

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

Electronic Application on behalf of Lost City Renewables LLC for a Certificate of Construction for a 161kV Nonregulated Electric Transmission Line up to approximately 10.5 miles in Length in Muhlenberg and Logan Counties, Kentucky Pursuant to KRS 278.700, et seq. and 807 KAR 5:110)	CASE NO. 2025-00030
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WITNESS LIST

Lost City Renewables LLC (“Lost City”), by counsel, pursuant to 807 KAR 5:110, Section 6 and other applicable law, does hereby give notice of its intent to make the following individuals available to provide fact and expert testimony at the hearing for this matter which is scheduled for 1:30 p.m. on Monday, September 22, 2025.

Marty Marchaterre will be available to provide testimony regarding the transmission line route selection process; the design, length, intersection, and interconnection of the transmission line; agreements and communication with participating parcel owners; visibility; environmental and vegetative impacts; coordination with federal, state and local agencies for the transmission line and required permitting; and construction methods, deliveries, and timeline for the construction of the transmission line. Mr. Marchaterre sponsored several responses to requests for information and reports that have been filed in this matter. Mr. Marchaterre is a Senior Environmental Planner and Project Manager at Copperhead Environmental Consulting. He has extensive experience with NEPA documentation and studies, and his expertise includes solar surveys, ecological surveys, biological assessments, noise analyses, watershed planning, trail and park development studies, and community impact assessments. Mr. Marchaterre graduated from Williams College with a bachelor’s degree in

History and Political Science and obtained his J.D. from the College of William and Mary. Mr. Marchaterre's curriculum vitae is attached.

David Crouse, P.E. will be available to provide testimony regarding a broad range of topics including site selection and project planning for the transmission line; agreements with parcel owners; corporate structure of Lost City and compliance history with environmental regulation; and integration of the transmission line with the Tennessee Valley Authority. Mr. Crouse has adopted the filed application materials and responses to requests for information submitted by Mr. Sean Joshi. Mr. Crouse is the Vice President of Engineering of Sunrise Renewables LLC, an affiliate of Copenhagen Infrastructure Partners, and is responsible for coordinating the engineering design development for Sunrise Renewables portfolio of solar and battery storage projects. Mr. Crouse has 45 years of experience in the power engineering and construction field and has worked in many capacities from engineering to project management. He received a Bachelor of Science from the University of California, Berkley, completed extension courses from the University of California, San Diego. He is a Certified Professional Engineer (Mechanical) and a Certified Co-Generation Professional. Mr. Crouse's curriculum vitae is attached.

Shane Kelley will be available to provide testimony on the project site preparation; transmission line design; compliance with electrical safety codes and standards; and construction materials, process, and best practices. He has sponsored several responses to requests for information and reports, which have been filed in this matter. Mr. Kelley is employed by Stantec as the Team Lead of Stantec's Kentucky Natural Resources Team. Mr. Kelley has worked on 16 renewable energy projects within the state of Kentucky; while on those projects, Mr. Kelley has served as both a project manager and a technical lead. Mr. Kelley graduated from the University of Kentucky in 2014 with a Bachelor of Science in Natural Resource and Environmental Science. Mr. Kelley's curriculum vitae is attached.

RESPECTFULLY SUBMITTED,

STURGILL, TURNER, BARKER & MOLONEY, PLLC



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Counsel for Lost City Renewables LLC

Education

J.D. 1988, College of William and Mary, Williamsburg, Virginia

B.A. History and Political Science, 1985, Williams College, Williamstown, Massachusetts

Williams-Mystic American Maritime Program, 1985

Professional Associations

Virginia State Bar Association, Environmental Law Section

District of Columbia Bar Association, Environment, Energy and Natural Resources

Qualifications and Background

Mr. Marchaterre is an attorney with more than 35 years of environmental, regulatory, and permitting experience. Mr. Marchaterre has extensive experience with renewable energy projects. In Kentucky, he has supported more than 25 solar energy projects in 21 counties over the past five years. In 2020, he helped the first Kentucky solar project gain approval from the Kentucky Electric Generation and Transmission Siting Board. He has managed critical issues assessments, cumulative environmental assessments, habitat assessments, bat surveys, bald eagle nest surveys, mussel surveys, biological assessments, wetland and stream delineations, glare analyses, acoustical assessments, groundwater analyses, cemetery plans, environmental management plans, permitting requirements, public involvement, and environmental assessments. Two Kentucky solar projects he has supported have been constructed and are in operation, and construction on five more solar projects is expected to start in 2025-2026. He has experience with ecological and technical studies of transmission lines, coal-fired power plants, gas-fired power plants, and nuclear power plants, as well as a pumped storage project in Eastern Kentucky.

