

## Statement of Qualifications Renewables **Experience** and Capabilities in Select States







## **Corporate Overview**

AECOM is built to deliver a better world. We provide integrated, interdisciplinary environmental planning and engineering services for governments, businesses, and organizations in more than 150 countries. As a fully integrated firm, we connect knowledge and experience across our global network of experts to help clients solve their most complex challenges.

From high-performance buildings and infrastructure to resilient communities and environments, to stable and secure nations, our work is transformative, differentiated, and vital. A Fortune 500 firm, AECOM companies have annual revenue of approximately US\$13.3 billion.

Our team includes architects, engineers, designers, planners, scientists, and management and construction services professionals — serving clients around the world. AECOM is ranked as the #1 engineering design firm by revenue in Engineering News-Record magazine's annual industry rankings and has been recognized by Fortune magazine as one of the World's Most Admired Company

The firm is a leader in all of the key markets that it serves, including energy, transportation, facilities, environmental, oil and gas, water, high-rise buildings, and government.

With more than 90 years of experience, y projects of every type and size.

Our team has the unrivaled ability to develop, design, and/or construct power projects by enhancing the electrical infrastructure, implementing energy reduction, and developing on-site power, either with traditional power sources or by renewable energy sources such as photovoltaic (PV) solar energy.

AECOM has successfully completed numerous energy projects across the globe. These projects include power projects for transmission systems; substations; on-site power generation, utility-scale conventional; and renewable power generation, including energy storage systems.



#### With more than 90 years of experience, we have conceived, planned, and built energy

## **Our Services**

Using integrated project management and technical resources, AECOM plans, develops, and executes environmental review and permitting, engineering design, procurement, construction, and commissioning for energy projects around the world.

#### **ASSESSMENTS AND FRONT-END STUDIES**

- Site selection, siting studies
- Conceptual design, system sizing
- Grid interconnections
- Risk and critical issues analysis
- Feasibility studies
- Alternatives evaluations
- Social impact assessments
- Financial models
- Economic benefit assessments
- Efficiency improvements
- Wind resource, solar radiance assessments



#### **DETAILED ENGINEERING**

- Civil, electrical, environmental, geotechnical, and structural engineering
- Construction/as-built drawings
- Instrumentation, controls electrical collection, and Supervisory Control and Data Acquisition (SCADA)
- Substation/grid connection



#### **PLANNING AND PERMITTING**

- Project/resource planning
- Life cycle analysis
- Risk and hazard assessments
- Baseline environmental surveys
- Resource studies and assessments
- Environmental compliance
- Public/stakeholder outreach
- Preliminary design
- Utility requirements



#### **COMPLIANCE**

- Pre-Construction Planning
- Pre- and Post-Construction Monitoring
- Construction Compliance
- Construction Management
- EHS Management

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• Equipment selection, sizing, and specifications

• Operation and Maintenance (O&M) Compliance

#### AECOM is structured to offer our complete range of services globally. We have focused on the following states:

- United States
- Alabama
- Arizona
- Arkansas
- California
- Colorado
- Georgia
- Hawaii
- Illinois ۲
- Indiana
- Louisiana
- Maryland
- Minnesota
- Nevada

- New Jersey
- New Mexico
- North Dakota
- Oklahoma •

- Texas
- Virginia
- Washington
- Wisconsin
- Wyoming

More Information: AskEnvironment@aecom.com

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• New Hampshire North Carolina • Pennsylvania South Carolina • PJM Territory

## **United States**



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## Alabama

Alabama has one office in the state with environmental and engineering professionals experienced in engineering design, plan reviews and environment compliance inspections (stormwater), project siting, impact assessment and permitting (IAP), and hazardous materials, including environmental health and safety, environmental site assessments (ESAs), and remediation (HazMat). AECOM has supported dozens of renewable energy projects in the state, including solar and wind. Relevant projects include:

**CONFIDENTIAL CLIENT(S).** AECOM has prepared critical issues analyses (CIAs) and site characterization studies, conducted wetland delineations and prepared jurisdictional delineation reports, performed Phase 1a cultural resources studies, and prepared Phase 1 ESAs on multiple sites across Alabama. Information was used to delineate site constraints and development requirements, including required permits and approvals.

