

COMMONWEALTH OF KENTUCKY
BEFORE THE KENTUCKY STATE BOARD ON ELECTRIC GENERATION
AND TRANSMISSION SITING

In the Matter of:

ELECTRONIC APPLICATION OF FRON BN, LLC)	
(FRONTIER SOLAR) FOR A CERTIFICATE OF)	
CONSTRUCTION FOR AN APPROXIMATELY 120)	
MEGAWATT MERCHANT SOLAR ELECTRIC)	CASE NO.
GENERATING FACILITY AND NONREGULATED)	2023-00360
ELECTRIC TRANSMISSION LINE IN MARION)	
AND WASHINGTON COUNTIES, KENTUCKY)	
PURSUANT TO KRS 278.700 AND 807 KAR)	
5:110)	

ORDER

On December 28, 2023, FRON BN, LLC, (Frontier Solar) filed an application with the Kentucky State Board on Electric Generation and Transmission Siting (Siting Board) seeking a construction certificate to construct an approximately 120-megawatt, ground-mounted solar photovoltaic electric generating facility comprising approximately 1,411 acres of land and an approximately 1.7-mile nonregulated transmission line in Marion and Washington counties, Kentucky (Project). On March 11, 2026, Frontier Solar provided notice to the Siting Board of its filing of the final site plan in compliance with the final Order that was issued on June 25, 2024.

Frontier Solar stated that Project’s final site layout was reduced by 142 acres.¹ This reduction was the result of two parcels of land that were located on the northeast

¹ Frontier Solar’s Notice of Filing (filed on Mar. 11, 2025) at 3.

portion of the project being removed.² Those panels are going to be moved to another portion of the Project so that it will be able to generate at the permitted capacity.³ Frontier Solar explained that there was an increase of 10,383 feet in linear fencing to avoid crossing federal jurisdictional aquatic features and accommodate relocated panel arrays resulting from the reduction of the overall site.⁴ Additionally, Frontier Solar stated that the preliminary site plan included 35 inverters and now there will only be 33.⁵ This reduction will increase the distance between the nearest inverter and noise receptor by 82 feet.⁶

Frontier Solar stated that the project will have 25,474 less solar panels.⁷ Frontier Solar also stated that the number of access roads have been reduced from six to four access points in the final site layout.⁸ The final change that was made in the final site plan was the reduction of the total number of transmission pole from 31 to 29.⁹

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

² Frontier Solar's Notice of Filing at 3.

³ Frontier Solar's Notice of Filing at 3.

⁴ Frontier Solar's Notice of Filing at 3.

⁵ Frontier Solar's Notice of Filing at 2.

⁶ Frontier Solar's Notice of Filing at 3.

⁷ Frontier Solar's Notice of Filing at 3.

⁸ Frontier Solar's Notice of Filing at 3.

⁹ Frontier Solar's Notice of Filing at 4.

IT IS THEREFORE ORDER that:

1. Frontier Solar's Final Site Plan is approved.
2. The revised approved final site plan is attached to the Appendix of this Order.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

Entered on this 6th day of May, 2026.

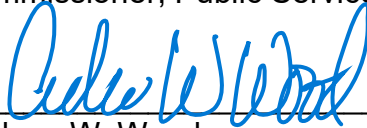
KENTUCKY STATE BOARD ON ELECTRIC
GENERATION AND TRANSMISSION SITING



Angie Hatton
Chair, Public Service Commission



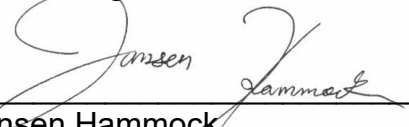
Mary Pat Regan
Commissioner, Public Service Commission



Andrew W. Wood
Commissioner, Public Service Commission



John Lyons
Secretary, Energy and Environment Cabinet,
or his designee





Jansen Hammock
Secretary, Cabinet for Economic Development,
or his designee

David Daugherty, ad hoc member

Lisa Haydon, ad hoc member

ATTEST:

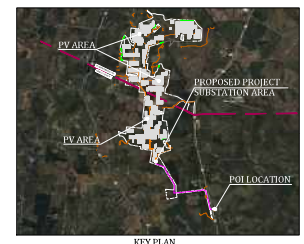
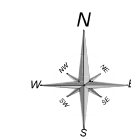
 

Linda C. Bridwell, PE
Executive Director
Public Service Commission
on behalf of the Kentucky State Board on
Electric Generation and Transmission Siting

