4-5 below.
- (C) **Ground-mounted solar energy systems setback.** (standard)
- (D) Ground-mounted solar energy systems shall be exempt from lot coverage requirements.

Section 4: Change UZO 4-1 (c) Accessory Uses, Accessory Structures and **Accessory Buildings** (non-residential) to include:

### (28) accessory solar energy systems:

- (A) **Building-mounted solar energy systems** may project a maximum of three feet beyond the front or rear of the building and must be within the property line.
- (B) Side setback for building-mounted solar energy systems (considered as **structural projections**) as regulated in UZO 4-4-5 below.
- (C) **Ground-mounted solar energy systems setback** (standard).
- (D) Ground-mounted solar energy systems shall be exempt from lot coverage requirements.

Section 5: Add UZO 4-5-1 (d) Height of the accessory solar energy system:

- (1) Building-mounted solar energy systems may exceed the maximum allowed **building height** on which it is located by five feet at the maximum incline (tilt).
- (2) **Ground-mounted solar energy systems** shall have a maximum height of 15 feel. Except in rural zones, where the maximum height of 20 feet shall be permitted.

## Section 6: Add UZO 4-11-14 Large Scale Solar Energy System as follows:

- (a) A large-scale solar energy system is exempt from UZO 4-6 and lot coverage requirements.
- (b) A pre-submission meeting is required before submitting a **special exception** request or an *improvement location permit* application. Both property owner and applicant must attend and shall be prepared to explain the justification for an SES proposal at the pre-submission meeting.
- (c) An applicant or a property owner shall submit the following with a special **exception** request or an *improvement location permit* application.
  - (1) A large-scale solar energy system site plan shall also include the following:
    - (A) All solar panels, **mounting devices**, and **inverters** shall be **setback** 50 feet from all property lines.
    - (B) Solar *inverters* shall be *setback* a minimum of 200 feet when abutting a residential use property line or residential zone.
    - (C) The height shall be calculated as the distance from ground level to the top of the solar panel at its greatest incline (tilt).
    - (D) All solar panels, as well as all **mounting devices**, shall be a minimum of 36 inches above ground level as measured from any ground point to the closest point of any solar panel or mounting devices.
    - (E) A security fence at least 6' high shall be installed around the *large*scale solar energy system with emergency access allowed 24/7.
    - (F) Power transmission lines from a *large-scale solar energy system* shall be underground and shall be completely shielded against shock hazard. Lines that connect one panel to another or from the system to the main transmission lines are not required to be underground.
    - (G) Driveway entrances shall comply with UZO 4-7.
  - (2) A stormwater management plan shall be reviewed and approved by the participating jurisdiction.
  - (3) All driveway entrances shall be approved by the participating jurisdiction.
  - (4) Any approval, if required from the Federal Aviation Administration regulations, for installations surrounding airports shall conform to UZO 5-3.
  - (5) All applicable approvals from federal, state and local agencies.
  - (6) A Bufferyard is required as per UZO 4-9 except when waived by the Administrative Officer.

- (7) Pollinator-friendly seed mixes and native plants plan approved by a Registered Landscape Architect or Certified Ecologist or Licensed Horticulturist, are required around/under a large-scale solar energy system.
- (8) The site shall be planted and maintained to be free of all invasive species, as listed by the Indiana Invasive Species Council.
- (9) An applicant shall provide a redacted version of the executed power purchase agreement.
- (d) Decommissioning plan and removal requirements:
  - (1) A decommissioning plan for a *large-scale solar energy system* shall be approved by the ABZA when special exception is required or by the Administrative Officer for systems permitted by right, prior to issuance of the *improvement location permit*. An approved decommissioning plan shall be recorded in the office of the Tippecanoe County Recorder.
  - (2) A decommissioning plan shall include removal of all solar electric systems, buildings, cabling, electrical components, security fence, driveway entrance, foundations, pilings, and any other associated facilities, pollinator friendly seed mixes and native plants, so that any agricultural ground upon which the facility or system was located is again tillable and suitable for agricultural uses. However, the landowner may request in writing that the existing pollinator friendly seed mixes and native plants, driveway entrance, security fence or other land surface areas not be restored, and this request shall be approved by the ABZA or the Administrative Officer. Hazardous materials, including mounting devices from a large-scale solar energy system shall be disposed of in accordance with federal and state law.
  - (3) A final decommissioning plan shall be certified by a Professional Engineer, or a Registered Land Surveyor, or a Registered Landscape Architect.
  - (4) An applicant or a property owner shall provide an itemized cost estimate using the template in **Appendix L** to decommission the *large-scale solar* **energy system** prepared by a Professional Engineer who has expertise in the removal of solar facilities to the ABZA or the Administrative Officer. A cost estimate shall not include any estimates or offsets for the resale or salvage values of the large-scale solar energy system equipment and materials.
  - (5) An applicant or a property owner shall be required to file a surety using a form in Appendix L, acceptable to the APC's legal counsel or Administrative Officer, for the estimated amount, approved by the ABZA when **special exception** is required or by **the Administrative Officer** for systems permitted by right, prior to the issuance of an improvement location permit.
  - (6) A decommissioning cost estimate shall include a mechanism for calculating increased removal costs due to inflation. This cost estimate shall be recalculated every five years and the surety shall be updated to reflect the