Broader Kentucky experience includes overseeing more than 200 sensitive species habitat assessments, threatened and endangered species surveys, stream and wetland delineations, permitting, biological assessments, and related tasks. He has a deep understanding of regulatory requirements at the local, state, and federal levels. He routinely works with the U.S. Fish and Wildlife Service (USFWS) Frankfort Field Office, U.S. Army Corps of Engineers (USACE), Federal Highway Administration, Natural Resources Conservation Service, Kentucky Army National Guard, Kentucky Transportation Cabinet, Kentucky Department of Fish and Wildlife Resources, Kentucky Division of Water, Kentucky Heritage Council, Kentucky Department of Local Government, Tennessee Valley Authority, Daniel Boone National Forest, Land Between the Lakes, and Mammoth Cave National Park on various natural resource, cultural resource, permitting, and National Environmental Policy Act (NEPA) projects.

Selected Project Experience

Turkey Creek Solar, Carolina Solar, Garrard County, KY (2020-00262). Project Manager for ecological studies of a 50-MW solar project on 540 acres near Lancaster, Kentucky. Managed site characterization studies, aquatic resources delineation, Phase I environmental site assessment (ESA), avian studies, cumulative environmental assessment, and cultural resource overviews. The studies included a desktop review of federal and state data pertaining to sensitive resources such as listed species, wetlands or other surface waters, prime farmland,

karst topography, and public and protected lands. A wetland delineation identified and demarcated aquatic features that might be jurisdictional waters of the U.S. or isolated waters of the state. Participated in public involvement activities and preparation of Siting Board application, responses to requests for information, and mitigation measure development. This project was the first merchant solar project to complete the Kentucky Siting Board process. Currently constructed and operational.

Glover Creek Solar, Metcalfe County, KY (2020-00043) Site Characterization Study, Wetland Delineations, Phase I ESA, Glare Assessment, Acoustical Analysis, Groundwater Protection Plan and Cultural Resources Overview for a Proposed Solar Project. Confidential Client.

Kentucky. Managed site characterization studies, aquatic resources delineation, Phase I ESA, property valuation study, and cultural resources overview for solar project on an approximately 800-acre parcel with a 55-MW solar facility in Metcalfe County, KY. The study included a desktop review of federal and state data pertaining to sensitive resources such as listed species, wetlands or other surface waters, prime farmland, karst topography, and public and protected lands. A wetland delineation identified and demarcated aquatic features that might be jurisdictional waters of the U.S. or isolated waters of the state. Supported Siting Board application, responses to information requests, consultant report response, and public involvement. Obtained Clean Water Act Section 404 Nationwide Permit for stream crossings. Project has been constructed and is operational.

Critical Issues Analyses and Site Characterization Studies for Proposed Solar Energy Projects, Ballard, Breckinridge, Christian, Clinton, Grant, Hickman, Logan, Mason, and Mercer counties, KY. Confidential Clients. Kentucky. For multiple solar project sites, managed site characterization studies to identify potential environmental constraints associated with land cover/use, soils, wetlands and watercourses, farmland, threatened and endangered species, and other considerations. The studies included desktop assessments using publicly available databases and field reconnaissance surveys of the project areas to identify potential ecological and environmental site concerns.

