

Case No. 2025-00030
Lost City Renewables LLC
Response to Siting Board's First Request for Information

Siting Board 1-1:

Explain whether, and how, vegetative clearing was considered in planning the transmission line route.

Response: During preliminary design, the Applicant considered vegetative clearing during the planning of the transmission line. The transmission line route was determined by reviewing the least impactful pathway from the collector substation to the Point of Interconnection (POI). Some key considerations in route determination were to avoid structures, wetlands, cemeteries, and other features that may potentially raise concerns. In determining location of the transmission line route, the Applicant worked with the design team and landowners to identify the preliminary location of the transmission line balancing land parcel availability, landowner preferences, engineering concerns, construction needs, and opportunities to minimize vegetation clearing. Although the planned route will require vegetative clearing, Lost City believes it is the best route in considering the various factors discussed above. Efforts will be made to reduce tree clearing within the right-of-way (ROW) to preserve existing riparian buffers at stream crossings to extent practicable.

Witness: Marty Marchaterre

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Siting Board 1-2:

Provide a map depicting all planned areas of vegetative clearing required for the construction of the proposed transmission line.

Response: The attached figure identifies the location of potential areas of vegetation clearing for the construction of the proposed transmission line (see Attachment 1-2). This figure identifies types of land (e.g., forested or agricultural land within the transmission line ROW).

Witness: Marty Marchaterre

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Siting Board 1-3:

Provide the total acreage of vegetative clearing that will be required for the construction of the proposed transmission line.

Response: Within the transmission line ROW, approximately 125 forested acres occur (see Attachment 1-2). The Applicant anticipates that approximately 85 to 100 acres of forested areas may need to be cleared during construction. Efforts will be made to reduce tree clearing within the right-of-way (ROW) to preserve existing riparian buffers at stream crossings to an extent practicable.

Witness: Marty Marchaterre

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Siting Board 1-4:

Confirm that all agreements with parcel owners along the proposed transmission line route have been secured. If not confirmed, provide a timeline for the remaining agreements to be obtained.

Response: Yes, all lease agreements have been secured (see Appendix A).

Witness: Marty Marchaterre

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Siting Board 1-5:

Provide copies of all agreements with parcel owners along the proposed transmission line route.

Response: Copies of all lease agreements can be found in Appendix A.

Witness: Marty Marchaterre

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Siting Board 1-6:

Provide a list of permits that will be required from any other local, state, or federal agencies for the proposed transmission line. Include in the response the status of those permits.

Response: Upon completion of final design and engineering, post TVA Interconnection Facilities Studies completion, the following is a non-exhaustive list of typical permits that the Applicant assumes is presently required along with an additional like of potential permits the Applicant may be required to obtain for transmission line projects of similar size and scope. Other permits may be required, and this list is subject to change based upon future analysis, studies, and findings. The Applicant will apply for the permits prior to the start of construction.

Type	Permit	Agency	Status
Federal			
TVA National Environmental Policy Act (NEPA)	NEPA Environmental Impact Statement	TVA	Yet to begin.
Waters of the United States (Wetlands & Streams if impacts <0.5 ac.)	Clean Water Act Section 404 Nationwide Permit No. 57	USACE	Yet to begin.
Threatened and Endangered Species	Endangered Species Act Section 7 Consultation	USFWS	Yet to begin.
Eagle Protection	Bald and Golden Eagle Protection Act	USFWS	Yet to begin.
State			
Kentucky Siting Board on Electric Generation	Siting Board Approval to Construct	KY Siting Board	Approved.
Kentucky Siting Board on Transmission Line	Siting Board Approval to Construct	KY Siting Board	Underway.
Kentucky Water Quality	Clean Water Act Section 401 Water Quality Certificate	KDOW	Yet to begin.
Construction in a Floodplain	Floodplain Permit	KDOW	Yet to begin.
Construction In, Along, or Across a Stream	Stream Construction Permit	KDOW	Yet to begin.

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Cultural Resources	National Historic Preservation Act Section 106 Consultation	SHPO	Yet to begin.
Kentucky Overweight/Oversize Vehicle Permit	Overweight or Oversize Vehicles Using State Roadways	KYTC	Yet to begin.
State Stormwater Permits/Land Disturbance	General Permit for Stormwater Discharges Associated with Construction Activities	KDOW	Yet to begin.
Local			
Muhlenberg County and Logan County Building and Electrical Permits	Building and Electrical Permits for New Commercial Construction	Muhlenberg County and Logan County	Yet to begin.
Muhlenberg County and Logan County Road Use and Access	Road Use, Access, Overweight or Oversized Vehicles	Muhlenberg County and Logan County	Yet to begin.