- change. Failure to renew the cost estimate and update the surety every five years shall void the grant of special exception.
- (7) An applicant or a property owner shall file and receive an approval for a demolition permit before decommissioning begins.
- (8) When a decommissioning is complete, an applicant or a property owner shall submit the final report outlining the completion of the decommissioning plan to the ABZA if granted through special exception or the Administrative Officer for approval. The ABZA or the **Administrative Officer** shall then release the surety.
- (9) If an applicant or a property owner fails to meet the requirements set in the decommissioning plan or the large-scale solar energy system abandoned, the ABZA or the Administrative Officer may request the county to declare the surety in default and use the proceeds to complete the decommissioning plan.

### Section 7: Add UZO 4-11-15 Community-Scale Solar Energy System as follows:

- (a) A community-scale solar energy system is exempt from UZO 4-6 and lot coverage requirements.
- (b) A pre-submission meeting is required before submitting a **special exception** request or an improvement location permit application. Both property owner and applicant must attend and shall be prepared to explain the justification for an SES proposal at the pre-submission meeting.

#### (c) **Ground-mounted**:

- (1) An applicant or a property owner shall submit the following with an *improvement location permit* application:
  - (A) All solar panels, *mounting devices*, and *inverters* shall be *setback* 25 feet from all property lines.
  - (B) Solar *inverters* shall be *setback* a minimum of 50 feet when abutting a residential use property line or residential zone.
  - (C) The height shall be calculated as the distance from ground level to the top of the solar panel at its greatest incline (tilt).
  - (D) A security fence at least 6' high shall be installed around the community-scale solar energy system with emergency access allowed 24/7.
  - (E) Power transmission lines from *ground-mounted community-scale* **solar energy system** shall be underground and shall be completely shielded against shock hazard. Lines that connect one panel to another or from the system to the main transmission lines are not required to be underground.
  - (F) Driveway entrances shall comply with UZO 4-7.
- (2) A stormwater management plan shall be reviewed and approved by the participating jurisdiction.

- (3) All driveway entrances shall be approved by the participating jurisdiction.
- (4) Any approval, if required from the Federal Aviation Administration regulations, for installations surrounding airports shall conform to UZO 5-3.
- (5) All applicable approvals from federal, state and local agencies.
- (6) A Bufferyard is required as per UZO 4-9 except when waived by the Administrative Officer.
- (7) Institutional uses are exempt from the requirements of 4-11-15 (b) 8 (D-F and I)
- (8) Decommissioning plan and removal requirements:
  - (A) A decommissioning plan for a community-scale solar energy system shall be approved by the Administrative Officer prior to issuance of the *improvement location permit*.
  - (B) A decommissioning plan shall include removal of all solar electric systems, buildings, cabling, electrical components, security fence, driveway entrance, foundations, pilings, and any other associated facilities. However, the landowner may request in writing that the existing driveway entrance, security fence or other land surface areas not be restored, and this request shall be approved by the **Administrative Officer**. Hazardous materials, including **mounting** devices from a community-scale solar energy system shall be disposed of in accordance with federal, state and local laws.
  - (C) A final decommissioning plan shall be certified by a Professional Engineer.
  - (D) An applicant or a property owner shall provide an itemized cost estimate using the template in Appendix L to decommission the community-scale solar energy system prepared by a Certified Engineer or contractor who has expertise in the removal of solar facilities to the *Administrative Officer*. The cost estimate shall not include any estimates or offsets for the resale or salvage values of the community-scale solar energy system equipment and materials.
  - (E) A decommissioning cost estimate shall include a mechanism for calculating increased removal costs due to inflation. This cost estimate shall be recalculated every five years and the surety shall be updated to reflect the change. Failure to renew the cost estimate and update the surety every five years shall void the grant of special exception.
  - (F) An applicant or a property owner shall be required to file a surety using a form in Appendix L, acceptable to the Administrative **Officer**, for the estimated amount, approved by the **Administrative Officer** prior to the issuance of an **improvement location permit**.