APPENDIX

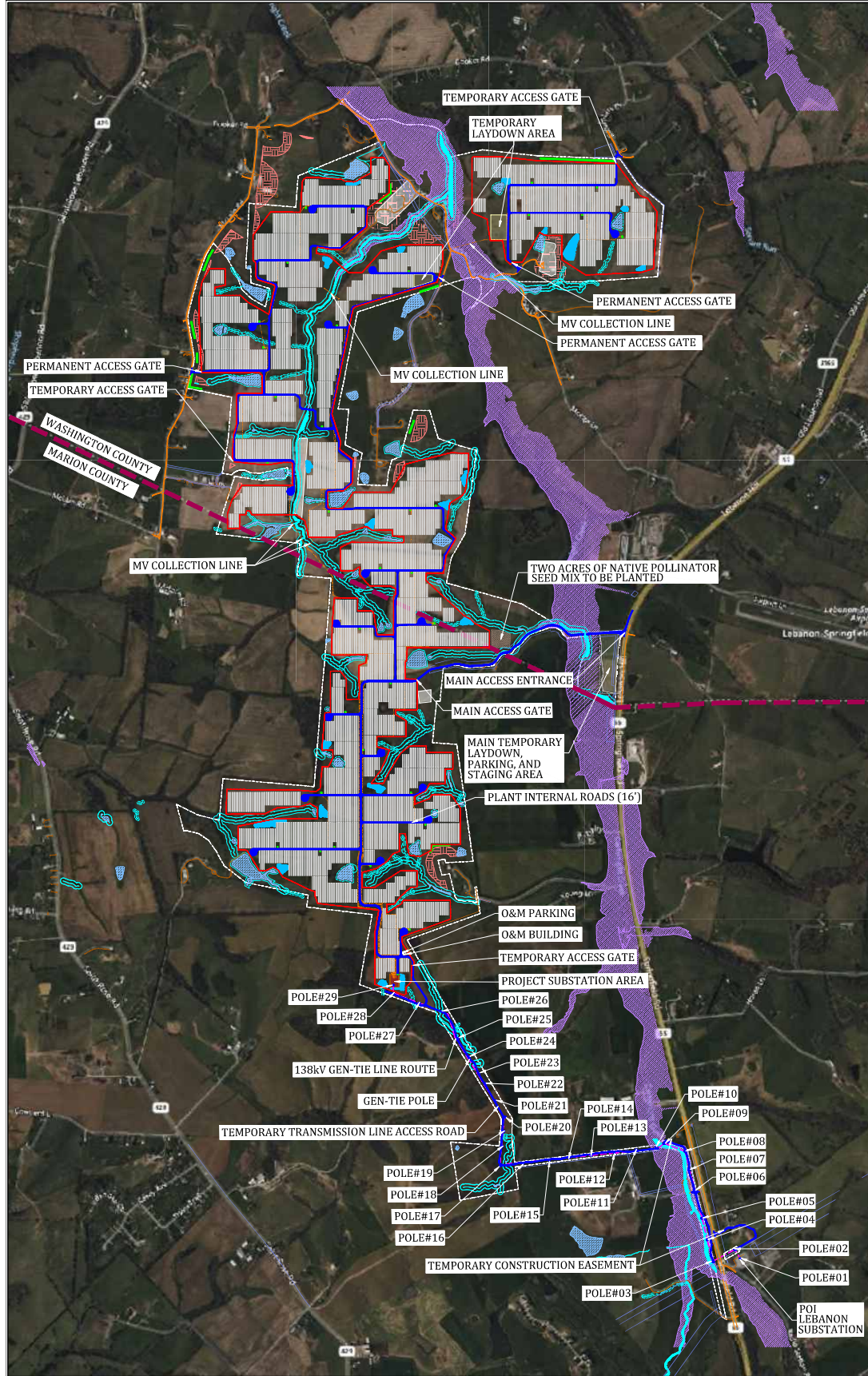
APPENDIX TO AN ORDER OF THE KENTUCKY STATE BOARD ON
ELECTRIC GENERATION AND TRANSMISSION SITING IN
CASE NO. 2023-00360 DATED MAY 06 2026

ONE PAGE TO FOLLOW



PROJECT DETAILS

Site latitude	37°38'18.12"N
Site longitude	85°16'12.91"W
PV DC capacity	148.276MWp
PV AC capacity at POI	120 MWac
DC AC ratio at POI	1.235
Evacuation voltage	138 kV
Module wattage	615/620Wp
Module type	Bifacial
Module quantity (615Wp)	204008
Module quantity (620Wp)	36792
Module per string	28
Total strings	8600
Tracker_4 String	1124
Tracker_3 String	877
Tracker_2 String	731
Tracker_1 String	11
PV Inverter rating	4.4MWac
PV Inverter Type	Central
PV Inverter quantity	33
Racking type	Tracker
Pitch	21°-1"
Ground coverage ratio	37%
Limits of Disturbance	793 Acres



LEGEND:-	
SYMBOL	DESCRIPTION
	SITE BOUNDARY
	SITE FENCE
	SETBACK LINE
	COUNTY ROAD
	TRACKER
	INVERTER SKID
	PLANT INTERNAL ROADS
	WETLAND
	STORM WATER BASINS
	RESIDENTIAL SETBACK

LEGEND:-	
SYMBOL	DESCRIPTION
	ACCESS GATE
	PROPOSED 138KV GEN-TIE LINE ROUTE
	FLOOD AREA
	NATURAL DRAIN
	COUNTY BOUNDARY LINE
	EXCLUSION AREA
	PROPOSED GEN TIE STRUCTURE
	MV COLLECTION LINE ROUTE
	LAYDOWN AREA
	NATIVE POLLINATOR SEED
	PROPOSED LANDSCAPE SCREENING

Notes-
 * All Dimensions Are in Feet.
 * Coordinates System - NAD83 Kentucky State Plane, South Zone, US Foot.

DATE	REV.	REVISION HISTORY	DRN. BY	CKD. BY	APPD. BY
2026-03-06	00	FIRST ISSUE	TJ	YS	KP

BRIGHT NIGHT BrightNight Power

PROJECT NAME: FRONTIER

DRAWING TITLE: PLANT LAYOUT (PV)

SCALE	PURPOSE CODE	SHEET SIZE	REV.	SHEET
1"=950'	ISSUE FOR PERMIT	36" x 24"	00	1 OF 1

NOTE:-
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