

Champaign County: Prairie Solar



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Prairie Solar: Project Description

- Project will generate up to 150 MW, enough power for 50,000 homes.
- Panels will be mounted on a single-axis tracking system.
- The site encompasses approximately 1,609 acres.
- 16 landowners are participating.
- Project will comply with all environmental regulations.



Local Economic Benefits*

Prairie Solar brings new revenue and jobs to the community

Construction Phase:

- \$250 million total investment
- \$138.5 million estimated local spending
- 18 month construction project
- Over 1.5 million local skilled construction man-hours

* Derived from US Department of Energy's Jobs & Economic Development Impact (JEDI) solar model.



Local Economic Benefits*

Annual Operations:

- \$3.6 million estimated annual local spending
- Approximately 15 permanent operations and maintenance jobs for electricians, network and communications technicians, landscapers, and others
- \$737,000 estimated first year property tax revenue to local taxing bodies.

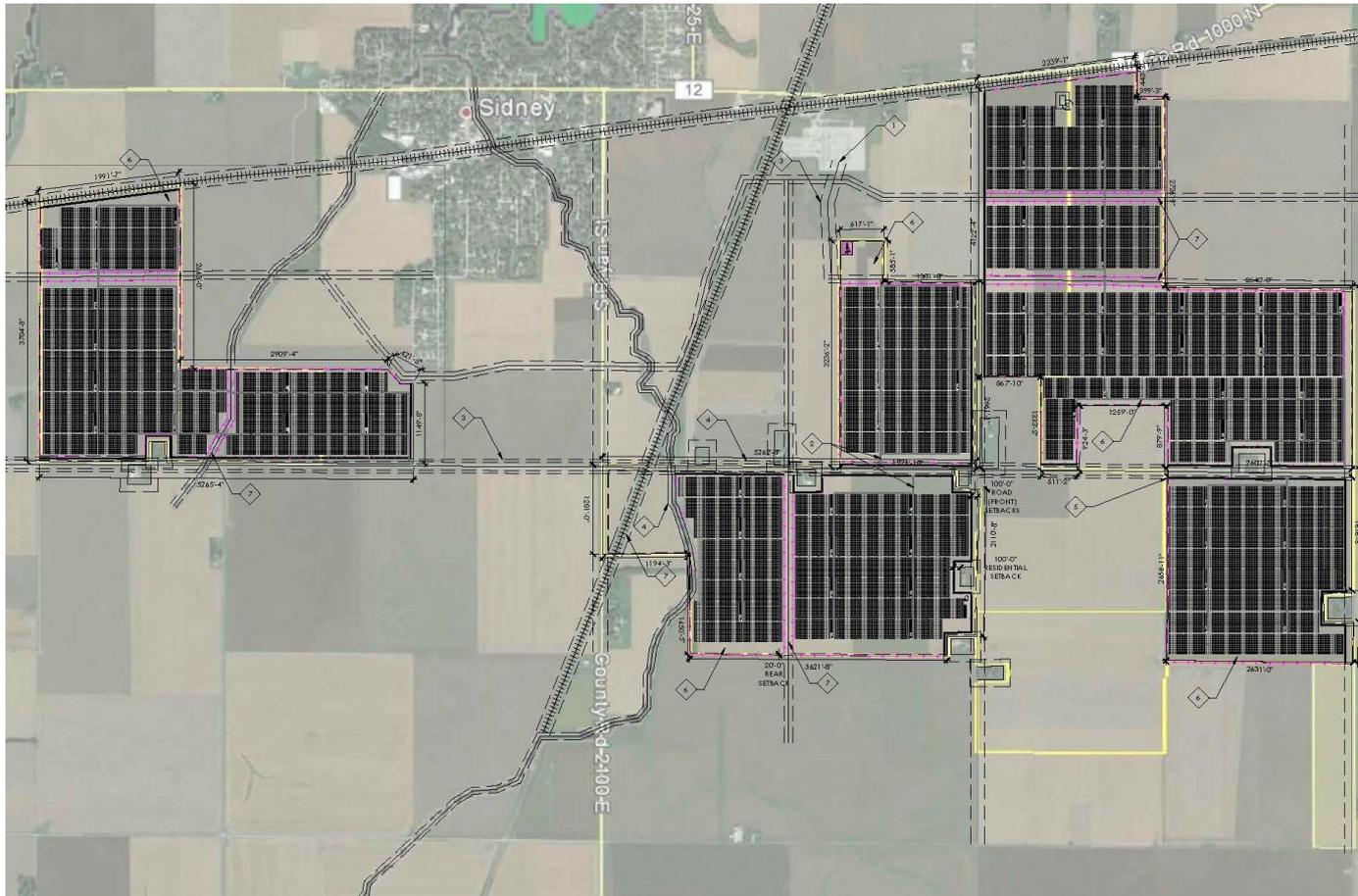
Estimated First Year Property Tax Revenue