Witness: Marty Marchaterre

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Siting Board 1-7:

Provide copies of any documents submitted to any local, state, or federal agencies not included in the application.

Response: Besides the comprehensive list of studies and documents submitted to the Siting Board during the Certificate of Construction process for the Lost City Renewables, LLC 250 MW Merchant Electric Solar Generating Facility (Case # 2024-00406), no other documents not included in the application have been submitted to any local, state, or federal agencies.

Witness: Marty Marchaterre

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Siting Board 1-8:

Provide information on the anticipated lifespan of the proposed transmission line, including any decommissioning plans.

Response: Although transmission lines and poles can be expected to remain in service for 50 to 80 years, the anticipated lifespan of the Project is 30 years with options for two 5-year extensions. Potential transmission line removal costs have been included in the decommissioning plan (see Appendix B).

Witness: Marty Marchaterre

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Siting Board 1-9:

Explain whether any portion of the proposed transmission line will be underground.

Response: No portion of the proposed transmission line has been designed to be located underground.

Witness: Marty Marchaterre

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Siting Board 1-10:

Detail any communication that has occurred with the Tennessee Valley Authority (TVA) regarding the proposed transmission line.

Response: The Applicant is currently participating in the Large Generation Interconnection Process with TVA. The interconnection process includes completion of studies by TVA that determine the transmission upgrades required for a project to reliably interconnect to the TVA substation and grid. These studies are completed in a series over a period of 4 years. The Feasibility Study, the System Impact Study, and the Facilities Study are designed to provide developers with increasingly refined information regarding the scope of required upgrades, completion deadlines, and implementation costs. The current Gentie has been designed and engineered based on the Utility Industry Standards deployed by US Utilities. The Applicant confirmed that it meets or exceeds similar Standards.

Currently, the project has entered the TVA Transitional Serial Cluster Facilities Study (TSCFS) process. On January 8, 2025, the Applicant executed the TSCFS Agreement, which is enclosed in Appendix C. Additional TVA studies will be shared when they are completed. The TSCFS process involves TVA review of the proposed project and generation tie to the substation. TVA is currently performing a detailed study of the technical submissions and plans to visit the site and the generation tie as a part of the process.

Witness: Marty Marchaterre

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Siting Board 1-11

Explain whether there are any agreements in place with TVA concerning the proposed transmission line. If so, provide copies of the agreements.

Response:

The Applicant executed a Transitional Serial Cluster Facilities Study Agreement with TVA, and it is enclosed in Appendix C.

Witness: Marty Marchaterre

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Siting Board 1-12:

Refer to the Application, page 3. Provide maps depicting the alternative transmission line routes.

Response: The Applicant has attached a figure showing the proposed and alternative transmission line routes (Attachment 1-12).

Witness: Marty Marchaterre

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Siting Board 1-13:

Provide a detailed table listing all residential structures located within 1,000 feet of the proposed transmission line. For each structure, provide:

- a. The distance to proposed transmission line.
- b. Whether the parcel owner has signed an easement or lease agreement for the proposed transmission line.

Response: a. The table below lists all residential structures within 1,000 feet of the proposed transmission line and the distances to the proposed transmission line.

b. The table identifies if the residential structure is on a parcel with an easement or lease agreement for the proposed transmission line.

#	Lat.	Long.	Property Owner Name (If Agreement is in Place)	A. Distance to Proposed Transmission Line (feet)	B. Signed Easement or Lease Agreement?
1	37.08748	-86.9671	N/A	535.17	No (property parcel does not intersect with ROW)
2	37.08652	-86.9628	N/A	993.38	No (property parcel does not intersect with ROW)
3	37.08491	-86.9671	Ellis D Crafton, Jr.	53.48	Yes
4	37.08651	-86.9648	Dewayne J and Dorothy Gates	833.37	Yes
5	37.08297	-86.9654	N/A	454.58	No (property parcel does not intersect with ROW)
6	37.08307	-86.9661	N/A	476.04	No (property parcel does not intersect with ROW)
7	37.0819	-86.9671	N/A	963.51	No (property parcel does not intersect with ROW)
9	37.03643	-86.9448	N/A	643.42	No (property parcel does not intersect with ROW)

