

COMMONWEALTH OF KENTUCKY

BEFORE THE KENTUCKY STATE BOARD ON ELECTRIC GENERATION
AND TRANSMISSION SITING

In the Matter of:

ELECTRONIC APPLICATION OF BLUEBIRD)	
SOLAR LLC FOR A CERTIFICATE OF)	
CONSTRUCTION FOR AN APPROXIMATELY 100)	CASE NO.
MEGAWATT MERCHANT ELECTRIC SOLAR)	2021-00141
GENERATING FACILITY IN HARRISON)	
COUNTY, KENTUCKY PURSUANT TO KRS)	
278.700 AND 807 KAR 5:110)	

ORDER

On August 3, 2022, Bluebird Solar LLC (Bluebird Solar) received a construction certificate to construct an approximately 100-megawatt (MW) merchant solar electric generating facility in Harrison, Kentucky. On July 12, 2023, Bluebird Solar LLC filed a motion requesting the Siting Board approve its Final Site Plan. Bluebird Solar stated that several parcels have been removed from the final project design.¹ Bluebird Solar explained that the removal of the parcels also removed several access roads and necessitated additional solar panels in the main array.² Bluebird Solar assured that the project remains compliant with the setbacks established in the August 3, 2022 Order.³

Based upon the motion, and otherwise being sufficiently advised, the Siting Board finds Bluebird Solar's motion should be granted. The changes between the preliminary site plan reviewed by the Siting Board in the original consideration of the case and the revised final site plan do not create a materially different pattern or magnitude of impacts.

¹ Bluebird's Motion for Approval of Development Plan (filed July 12, 2023) at 2.

² Bluebird's Motion for Approval of Development Plan at 2.

³ Bluebird's Motion for Approval of Development Plan at 3.

IT IS THEREFORE ORDERED that:

1. Bluebird Solar's motion is granted.
2. The revised final site plan is attached in the Appendix of this Order.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

KENTUCKY STATE BOARD ON ELECTRIC
GENERATION AND TRANSMISSION SITING



Chairman, Public Service Commission

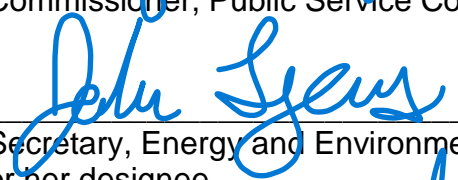


Vice Chairman, Public Service Commission

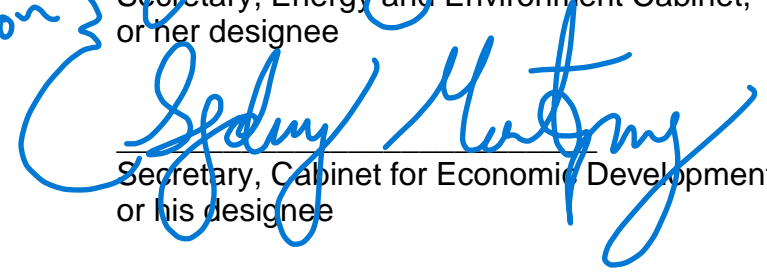


Commissioner, Public Service Commission

by KAC
w/permission



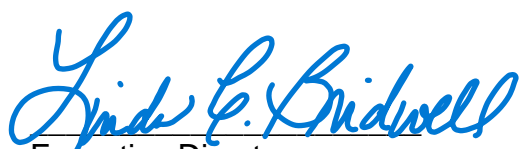
Secretary, Energy and Environment Cabinet,
or her designee



Secretary, Cabinet for Economic Development,
or his designee

ENTERED
SEP 12 2023 rcs
KENTUCKY PUBLIC
SERVICE COMMISSION

ATTEST:



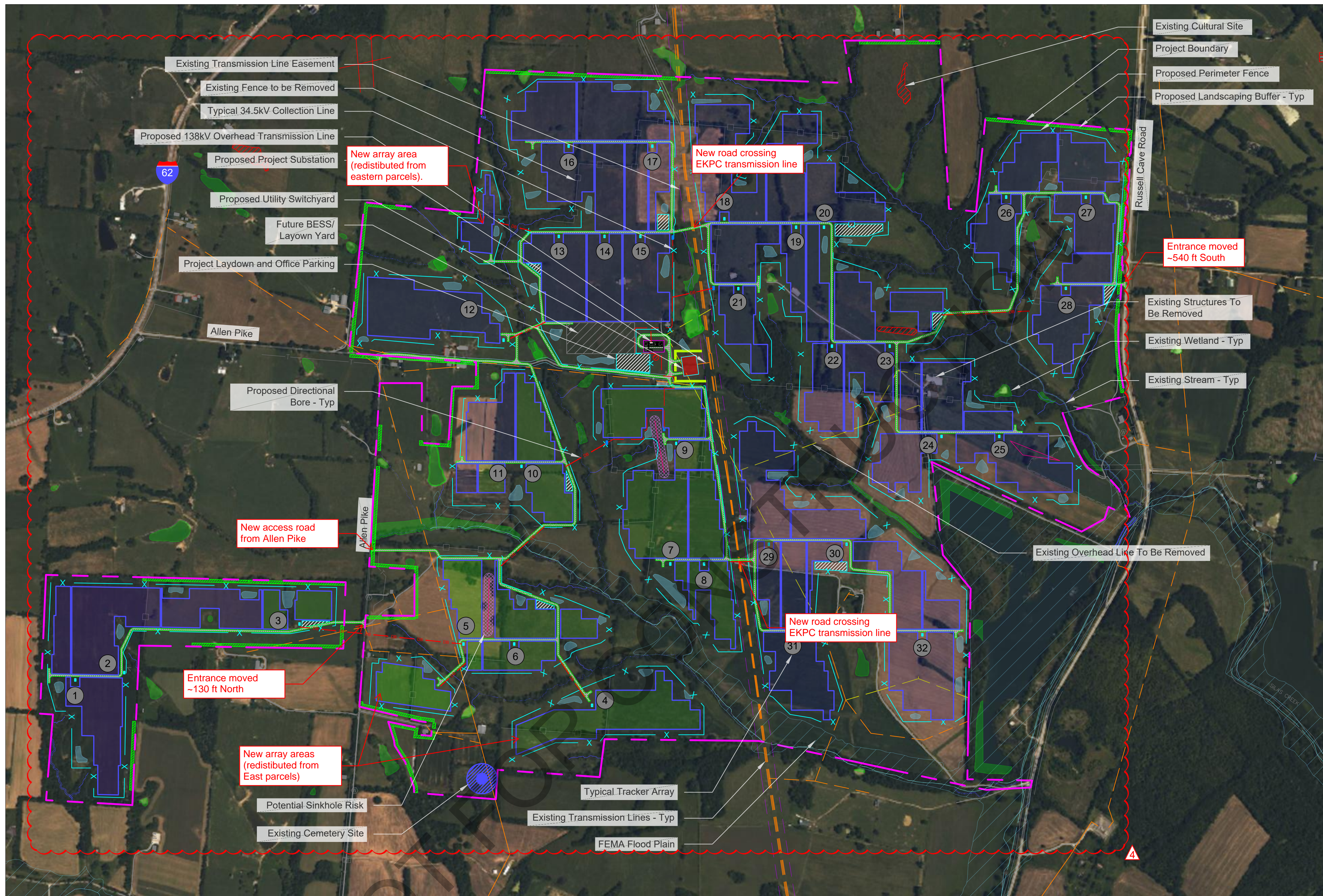
Executive Director
Public Service Commission
*on behalf of the Kentucky State
Board on Electric Generation
and Transmission Siting*

APPENDIX

APPENDIX TO AN ORDER OF THE KENTUCKY STATE BOARD ON
ELECTRIC GENERATION AND TRANSMISSION SITING IN
CASE NO. 2021-00141 DATED SEP 12 2023

ONE PAGE TO FOLLOW

D:\DEPCOM Power Dev\CAD - PDE\Opportunities\BayWa\Blue Bird\Site Plans\WIP\Active Drawings\Blue Bird SP-100-5-T - 6/1/2023 9:14 PM