Champaign County	\$ 94,442.90
Forest Preserve District	\$ 10,082.50
Parkland College	\$ 58,979.90
Tolono CUSD #7	\$348,753.68
Heritage CUSD #8	\$136,519.78
Sidney Fire Protection	\$ 21,800.00
Sidney Township	\$ 24,906.50
Sidney Road & Bridge	\$ 16,099.30
Sidney Permanent Road	\$ 16,099.30

Estimated first year property tax revenue based on most recent available 2017 tax rates.

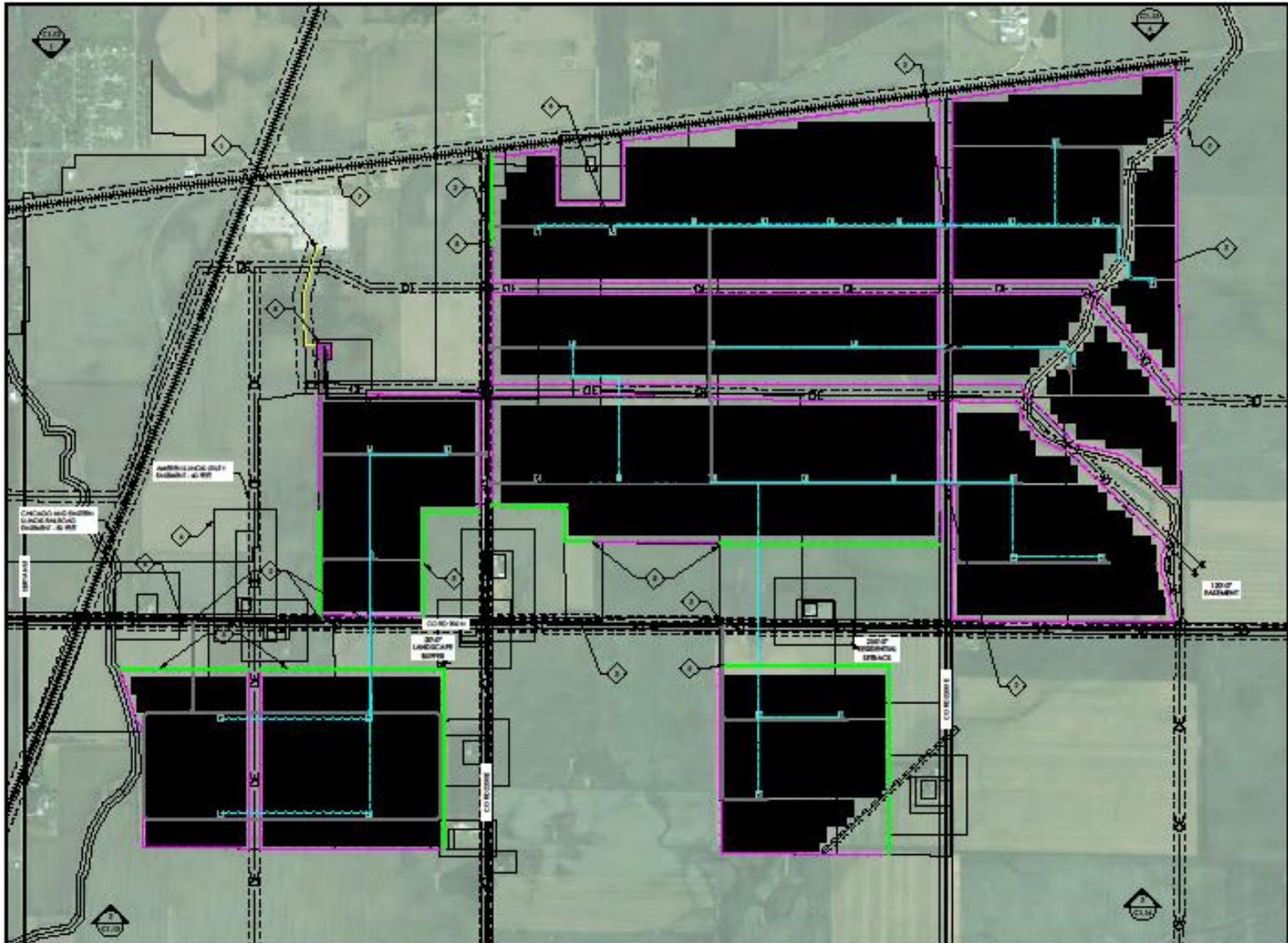
* Derived from US Department of Energy's Jobs & Economic Development Impact (JEDI) solar model.