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10	37.03051	-86.9518	N/A	929.80	No (property parcel does not intersect with ROW)
11	37.01463	-86.9435	N/A	827.56	No (property parcel does not intersect with ROW)
12	37.00434	-86.9415	Michael Manning	718.78	Yes
14	36.99588	-86.9245	N/A	695.79	No (property parcel does not intersect with ROW)
15	36.99614	-86.9234	N/A	985.86	No (property parcel does not intersect with ROW)
16	36.99424	-86.924	Joey & Sherri White	411.70	Yes
18	36.98219	-86.9186	N/A	624.60	No (property parcel does not intersect with ROW)
19	36.97566	-86.9181	N/A	760.67	No (property parcel does not intersect with ROW)
21	36.97179	-86.9206	Gary Dale Thomas	519.63	Yes
23	36.97768	-86.9207	William H. & Christina J. Detweiler	135.46	Yes
24	36.97848	-86.9212	William H. & Christina J. Detweiler	413.88	Yes
25	36.98334	-86.9239	Daniel A & Barbara Ann Miller	767.68	Yes
26	36.98453	-86.9226	Daniel A & Barbara Ann Miller	483.67	Yes
27	36.99259	-86.9263	McReynolds Farm LLC	495.43	Yes
28	36.99333	-86.9283	N/A	468.47	No (property parcel does not intersect with ROW)

Witness: Marty Marchaterre

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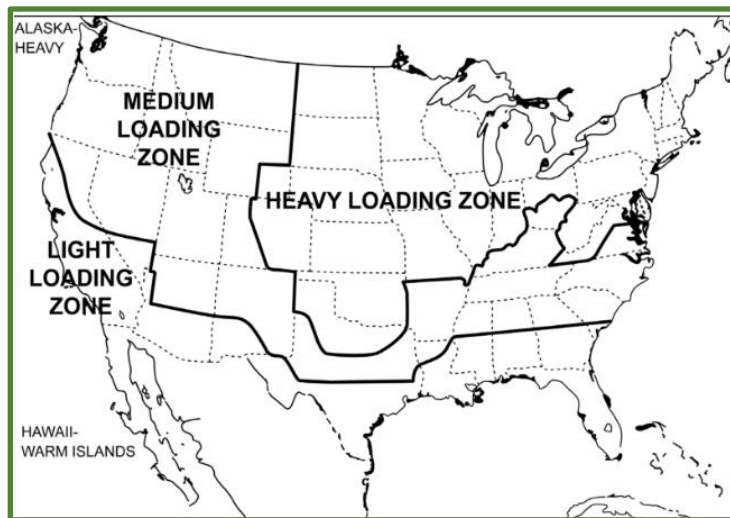
Siting Board 1-14:

Explain what compliance codes and standards the proposed transmission line must meet.

Response: The following is a non-exhaustive list of codes and standards that the Applicant assumes is presently required for the proposed transmission line based on projects of similar size and scope:

- 2023 National Electrical Safety Code (NESC) C2-2023
- U.S. Department of Agriculture Rural Utilities Service (RUS) Bulletin 1724E-200 Design Manual for High Voltage Transmission Lines
- IEEE 516-2021, IEEE Guide for Maintenance Methods on Energized Power

Loading Map:



The proposed transmission line is in a Medium Loading Zone

Witness: Shane Kelley

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Siting Board 1-15:

Confirm whether the project will comply with all National Electrical Safety Code (NESC) regulations. If not confirmed, explain why not.

Response: Yes, the Applicant will comply with all applicable NESC regulations for the Project.

Witness: Marty Marchaterre

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Siting Board 1-16:

Provide a map identifying the following information:

- a. Where the proposed transmission line crosses any local, state, or interstate highways.
- b. Where the proposed transmission line crosses any railroads.
- c. Any airports within one mile of the proposed transmission line.
- d. The location of any bodies of water, such as rivers, lakes, and ponds, near the proposed transmission line.

Response:

The attached figure (Attachment 1-16) shows (a) where the proposed transmission line crosses any local, state, or interstate highways and (d) the locations of bodies of water, such as rivers, lakes, and ponds near the proposed transmission line. The proposed transmission line (b) does not cross any railroads and (c) no airports are located within one mile of the proposed transmission line.

Witness: Marty Marchaterre

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Siting Board 1-17:

Detail what material will be used for proposed transmission line poles, i.e., wood, steel, etc.

Response: The proposed transmission line poles will be steel (see Application, Attachment A).

Witness: Shane Kelley

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Siting Board 1-18:

Explain whether a helicopter will be utilized in installing any proposed transmission line structures.

Response: The Applicant has no plans to utilize a helicopter to install any proposed transmission line structures.

Witness: Marty Marchaterre

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Siting Board 1-19:

Refer to the Application, pages 3-4. For each alternative provide the length of the alternative transmission line project as described including the number of property owners that would have been affected by the alternative, if not already provided.