- (G)An applicant or a property owner shall file and receive an approval for a demolition permit before decommissioning begins.
- (H) When a decommissioning is complete, an applicant or a property owner shall submit the final report outlining the completion of the decommissioning plan to the Administrative Officer for approval. The *Administrative Officer* shall then release the surety.
- (I) If an applicant or a property owner fails to meet the requirements set in the decommissioning plan or a community-scale solar energy system is abandoned, the Administrative Officer may request the county to declare the surety in default and use the proceed to complete the decommissioning plan.

### (d) **Building-mounted**:

- (a) A community-scale solar energy system may exceed the maximum allowed **building height** on which it is located by ten feet at the maximum incline (tilt).
- (b) A community-scale solar energy system may project up to three feet beyond the front or rear of the building, and as regulated in UZO 4-4-5
- (c) A *community-scale solar energy system* shall comply with all applicable federal, state and local laws and ordinances, including but not limited to building codes, fire codes, and historic preservation districts.

Section 8: Add UZO Appendix L-Decommissioning Documents to include a cost estimate table with the minimum required line items to decommission a SES and surety template as follows:

#### L-1 Breakdown of Cost for Removal of SES

Decommissioning Costs							
S.N	Item Description	Quantity	Unit	Unit Cost	Total Cost		
1	Mobilization/Demobilization						
	Mobilization/Demobilization		Lump				
			Sum				
2	Permitting						
	Local Permits		Lump				
			Sum				
	State Permits		Lump				
			Sum				
3	Civil Infrastructure						
	Removal Gravel Surfacing from Road		CY*				
	Haul Gravel Removed from Road		CY				

Disposal of Gravel Removal from Road 325	CY					
Removal Geotextile Fabric from Road Area	SF*					
Culvert Removal and Disposal	Each					
De-Compact and Grade Road Corridor	LF					
Topsoil and Stabilization on Removed Road	Acres					
Removal of Security Fence	LF*					
4 Structural Infrastructure						
Remove PV Rack Steel Posts	Each					
Haul PV Rack Array Steel Post	Ton					
Removal Transformer Station Post	Each					
Haul Transformer Station Post	Ton					
Removal Array Tracker & Motors	Each					
Haul Array Tracker & Motors	Ton					
Remove, Load, Haul Concrete Electrical Pads	CY*					
5 Electrical Collection/Transmission System						
Removal of PV Modules	Each					
Haul PV Modules	Ton					
Remove and Load Inverters	Each					
Haul Inverters	Ton					
Removal Loading and Freight of Transformers	Each					
Removal, Loading and Freight of Electrical Equipment	Each					
Removal and Disposal of SCADA Equipment	Each					
Removal and Load Underground Collector System Cables	LF*					
Haul Underground Cable	Ton					
6 Site Restoration (if applicable)						
Perimeter Controls	LF*					
Topsoil and Turf Establishment on area within Removed Array	Acres					
Grand Total = Add the total cost for items included in sections 1 through 6 above.						

<sup>\*</sup> SF = Square Feet, CY= Cubic Yard, LF= Linear Feet

Note: Items listed above are required at the minimum.

### L-2 Performance Bond

# TO BE ISSUED ON BONDING COMPANY STATIONERY

## PREFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, That we, (NAME AND ADDRES	<u>S OF</u>
PRINCIPAL), as Principal, and (NAME AND ADDRESS OF SURETY), as Surety	, are
held and firmly bound unto Tippecanoe County, Indiana, in the sum of	
(AMOUNT SPELLED OUT) , (NUMERICAL AMOUN	Γ),
for payment of which we firmly bind ourselves, our heirs, executors, administrators	, and
assigns.	
THE CONDITION OF THIS BOND is such that if the said Principal shall com	plete
the reclamation/decommissioning of (ABZA APPROVED CASE NUMBER and NAM	E OR
ILP NUMBER), approved on 20 and (RECOR	DED
RECLAMATION/DECOMMISSIONING PLAN DOCUMENT NUMBER) assigned b	y the
County Recorder, on or before (TIME ESTABLISHED AT THE TIME OF FILING),	then
this obligation is null and void, otherwise to remain in full force and effect.	
IN WITNESS WHEREOF, we have here unto set our hands and seal this	
(DATE - DAY, MONTH, YEAR).	
(NAME OF PRINCIPAL)	
ATTEST:	
BY: (SIGNATURE OF PRINCIPAL)	
(TYPED NAME OF INDIVIDUAL SIGNING)	
(NAME OF SURETY)	
BY: (SIGNATURE OF REPRESENTATIVE)	
(TYPED NAME OF INDIVIDUAL SIGNING)	
APPROVED BY:	
TIPPECANOE COUNTY AREA PLAN COMMISSION	
AREA FLAIN CUIVIIVIIOOIUN	
Director	