#### RIVER BEND, LLC, SOLAR FARM PROJECT PERMITTING AND ENVIRONMENTAL ASSESSMENT, TENNESSEE VALLEY AUTHORITY (TVA), LAUDERDALE COUNTY, ALABAMA. AECOM

completed a third-party environmental assessment (EA) for an 80-megawatt (MW) alternating current (AC) solar facility in Lauderdale County, Alabama. Under TVA's Renewable Standard Offer (RSO) Program and under the terms of the conditional Power Purchase Agreement (PPA) approved by TVA, the 645-acre solar facility is being constructed and operated by River Bend Solar, LLC. In support of the preparation of a National Environmental Policy Act of 1969 (NEPA) EA, AECOM conducted all required field studies. AECOM also conducted a Phase I Cultural Resource Survey, an Historic Architecture Survey, and a threatened and endangered (T&E) species survey, and inventoried and delineated wetlands on the project site. In association with the T&E surveys, bat habitat surveys were also conducted. AECOM also prepared visual renderings of the proposed project for incorporation in the EA.



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## Arizona

Arizona has two offices in the state with environmental and engineering professionals experienced in engineering design, plan reviews and environment compliance inspections (stormwater), project siting, IAP, and hazardous materials, including environmental health and safety, ESAs, and remediation (HazMat). AECOM has supported several renewable energy projects in the state, including solar and wind. Relevant projects include:

#### **COOLIDGE SOLAR CENTER PROJECT, PINAL**

**COUNTY, ARIZONA.** AECOM managed biological and cultural resources studies and performed a sensitive species habitat assessment and cultural resources assessment for a 300 MW photovoltaic solar project in Pinal County, Arizona. AECOM also provided NEPA compliance, tribal consultation, and regulatory permitting efforts related to electrical crossings of irrigation canals managed by the Bureau of Indian Affairs.

#### **RECURRENT ENERGY DESERT BLOOM BEST**

**PERMITTING.** AECOM is providing local permitting support to Recurrent Energy for a Battery Energy Storage System (BESS) Project in Maricopa County, Arizona. Work includes support for a Major Amendment to the Industrial Use Plan of Development and supporting tasks such as agency and public meeting support, application support, and technical studies as needed (e.g., fire safety, traffic, noise, and visual studies).





## Arkansas

Arkansas has one office located in the state with environmental and engineering professionals experienced in engineering design, plan reviews and environment compliance inspections (stormwater), project siting, IAP, and hazardous materials, including environmental health and safety, environmental site assessments and remediation (HazMat). AECOM has supported dozens of renewable energy projects in the state, including solar and wind. Relevant projects include:

**CONFIDENTIAL CLIENT(S).** AECOM has prepared multiple CIAs across the state, including site characterization studies to identify potential fatal flaws and/or permitting requirements.

**SOLAR SITE PERMITTING, LONOKE AND CHICOT COUNTIES, ARKANSAS.** AECOM provided environmental services for a proposed solar project covering approximately 1,590 acres. AECOM performed wetland delineations, a special-status species survey, and cultural resources studies to support the permitting of the project. AECOM also assisted with preparation of a U.S. Army Corps of Engineers (USACE) jurisdictional determination request.



## California

California has 12 offices located across the state with environmental and engineering professionals experienced in power projects, including renewable energy and the technical services necessary for all phases of development. AECOM has supported dozens of renewable energy projects in the state, including solar. Relevant projects include:

## PINE TREE SOLAR PROJECT ENGINEERING AND PROCUREMENT SERVICES, CANTIL,

**CALIFORNIA.** AECOM provided comprehensive engineering design and equipment procurement services for the 9.75 MW Pine Tree Solar Project. Co-located with the Los Angeles Department of Water and Power's (LADWP's) Pine Tree Wind Farm, this was one of the largest utility-owned photovoltaic projects in the U.S. when it was completed in 2012. LADWP construction forces built the project with on-site assistance and training from AECOM.

To minimize the levelized cost of energy and maximize electricity production, AECOM developed an innovative design to take maximum advantage of this space-constrained site in the Tehachapi Mountains. The design uses three different module tilt angles to optimize output while minimizing inter-row shading.