Horseshoe Bend Solar (2020-00190). Project manager for ecological studies supporting development of a 60-MW solar facility in Green County, Kentucky. Oversaw stream and wetland delineations, critical issues analyses, threatened and endangered species habitat assessment, cultural historic and archaeological studies, Phase IESA, unanticipated discovery plan, cemetery plan, permitting matrices, and an environmental management plan. Identified historic cemeteries with graves of people who served in the Revolutionary War, War of 1812, and the Civil War and consulted with Kentucky Heritage Council on appropriate measures to protect these sensitive sites. **Mt Olive Creek Solar (2020-00226).** Project manager for ecological studies supporting development of a 60-MW solar facility in Russell County, Kentucky. Oversaw stream and wetland delineations, critical issues analyses, threatened and endangered species habitat assessment, cultural historic and archaeological studies, Phase I ESA, unanticipated discovery plan, cemetery plan, permitting matrices, complaint resolution plan, fence maintenance plan, and an environmental management plan.

Flat Run Solar, Taylor County, KY (2020-00272). Project Manager for a proposed 55-MW solar facility in Taylor County. Managed stream and wetland delineations, critical issues analyses, threatened and endangered species habitat assessment, cultural historic and archaeological

studies, Phase I ESA, unanticipated discovery plan, permitting matrices, complaint resolution plan, fence maintenance plan, and an environmental management plan.

Meade County Solar, Meade County, KY (2020-00390). Project Manager for environmental and technical studies for a proposed 40-MW solar facility. Oversaw background environmental surveys for the project, including wetland delineations, noise assessment, traffic analyses, cultural surveys, Phase I ESA, and threatened and endangered species habitat assessments and surveys of the Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*). Developed a soil management plan.

Henderson County Solar, Henderson County, KY (2020-00391). Project Manager for environmental and technical studies to support a proposed 50-MW solar facility. Prepared a cumulative environmental assessment and other studies to support the Siting Board application. Conducted stream and wetland delineation and prepared Clean Water Act Section 401 and 404 applications for stream crossing impacts.

60-Megawatt McCracken County Solar Project, McCracken County, KY (2020-00392). Project Manager for a proposed 60-MW solar facility. Prepared ecological, environmental, and technical studies to support siting board application. Conducted a bat mist-net survey; no Indiana bats, northern long-eared bats, or tricolored bats were captured.

Mantle Rock Solar, Livingston County, KY (2024-00050). Project Manager of ecological, environmental, and technical studies for a proposed 65-MW solar facility in Livingston County. Supported multiple public meetings and preparing the siting board application.

Barrelhead Solar, Wayne County KY. Project Manager for a proposed 54-MW solar facility in Wayne County. The Project Area covers approximately 402 acres. A critical issues analysis, Phase I ESA, economic analysis, property valuation study, habitat assessment, stream and wetland delineation, bat mist-net survey, eagle and raptor survey, traffic study, glare analysis, and acoustic assessment have been prepared to help revise design to avoid or minimize impacts to sensitive features on the site. Jurisdictional wetlands and streams as well as 100-year floodplains were identified and recommended setbacks for protection.

Hardin County Solar, Hardin County, KY (2023-00312). Project Manager for an 85-MW solar facility on approximately 650 acres. Local planning and zoning was a component of this project. Supported multiple environmental and technical studies. Threatened and endangered wildlife habitat has been assessed. A sandhill crane impact assessment has been completed. Cultural resources recommended for protection. Designed setbacks and avoidance will assure protection and minimal impact. Additional studies include the following: cumulative environmental assessment, traffic and rail study, economic impact study, property value study, glare analysis, visual impacts assessment and visual renderings, and an acoustical analysis.

Big Brush Solar, Green County, KY. Project Manager for a proposed 85-MW solar facility in Green County. Prepared a stream and wetland delineation, habitat assessment, Phase I ESA, and cultural resources and archaeological desktop analysis to help revise designs to avoid or minimize impacts to sensitive resources.

Permitting Support for Multiple Solar Projects. Confidential Clients. Kentucky. Managed development of federal, state, and local permitting for multiple solar projects in Kentucky.

Obtained U.S. Army Corps of Engineers Nationwide Permits, Kentucky Division of Water Section 401 Water Quality Certifications, floodplain permits, and stream crossing permits.