Blue Bird
Cynthiana, Harrison County, Kentucky

Owner/Developer:
BayWa

Project Site Description:
 Latitude: 38.299900°
 Longitude: -84.383500°
 Elevation: 796 ft min - 928 ft max
 Total Site Area - Available: 1348.58 ± Acres
 Total Buildable Area: 612.47 ± Acres
 Total Fenced Acres: 647.68 ± Acres
 Total Array Footprint: 414.82 ± Acres

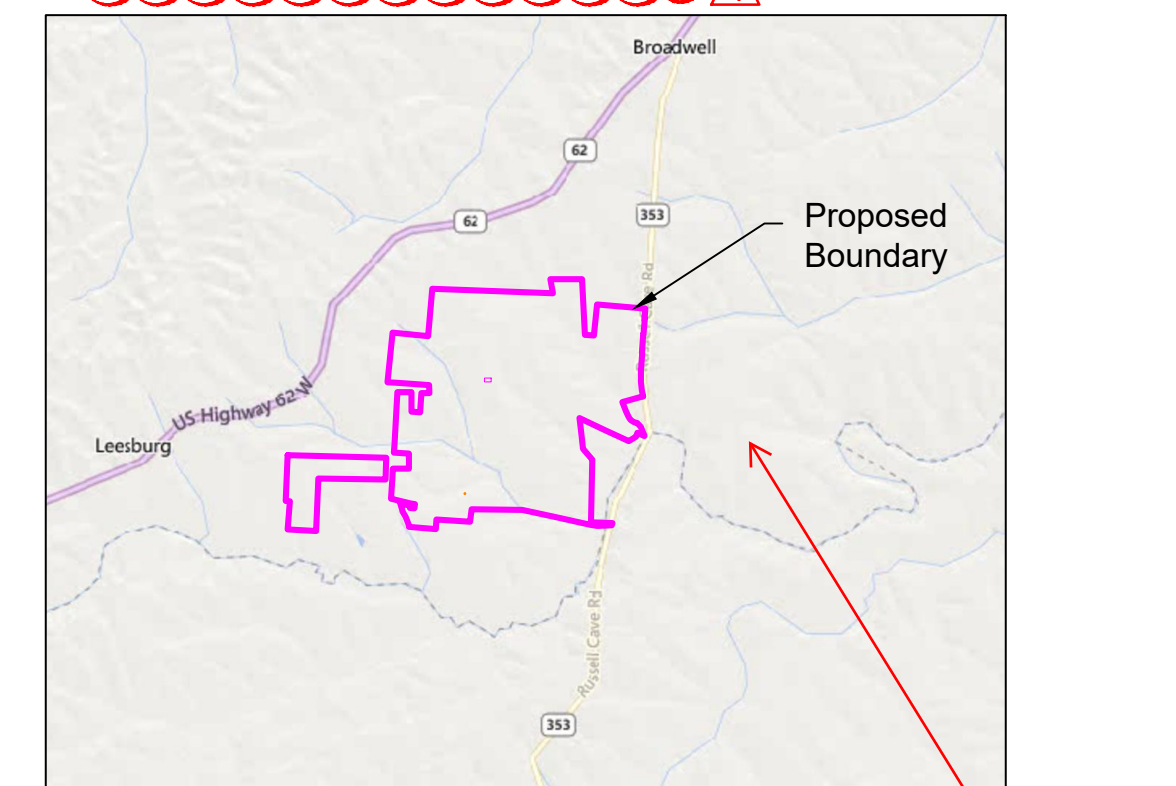
Annual Cooling Design Temp: 91.5° F
 Extreme Annual Min DB MeanTemp: 0.4° F (ASHRAE 2021)
 Soil Thermal Resistivity Value (Rho): 190
 Soil Max. Temperature: 26.3° C / 79.3° F
 Soil Min. Moisture Content: 2%

Wind Load: 105, Risk Category I
 Snow Load: 15psf
 Seismic Load: SS= 0.19g, S1= 0.09g

Interconnection Data:
 Transmission Provider: PJM
 Interconnection Voltage: 138kV
 Offtaker: EKPC
 Point of Interconnection: Existing Transmission Line, Gen-Tie Length to be Determined.