Response: Route A: Proposed Transmission Line is approximately 10.5 miles in length and crosses 36 parcels with 28 landowners (see Attachment 1-12). Route B: Transmission Line Along US 431 is approximately 13.8 miles in length and crosses 257 parcels with over 100 landowners (see Attachment 1-12). Route C: Transmission Line Connecting to and Following Existing TVA 161 kV Transmission Line and is approximately 13.7 miles in length and crosses 79 parcels with over 55 landowners (see Attachment 1-12). Another alternative transmission line route would have paralleled the existing TVA transmission line but was not mapped as it had structural conflicts, such as cemeteries and residences in the potential corridor.

Witness: Marty Marchaterre

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Siting Board 1-20:

Refer to the Application, page 4. Confirm that the right-of-way will vary between 75 feet and 50 feet. If not confirmed explain the response.

Response: The proposed right-of-way limits are primarily 150 feet (75 feet on each side of centerline) with some sections 100 feet (50 feet on each side of centerline) (see Application page 4 and Application Attachment B).

Witness: Marty Marchaterre

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Siting Board 1-21

Provide a map specifically identifying the portions of the proposed transmission line with the 50-foot right-of-way on each side of the centerline. Identify the property owners of the affected parcels in the response.

Response: See Attachment 1-21 which shows the location of the 50-ft ROW and the associated parcels.

The property owners where the 50-foot right-of-way is located are as follows (from north to south):

- Joey and Sherri White
- McReynolds Farm LLC
- Daniel and Barbara Ann Miller
- William and Ada Detweiler
- William H. and Christina J. Detweiler

Witness: Marty Marchaterre

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Siting Board 1-22:

Provide the distance from the centerline to the closest residential structure. In the response provide a map that identifies the location of the residence.

Response: The nearest residential structure to the transmission line centerline is approximately 136 feet (Attachment 1-22). It is owned by a participating landowner.

Witness: Marty Marchaterre

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Siting Board 1-23:

Provide the distance from the centerline to the closest structure, if not a residence. In the response provide a map that identifies the location of the structure.

Response: The nearest non-residential structure to the transmission line centerline is approximately 469 feet (Attachment 1-23). It is owned by a non-participating landowner,

Witness: Marty Marchaterre

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Siting Board 1-24:

Explain how the 100-year floodplain will affect the structure of the proposed transmission line and route of the proposed transmission line.

Response: During the conceptual routing, the transmission line was routed to avoid floodplains whenever possible. In cases where floodplains are unavoidable, the foundation design for structures located in floodplains areas will require specialized considerations to mitigate the effects of saturated soil conditions and potential water inundation.

Tangent Structures:

Tangent structures shall utilize a direct embedment foundation. This design incorporates a corrugated barrel foundation with a specified diameter, which enhances resistance to both longitudinal and transverse loading. The foundation shall be installed with an increased embedment depth to ensure stability in low-bearing-capacity soils. The corrugated barrel will extend above the finished ground grade, and a soil mound will be constructed around the base to prevent water accumulation and seepage into the foundation.

Angle and Dead-End Structures:

Angle and dead-end structures shall be supported by a cast-in-place concrete foundation. The design and foundation dimensions will be engineered to withstand the specific hydrostatic and geotechnical conditions of the floodplain environment. Similar to tangent structures, the concrete foundation shall be designed to protrude above the ground surface, and a protective soil mound will be constructed at the base to prevent water ingress.

Witness: Shane Kelley

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Siting Board 1-25:

Explain whether the applicant has a plan for variance in the proposed transmission line route.

Response:

At this stage of design, the Applicant does not anticipate any variances. If the situation arises that transmission line route shifts are required due to unforeseen conditions, Lost City plans to limit transmission line shifts to within the area of current parcels leased.

Witness: Marty Marchaterre

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Siting Board 1-26:

Provide any site study performed for the proposed transmission line route.

Response: The Applicant has performed extensive studies for the main solar generating site which were provided as a part of the Siting Board Certificate of Construction process for the Lost City Renewables, LLC 250 MW Merchant Electric Solar Generating Facility (Case # 2024-00406). Due to the proximity of the transmission line to the main site, the Applicant anticipates similar results of the studies for the transmission line route.

For early identification of potential issues that may need to be addressed, the Applicant prepared a Critical Issues Analysis using an earlier version of the transmission line design. This report is included as Appendix D. Although the final project footprint is slightly different from the preliminary designs used in this application, the analysis conclusions are expected to be similar because the earlier transmission line route overlapped in many areas and shifts are on adjacent or nearby parcels and the rural character, land cover, and other conditions are the same or similar.

The Applicant also prepared an eagle-raptor study for the transmission line (Appendix E). A Federal Aviation Administration Notice criteria review has been completed and included in Attachment 1-26. It should be noted that additional site studies may only be performed as part of the TVA National Environmental Policy Act review process due to TVA requirements.

Witness: Marty Marchaterre