Acoustic Analysis and Glare Studies for Multiple Solar Projects. Confidential Clients. Kentucky. Managed acoustical analyses for multiple projects. Described existing sound levels from the project site and surrounding areas as well as potential impacts from construction, operation, and maintenance activities. Provided a report of the findings of the acoustical analyses. The report will contain a summary of the project, describe existing sound conditions, identify potential sensitive receptors (e.g., residences), and evaluate potential construction and operation sound levels. Conducted glare analyses for potential glare to airports, nearby residents, and travelers on adjacent roadways from the solar project.

Site Characterization Study for Solar Energy Development. Confidential Client. Breckinridge County, Kentucky. Assistant Project Manager for a site characterization study analyzing a property in Breckinridge County, Kentucky, for possible development as a solar energy generating facility. The study included a desktop review of federal and state data pertaining to sensitive resources such as listed species, wetlands or other surface waters, prime farmland, karst topography, and public and protected lands. Copperhead staff then performed a one-day field verification to characterize vegetative communities, possible bat habitat, and the presence of jurisdictional waters. A summary report that outlined potential environmental concerns and presented a permitting matrix delineated by issuing agency, trigger, and timeline was provided to the client.

Biological Assessments of Indiana Bats, Northern Long-eared Bats, and Bog Turtle for Proposed Solar Projects. Confidential Clients, Pennsylvania and New York. Managed the development of a biological assessment focusing on adverse effects to bat habitat. Oversaw consultation with U.S. Fish and Wildlife to develop mitigation alternatives. Supported development of a conservation easement for bat mitigation.

Critical Issues Analyses (CIAs) for Multiple Solar Facilities. Confidential Client. Tennessee. Project manager for development of multiple CIAs across Tennessee. The CIA's goal is to gain a better understanding of the environmental issues that could potentially affect project development. Some of the resource areas from which Copperhead collected information include vegetation communities and general wildlife, threatened and endangered species, migratory bird nests, soil types, and historic and cultural resources. The goal of wetland/stream mapping is to estimate how much of the Project Area may be wetlands as opposed to uplands and to identify anticipated buffer setbacks. The information gathered helps inform Copperhead and the client about regulatory adherence and what permits will be necessary.

Ecological Studies and Critical Issues Analyses for Solar Projects in Indiana, Tennessee, Michigan, Missouri, Mississippi, New York, and Virginia. Managed ecological desktop reviews and botanical, eagle, bat, mussel, and wetland surveys for solar projects in multiple states.

Critical Issues Analysis for Multiple Battery Energy Storage System Projects in Eight States. Project Manager for critical issues analyses of potential battery energy storage systems (BESS) in Alabama, Illinois, Iowa, Michigan, Michigan, Tennessee, Texas, and Virginia. Conducted desktop analyses, identified potential issues of concern, outlined regulatory and permitting requirements, and developed permit matrices.

DAVID C. CROUSE, P.E.
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Raleigh, NC 27614
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SKILLS

- 45 years of experience in the power engineering and construction field
- EPC contract negotiator
- Construction project management
- Litigation planning and development
- Development engineering for utility scale solar and battery storage

EXPERIENCE

Sunrise Renewables LLC (a Copenhagen Infrastructure Partners affiliate)

V.P. Engineering 6/22-Present

- Responsible for coordinating the engineering design development for Sunrise Renewables portfolio of Solar and Battery Storage projects including: Gullah Geechee Renewable Energy Center Solar, SC; Cypress Gardens BESS, SC; Lost City Solar, KY.

Kiewit Engineering Group

Regional Engineering Manager 10/18-11/21

- Responsible for sales and marketing for new generation engineering projects and project management of various plant based engineering projects. Clients included: Rockland Capital, NAES, NV Energy, Linden Cogeneration, Atura Power Canada, Duke Power.

Mitsubishi Hitachi Power Systems, Ann Arbor, MI

Regional Director of Marketing & Sales 5/15-9/18

- Responsible for sales and marketing for new generation. Clients include: DTE, DTE Energy Services, Consumers Power, Lansing Board of Water & Light, Quantum, Novi Energy, Development Partners. Interface with local AEs including Black & Veatch and HDR.
- Lead sales role in the development and bid effort for the Detroit Edison Blue Water 1100 MW and LBWL 250MW CCGT projects.