## L-3 Surety-Secured by Deposit

## **SURETY - SECURED BY DEPOSIT**

KNOW ALL MEN BY THESE PRESENTS: That I (we),, of
in the County of Tippecanoe, Indiana, hereby am (are) held
and stand firmly bound, and bind and obligate myself (ourselves), and my (our)
successors, assigns, executors, administrators, heirs, and devisees to Tippecanoe
County in the sum of dollars (\$) and
have secured my (our) compliance with this obligation by the deposit with the County
Auditor of said sum in money, savings bank books duly assigned, or negotiable securities,
in an amount satisfactory to the Area Plan Commission.
The CONDITION of this obligation is such that is the undersigned or his (their)
successors, assigns, executors, administrators, heirs, or devisees shall have within the
time specified in the order of the Area Plan Commission fully and satisfactorily performed
in the manner specified, including all of the conditions, contained in the (ABZA
APPROVED CASE OR ILP NUMBER), approved on, 20, and in the
(RECORDED RECLAMATION/DECOMMISSIONING PLAN DOCUMENT NUMBER)
assigned by the County Recorder, or is hereafter granted, by the Area Plan Commission,
then this obligation shall be null and void; OTHERWISE it shall remain in full force and
effect, and the aforesaid security for the payment of said sum shall be and become the
sole property of Tippecanoe County as liquidated damages.
IN WITNESS WHEREOF, the obligor has hereunto set his (its, our) hand(s) and seal(s)
thisday of,20

### L-4 Irrevocable Letter of Credit

# TIPPECANOE COUNTY, INDIANA

## **IRREVOCABLE LETTER OF CREDIT**

	(Name of Bank)	
Tippecanoe County Indiana	Date:	
Dear Sirs:		
We hereby open our	irrevocable credit in your fa	avor available by your drafts at sigh
on us for a sum not exceed	ling \$	for the account of
	(PURCHASER), to	be accepted by your signed
statement that drawing is	due to default or failure	to perform by PURCHASER, the
following reclamation/decor	mmissioning on or before	
(Insert date of completion	as stated in the application for decommissioning p	n for reclamation plan and 5 years plan)
RECORDED RECLAMATION	ON/DECOMMISSIONING	PLAN DOCUMENT NUMBER
in <u>ABZA APPROVED CAS</u> <u>EXCEPTION REQUEST O</u>		R ILP NUMBER, a SPECIAL aty, Indiana.
Acting through the Board o	f County Commissioners, y	you will notify us when either:
The <u>RECLAMATION</u> credit may be release.		ve been timely completed and the
2. The purchaser has f	ailed to perform or is in def	fault thereunder.
All drafts drawn hereunder	must be marked: "Drawn u	
		(Name of Bank)
	Credit No	, dated

such draft shall be a warranty by the negotiating bank that such endorsement has been made and that documents have been forwarded as herein required.

Except so far as otherwise expressly stated herein, this credit is subject to the uniform customs and practices for commercial documentary credits fixed by the 13th Congress of the International Chamber of Commerce.

We hereby agree with th	e drawers, endorsers, and bona fide holders of drafts
under and in compliance with the	e terms of this credit that the same shall be duly honored
on due presentation and deliver	y of documents as specified if negotiated on or before
	·
	Very truly yours,
	(Name of Book)
	(Name of Bank)
	By:
	(Authorized Cignoture)
	(Authorized Signature)

### Section 9: Update UZO 4-11-4 (c) Mining Reclamation Requirements to read as follows:

(c) In order to grant a **special exception**, the **ABZA** must approve the Reclamation Plan and also make it a condition of its grant, as per 6-4-4-d below. The petitioner shall record the approved Reclamation Plan in the Office of the County Recorder. The petitioner must then provide **APC** staff with surety using a form in **Appendix** L, in favor of Tippecanoe County in an amount equal to \$3000 per acre of land within the approved setbacks, before seeking an improvement location permit (Amend 5).

This ordinance shall be in full force and effect from and after its passage.