Good Neighbors: BayWa r.e. redesigned the project in response to local community input

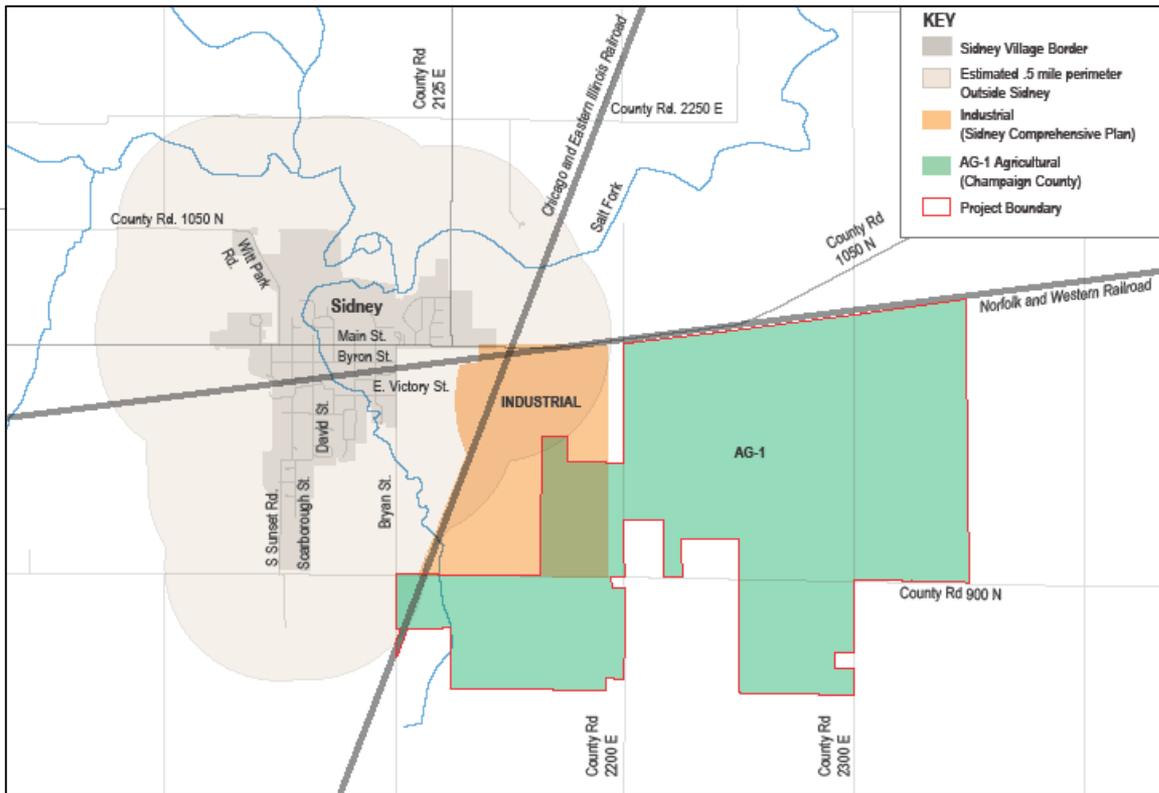


Original Site Design

Prairie Solar: Final Site Design



The proposed Prairie Solar facility satisfies and in many aspects, exceeds the requirements of the Champaign County solar ordinance.