Calpine Corporation, Garrison Energy Center Dover Delaware

Construction Project Manager, Dual Fuel System 11/14-5/15

- Responsible for managing the construction of the Garrison Energy center fuel oil system for a new 400MW CCGT plant.

Sithe Global, Ann Arbor, Michigan

Vice President , Engineering, Environmental & Construction 11/06-11/14

- Responsible for managing the engineering and construction of the 800MW Goreway CCGT in Brampton, Ontario.
- Managed litigation preparation for 250MW Bujagali Hydroelectric facility in Uganda
- Involved in the development of 600MW Coal-fired in Raigarh, India

DTE Energy Services, Ann Arbor, Michigan

Vice President , Engineering, Environmental & Construction 08/01-11/06

- Responsible for staff of 19 Technical, Environmental and Project Managers overseeing a diverse collection of projects including two 320 MW GT peaker plants, two Industrial Service projects, six Synthetic Fuel (Coal) relocation facilities. Member of DTEES leadership team of eight V.P.s responsible for corporate planning.

Sithe Energies, Inc. Oswego, New York

Vice President , Construction 12/98-8/01

- Program Manager, Sithe New England Projects – Responsible for EPC contract negotiations and Construction Management for the 1600MW Mystic and 800MW Fore River combined cycle facilities with total value of \$1.2Bn USD. Supervision and coordination with project teams at both Boston construction sites and the EPC Contractor (Washington Group now known as AECOM).
- Project Manager, Rades II Tunisia Project - Responsible for all aspects of construction Project Management for this 471MW, \$179MM USD combined cycle project in Tunisia.

Coordination with Consortium partners and construction project teams in London, Paris and Tunis.

Manager, Project Construction 12/93-12/98

- Project Manager, Cardinal Litigation – Coordinated efforts of U.S. and Canadian legal counsel during litigation development. Prepared litigation planning strategies and coordinated organization of over 1.2MM pages of supporting documentation. Provided over 30 days of discovery testimony leading to the successful resolution in favor of Sithe.
- Project Manager, Thailand Projects - Responsible for all aspects of construction Project Management for two 120MW, \$230MM USD Thailand Cogeneration Projects. Point contact with EPC contractor for Samutprakarn Cogeneration Co., Ltd. Responsible for budget tracking, engineering design review, coordination of site supervision.
- Project Manager, Cardinal Power of Canada, L.P. - Responsible for all aspects of Project Management for Cardinal Power of Canada, L.P. cogeneration facility in Cardinal, Ontario, Canada. Oversight of Start-up & Commissioning and Performance Testing. Point contact with EPC contractor on 156MW Cardinal Cogeneration Project. Responsible for budget tracking, engineering design review, coordination of site supervision.

Project Engineer 6/92-12/93

- Project Engineer - Point contact with EPC contractor on 156MW Cardinal Cogeneration Project. Responsible for budget tracking, Engineering design review, Coordination of Site supervision.

Mechanical Engineering Consultant 2/92-6/92

- Developed Work Scope document and evaluated bids for the 156MW cogeneration facility in Cardinal Ontario, Canada. Performed steady-state thermodynamic analysis to verify bidder heat balances.

ESSCOR Inc. Solana Beach, California

Principal Engineer 1988 - 1992

- Program Manager, Consolidated Edison of New York Projects - Hudson Avenue Station Performance Monitoring System, Training Simulator for Astoria & Ravenswood Stations, R&D Hybrid Simulator, 74th Street Station Steady State and Dynamic Simulators, Alarm Response Procedure Development.

- Project Manager, Hudson Avenue Performance Monitoring System - designed and developed an on-line graphical system to provide operators with real time Heat Rate sensitivity analysis for this Fossil Fuel steam sendout station.
- Project Manager, I/N-Kote Graphic Simulator - developed a custom procedural trainer using a discrete PLC simulation driving optically scanned graphic displays of an automated steel plating plant.
- Project Manager, Consumers Power Palisades Nuclear Simulator Instructor Station - designed interface and managed software team in development of an interactive touchscreen workstation for simulator training instructor monitoring and failure initiation.
- Project Manager, Sithe Energies' (formerly Energy Factors) Oxnard Co-generation Facility, AAARP distributed refrigeration simulation analysis - conducted design simulation studies of candidate control strategies for a unique cogeneration refrigeration system application.