- Legend**
- Property Line
 - - - AC Trench Line
 - OH Overhead AC Line
 - DB Directional Bore
 - x Perimeter Fence
 - Existing Fence to be Removed
 - Existing Overhead Line
 - Existing Overhead Line To Be Removed
 - Existing Transmission Line Easement
 - Existing Stream
 - █ Existing Wetlands
 - █ 100-YR FEMA Flood Plain
 - Existing Cultural Sites
 - Existing Cemetery Sites
 - Potential Sinkhole Risk w/ 50FT Buffer
 - Proposed Landscape Buffer
 - Proposed Switchyard Landscape Buffer
 - Proposed Laydown
 - Proposed Storm Water Management
 - Typical 560W Array
 - Typical 565W Array
 - Typical 570W Array

Changed shapes and locations of detention basins



Key Map
Scale: 1" = 6,000'

9185 E PIMA CENTER PARKWAY #100
SCOTTSDALE, AZ 85258
PHONE: (480) 270-6910
WWW.DEPCOMPOWER.COM

A KOCH ENGINEERED SOLUTIONS COMPANY

Blue Bird
Cynthiana, Harrison County,
Kentucky

THIS PRINT IS NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED AND SIGNED "OK FOR CONSTRUCTION" ABOVE LAST REVISION

REV	DATE	DESCRIPTION	BY	CHK	APP
4	6-1-23	Updated Module Bin Class and Array Layout	MP	MP	MP
3	5-15-23	Updated per Client's comments	DY	DY	DY
2	4-5-23	Updated Arrays, Access Roads & Switchyard	DY	MP	MP
1	1-19-23	Updated per Client Comments	DY	MP	MP
0	1-17-23	Released for Engineering Design	DY	MP	MP

DEPCOM JOB NUMBER: 22-0004-00

PROJECT CODE: KY100

PROJECT DIRECTOR: TBD

PROJECT MANAGER: TBD

SHEET TITLE:
Site Plan

CHECKED BY: DY

DRAWN BY: MA

SCALE: AS NOTED

DRAWING NUMBER:
SP-100-5-T

SHEET 1 OF 5

Item	Source	Date, Revision
Project Boundary	DWG file provided by client: "2010-20002456 AS-03 ALTA (06-29-21).dwg"	6/29/2021
CUP/SUP	Planning and Community Development report provided by Cynthiana-Harrison County-Berry Joint Planning Commission: "16 Bluebird Proposed CUP Conditions.pdf"	5/6/2021
Constraints	Client Provided Constraint Map: "EKPC-Bluebird_ConstraintMap_rev21_220704.dwg"	7/4/2022
Geotechnical Report	Report of Geotechnical Exploration provided by American Engineers, Inc.: "3.4.4.2.2_2020 10 08_AEI_Reed Arnold, McDowell and Agnes - Geotechnical Report.pdf"	10/7/2020
FEMA	Panel: 21097C0250C	1/5/2011
Topographic Survey	DWG provided by client: "3.4.3.5.1_20002456CXB_ACAD.dwg"	N/A
Hydrology	Preliminary Drainage Report by Aztec "AZENE1917-BluebirdSolar_DrainageReport_R01.pdf"	1/21/2021
Wetlands	Client Provided Constraint Map: "EKPC-Bluebird_ConstraintMap_rev21_220704.dwg" Jurisdictional Determination Letter: "LRL-2019-00965 NWPR AJD Form.pdf"	7/4/2022; 4/8/2021
POI Location	N/A	N/A
Aerial Imagery	Bing Map	N/A
ASHRAE	http://ashrae-meteo.info/index.php	ASHRAE 2021
Wind Load Source	https://hazards.atcouncil.org/	(ASCE7-10)
Snow Load Source	https://hazards.atcouncil.org/	(ASCE7-10)
Seismic Load Source	https://hazards.atcouncil.org/	(ASCE7-10)

*Files are based on State Plane Coordinate System NAD83

Site Plan
Scale: 1" = 600'

AC Capacity at Point of Interconnection: 100MWac

Circuit	Number of Arrays	MWdc	MWac	dc/ac Ratio
SS1	8	32.53	24.40	1.3330
SS2	7	31.18	22.70	1.3734
SS3	9	39.38	29.30	1.3439
SS4	8	32.90	24.50	1.3429
Total Capacity	32	135.98	100.90	1.3477

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