- A portion of the project lies within the 1.5 mile planning radius area, designated Industrial by the Village of Sidney’s comprehensive plan.
- Project is separated from Sidney by railroad tracks.
- Located over .5 mile at its closest point from the village limits of Sidney, the project exceeds County ordinance requirements.

Table 8 - Project Operational Noise Level Summary for Existing Sensitive Receptors

Receptor ID	Predicted Noise Level (dBA Leq)	Limit Daytime (dBA Leq)	Limit Exceeded?	Limit Nighttime (dBA Leq)	Limit Exceeded?
R1	30	61	NO	51	NO
R2	34		NO		NO
R3	33		NO		NO
R4	34		NO		NO
R5	37		NO		NO
R6	38		NO		NO
R7	36		NO		NO
R8	36		NO		NO
R9	35		NO		NO
R10	33		NO		NO
R11	31		NO		NO
R12	38		NO		NO
R13	36		NO		NO
R14	37		NO		NO
R15	37		NO		NO
R16	36		NO		NO
East Extent Upper	33	NO	NO		
East Extent Lower	34	NO	NO		
Northern Extent	33	NO	NO		
West Extent Upper	31	NO	NO		
West Extent Lower	33	NO	NO		
Southern Extent	30	NO	NO		

Notes: dBA = A-weighted decibel; Leq = equivalent sound level over a given period.

Prairie Solar is designed well below sound limits required by the Illinois Pollution Control Board and the Champaign County solar ordinance.

Prairie Solar provides greater separation and more visual screening than required by the Champaign County solar ordinance.

- Meets and in most cases, exceeds all minimum setbacks as required by the ordinance
- More vegetative screening as set forth in the County ordinance



Prairie Solar: Visual Simulation from 900N Looking Southeast



EXISTING CONDITIONS



PROPOSED CONDITIONS

PHOTO SIMULATIONS ARE FOR DISCUSSION PURPOSES ONLY. FINAL DESIGN IS SUBJECT TO CHANGE PENDING PUBLIC, UTILITY, AND REGULATORY REVIEW.

**PRAIRIE ENERGY
SOLAR PROJECT**

DATE: 10/11/2018
TIME: 12:56 PM
DIRECTION: SOUTHEAST



**PHOTO
VIEWPOINT**

Prairie Solar: Visual Simulation From 2300E Looking Southwest



EXISTING CONDITIONS



PROPOSED CONDITIONS

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**PRAIRIE ENERGY
SOLAR PROJECT**

DATE: 10/11/2018
TIME: 11:23 AM
DIRECTION: SOUTHWEST



**PHOTO
VIEWPOINT** **S**

Prairie Solar satisfies and in many aspects, exceeds the land stewardship requirements of the County solar ordinance .

- Select native vegetation cover will allow the soil to rest increasing biodiversity, intensifying organic matter, and preventing soil erosion.
- The aging main line of the Sidney Drainage District #2 will be replaced
- In cooperation with landowners, project area will be pattern-tiled so as not to disturb drainage in the area.



Steps Required to Build Project



- Site control
- Permits
- Interconnection Agreement
- Power Purchaser

Renewable Energy Credits (RECs) lower the price of electricity to the buyer

About BayWa r.e.



Headquartered in Munich, Germany, BayWa AG is the parent company of BayWa r.e.

- Supplier of agricultural products and services from the field to the food processing industry
- Global renewable energy developer, service supplier, wholesaler and energy solutions provider
- Manages and maintains over 5 GW of solar, wind and bioenergy assets in more than 20 different countries

THANK YOU