Senior Engineer 1986 - 1988

- Project Manager, SCE Thermal Energy Storage Evaluation Model (TESEM) - Designed and programmed a PC-based interactive graphic software tool to assess the cost feasibility of Cool Storage installations.
- Lead Engineer, CCPA No. 1 Geothermal Plant Dynamic Simulator - Performed transient and failure analysis for parallel plant configuration.

Solar Turbines, Inc. San Diego, California

Systems Engineer 1983 - 1986

- Conducted start-up commissioning and testing of the RAnkine Cycle Energy Recovery (RACER) combined cycle system developed for the Navy at the Naval Ship Systems Engineering Station (NAVSSSES) in Philadelphia. Developed, programmed, assembled and tested Modicon Programmable Controller for the detection of flameout conditions in the G.E. LM2500 gas turbine used in the RACER combined cycle system.
- Performed dynamic and steady-state analysis of the Solar Once-through HRSG in support of the RACER combined cycle system analysis.
- Performed dynamic and steady-state analysis and hybrid testing of a Rankine Bottoming Cycle (RBC) for the Caterpillar 3516 diesel engine and the RACER combined cycle system.

Activity Associate 1982 - 1983

- Performed finite element analysis for the structural and thermal design of gas turbine and HRSG components. Conducted torsional and lateral vibration analyses on the gas turbine and gas compressor packages.

International Engineering Inc., San Francisco, California

Engineering Assistant 1981 - 1982

- Part-time and summer internship position. Reviewed engineering drawings for dimensional accuracy and completeness for hydroelectric plant projects. Developed PC-based hydro-turbine sizing software.

U.S. Borax Chemical Co., Boron, California

Engineering Co-op Student 6/80-12/80

- Six month assignment at the U.S. Borax open pit mining and refinery operation in the Mojave desert. Conducted Crystallizer on-line cleaning study, developed pump head curve software analysis tools, data gathering on turbo-dissolver start-up.

EDUCATION

B.S. Mechanical Engineering (Option: Design), University of California, Berkeley, **1982**

Extension courses, University of California, San Diego: "Numerical Methods",
"Continuous Process Control", "Digital Design of Microprocessors"
1984-85

CERTIFICATIONS

Certified Professional Engineer (Mechanical) in State of California since March, 1985 (#23618)

Certified Co-Generation Professional by AEE, August 1995

Natural Resources Team Lead, Project Manager, Senior Biologist

11 years of experience · Louisville, Kentucky

Shane serves as the Natural Resources Team Lead for the Kentucky natural resources team. He has eleven years of experience in the natural resources field conducting work in multiple areas with a particular focus on USACE Section 404 permitting, Section 7 protected species consultation, Phase I ESAs, hazardous materials surveys, and various ecological and biological field surveys. He is a Qualified Hydrologic Professional (QHP) in the state of Tennessee and has personally conducted thousands of acres of stream and wetland delineations throughout the southeast. Additionally, he is a federally permitted bat biologist permitted for Indiana bats (*Myotis sodalis*), northern long-eared bats (*Myotis septentrionalis*), gray bats (*Myotis grisescens*), and Virginia big-eared bats (*Corynorhinus townsendii virginianus*).

EDUCATION

BS, Natural Resource and Environmental Science,
University of Kentucky, Lexington, Kentucky, United States, 2014

PROJECT EXPERIENCE

RENEWABLE ENERGY

Song Sparrow Solar | Clearway Energy | Ballard County, KY, USA | 2023-Present | Project Manager; Field Lead

Served as the Project Manager and guided the client through the Kentucky Siting Board process for a 104-megawatt utility scale solar farm located in Ballard County, Kentucky. Attended public meetings and the siting board hearing and managed the completion of all the studies required for siting board approval (noise, decommissioning, traffic, etc.) as well as assisting in drafting the siting board application. Was the acting technical lead for wetlands, T&E, and the Phase I ESA and led teams to complete the field surveys and provide technical reports as well as a jurisdictional determination with USACE.

Dogwood Corners Solar | Oriden Power | Christian County, KY, USA | 2023-Present | Project Manager

Served as the Project Manager and assisted in preparation of the Kentucky Siting Board application for the 125-megawatt utility scale solar and 25-megawatt BESS located in Christian County, Kentucky within the TVA service region. Managed the completion of technical reports required for the siting board application including a limited noise assessment, traffic assessment, and decommissioning plan. Additionally, attended the public meeting and acted as an expert witness at the siting board hearing.

Northern Bobwhite Solar | EDF Renewables | Marion County, KY, USA | 2023-Present | Project Manager

Served as the Project Manager and assisted the client with environmental studies and technical studies required for the state siting board application for a 96-megawatt utility scale solar development located in Marion County, Kentucky. Managed production of a traffic assessment, limited noise assessment, Phase I ESA, and permit matrix detailing federal, state, and local permits that may be required in the development of the site. Additionally, assisted in conducting threatened and endangered species surveys for the Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*). No currently listed bat species were captured during the surveys.

Summer Shade Solar | Candela Renewables | Metcalf County, KY, USA | 2021-Present | Project Manager

Served as the Project Manager and assisted the client with environmental studies and technical studies required for the state siting board application for a 104-megawatt utility scale solar development located in Metcalf County, Kentucky. Additionally, Stantec conducted all the background environmental surveys for the project including wetland delineations, cultural surveys, Phase I ESA, and threatened and endangered species surveys for the Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*). No currently listed bat species were captured during the surveys.

Bluegrass Green Solar | Confidential Client | Ohio County, Kentucky, USA | 2023-2024 | Project Manager

Acted as the Project Manager for assistance in the development of a utility scale solar project located in Ohio County, Kentucky. Managed and provided technical review of a Critical Issues Analysis (CIA), Phase I ESA, permit matrix covering any federal, state, or local permits that may be required to develop the project, and limited wetland delineation on approximately 3,200 acres or reclaimed coal mine.

Stonefield Solar Project | Naturgy Candela | Hardin County, KY, USA | 2021-Present | Project Manager; Wetlands Technical Lead

Currently serving as the Project Manager assisting in the development of a utility scale solar project located in Hardin County, Kentucky. Lead field surveys for the entire site including wetland delineation, T&E habitat assessments, and Phase I ESA. Stantec also conducted T&E presence/absence surveys for listed bat species for the project. Several federally endangered Indiana bats (*Myotis sodalis*) were captured during the surveys. Shane is leading coordination with USFWS to determine mitigation measures for the bats captured onsite. Additionally, will assist the client in navigating the state siting board process and will produce all of the background studies required for the state permitting process (noise, traffic, decommissioning, etc.).

Confidential Project | Confidential Client | Kentucky, USA | 2023-Present | Project Manager

Serving as the Project Manager for a utility scale energy park including wind, solar, and BESS in Kentucky. Managing all the background environmental studies including eagle nest surveys, raptor surveys, bat presence/absence surveys, and acoustics. Additionally, will assist the client in navigating the state siting board process and will produce all of the background studies required for the state permitting process (noise, traffic, decommissioning, etc.).

Flat Top Solar | Confidential Client | Kentucky, USA | 2021-Present | Technical Lead

Stantec was retained to conduct field surveys and technical reports for environmental surveys on an approximate 450-acre utility scale solar development located in Kentucky. Shane served as the field lead for conducting stream and wetland surveys for use in coordination with USACE. While on site a threatened and endangered species habitat assessment was conducted to determine the potential for any listed species to be present on the site. Additionally, he served as the primary author for the technical reports produced from these surveys. He will assist the client in the management and submittal of the state siting board application.

Sunflower Prairie Solar | Confidential Client | Kentucky, USA | 2021-Present | Technical Lead

Stantec was retained to conduct field surveys and technical reports for environmental surveys on an approximate 800-acre utility scale solar development located in Kentucky. Shane served as the field lead for conducting stream and wetland surveys for use in coordination with USACE. While on site a threatened and endangered species habitat assessment was conducted to determine the potential for any listed species to be present on the site. Additionally, he served as the primary author for the technical reports produced from these surveys. He also conducted bat surveys to determine the presence/absence of listed bat species within the project. He will assist the client in the management and submittal of the state siting board application.

Ashwood Solar | RWE Renewables | Lyon County, KY, USA | 2020-Present | Project Manager

Served as the Project Manager and guided the client through the Kentucky Siting Board process for a utility-scale solar farm located in Lyon County, Kentucky. Attended public meetings and the siting board hearing and managed the completion of all the studies required for siting board approval (noise, decommissioning, traffic, etc.) as well as assisting in drafting the siting board application. Was the acting technical lead for wetlands, T&E, and the Phase I ESA and led teams to complete the field surveys and provide technical reports as well as a jurisdictional determination with USACE.

Martin County Solar I | Savion | Martin County, KY, USA | 2020-Present | Project Manager

Lead a 10-day wetland delineation on an approximately 1,200-acre site in Eastern Kentucky to assist in the development of a utility scale solar farm. Wetland delineations were conducted according to the standard methods set forth in the U.S. Army Corps of Engineers (USACE) Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0). In total, 53 wetlands were identified totaling 6.8 acres and 40 streams totaling almost six miles. Also assisted another team in completing a habitat assessment for the Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*) on the site while conducting delineations. Additionally, assisted in conducting presence/absence surveys for listed bat species on the site over three days. Later serving as the project manager Shane assisted in preparation of several of the documents required for siting board approval. The project has since been approved by the Kentucky Siting Board.

Martin County Solar II | Savion | Martin County, KY, USA | 2020-Present | Project Manager

Lead a 6-day wetland delineation on an approximately 800-acre site in Eastern Kentucky to assist in the development of a utility scale solar farm. Wetland delineations were conducted according to the standard methods set forth in the U.S. Army Corps of Engineers (USACE) Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0). In total, 53 wetlands were identified totaling 6.8 acres and 40 streams totaling almost six miles. Also assisted another team in completing a habitat assessment for the Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*) on the site while conducting delineations. Additionally, assisted in conducting presence/absence surveys for listed bat species on the site over three days. Later serving as the project manager Shane assisted in preparation of several of the documents required for siting board approval. The project has since been approved by the Kentucky Siting Board.

Preston Solar | Energix | Bath County, KY, USA | 2023 | Project Manager

Served as the Project Manager for the development of a utility scale solar development located in Bath County, Kentucky. Stantec conducted a wetland delineation, habitat assessment, and desktop cultural resources assessment to assist in identifying any constraints that would be a potential hinderance to solar farm development and inform design on the site.

Clinton Solar | Confidential Client | Clinton County, KY, USA | 2023-Present | Project Manager

Served as the Project Manager for the development of a utility scale solar development located in Clinton County, Kentucky. Stantec conducted a wetland delineation, habitat assessment, and desktop cultural resources assessment to assist in identifying any constraints that would be a potential hinderance to solar farm development and inform design on the site. Additionally, Stantec is conducting presence/absence bat surveys for the project.

Bluegrass Plains Solar | EKPC | Fayette County, KY, USA | 2023-2024 | Technical Lead

Served as the technical lead for the development of a utility scale solar development located in Fayette County, Kentucky. Stantec conducted a wetland delineation, habitat assessment, and Biological Assessment to assist in identifying any constraints that would be a potential hinderance to solar farm development and inform design on the site. Additionally, Stantec conducted presence/absence bat surveys for the project.

Solar Coops 4-7 | EKPC | Kentucky, USA | 2024-Present | Technical Lead

Served as the technical lead for the development of four utility scale solar developments located throughout Kentucky. Shane lead the development of the Site Assessment Reports and supporting studies (noise, decommissioning plan, vegetative screening plan, glare study, property value assessment, etc.) in support of a siting board application. Additionally, he is leading the background environmental studies on one of the four projects where Stantec is conducting a wetland delineation, habitat assessment, cultural resources surveys, and Biological Assessment to assist in identifying any constraints that would be a potential hinderance to solar farm development and inform design on the site.

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