## BEACON SOLAR PROJECT PERMITTING AND COMPLIANCE, KERN COUNTY, CALIFORNIA.

AECOM led the permitting of both the original 250 MW concentrating solar thermal power and subsequent PV for the Beacon Solar Project located on approximately 2,000 acres. We also led linear permitting for a 3-mile, 230-kilovolt (kV) generation tie-in line. Our work included biological and cultural resources field studies, geo-archaeological field studies, groundwater modeling, hydrology studies, Phase 1 and Phase 2 environmental site assessments (ESAs), and other environmental technical studies. We also

prepared the Application for Certification for submittal to the California Energy Commission (CEC) and provided support throughout the permitting process, which included addressing the requirements and concerns of many federal, state and regional agencies, such as the U.S. Fish and Wildlife Service (USFWS), FEMA (Federal Emergency Management Agency), U.S. Army Corps of Engineers (USACE), California Department of Fish and Wildlife (CDFW), Central Valley Regional Water Quality Control Board (RWQCB), California Department of Transportation, and Kern County. AECOM also served as the lead biological and cultural resources construction compliance contractor, providing strategic guidance, in-the-field clearance and monitoring and construction management.

#### RE CRIMSON SOLAR AND STORAGE PROJECT, RIVERSIDE COUNTY, CALIFORNIA. AECOM

is serving as the lead technical consultant for Recurrent Energy, providing environmental permitting and review support through both the Federal and state permitting processes with the Bureau of Land Management (BLM) as the Federal NEPA lead agency and CDFW as the state California Environmental Quality Act (CEQA) lead agency. AECOM has provided strategic support to project permitting and agency coordination in addition to required technical deliverables, including assistance with the preparation of a new project description and plan of development for the BLM, air quality and greenhouse gases reports; biological, cultural, and paleontological technical resource reports; a geotechnical assessment: noise and socioeconomic studies: a traffic analysis; a visual impact assessment; and a water supply assessment. AECOM has also provided all required field studies to support the biological resources assessments, including surveys for desert tortoise, burrowing owl, desert

kit fox, American badger, Mojave fringe-toed lizards, rare plants, and jurisdictional waters, as well as a year of bird and bat surveys. AECOM also conducted the paleontological resources assessments for the site. In addition to project planning and resource studies, AECOM has also prepared draft pre-construction compliance plans to support the NEPA/CEQA analysis and permit application documents for jurisdictional features. AECOM continues to provide strategic support to Recurrent Energy for the Federal and state permitting of this generation and storage facility.

#### HIGH DESERT SOLAR PROJECT 108MW, HDSI, LLC., VICTORVILLE, CALIFORNIA.

AECOM is providing environmental permitting and strategic compliance components of this 108 MW photovoltaic solar and battery storage project located in Victorville, California, The work includes strategic oversight of the environmental permitting components, including permits for impacts to state and Federal jurisdictional waters and Federal and state listed species. AECOM led the Section 10 consultation process with the USFWS, including preparation of the required Habitat Conservation Plan and facilitation of the associated NEPA process, coordinating with other environmental consultants on preparation of state permit packages, facilitating compensatory mitigation coordination, and coordinating agency consultations and negotiations with the USFWS, USACE, CDFW, RWQCB, and the U.S. Air Force. AECOM is currently leading environmental construction compliance as well as overall program management and construction management for the construction phase.

#### SULLIVAN ROAD SOLAR PROJECT, SAMSUNG, STANISLAUS COUNTY, CALIFORNIA. AECOM

is provided planning and permit services for the development of a 40 MW AC solar farm on existing grazing lands west of Interstate 5 in the southwestern portion of Stanislaus County.

The facilities would occupy approximately 214 acres within portions of three adjacent parcels totaling 1,049 acres and interconnect to the existing Miller Substation (electrical). AECOM led CEQA compliance with preparation of an Initial Study/Negative Declaration. In addition, AECOM provided permit support services for the project, including the Williamson Act contract cancellation, CDFW Incidental Take Permit, CDFW Streambed Alteration Agreement, USACE Clean Water Act (CWA) Section 404 permit, and CWA Section 401 Water Quality Certification. AECOM also provided USFWS Section 7 consultation and cultural resources support for Section 106 consultation. In support of the final project design, AECOM provided a Phase I ESA and a Geotechnical Report to meet the requirements of the Stanislaus County Building Permits Division.

#### CRITICAL ENVIRONMENTAL ISSUES ANALYSES/ SITE CHARACTERIZATION STUDIES, CONFIDENTIAL CLIENTS. AECOM

has conducted desktop research to quickly assess potential fatal flaws on dozens of proposed sites in California that would affect their development into solar power generating sites. The desktop analyses included reviews of vegetation to identify important habitat areas for species of concern; land uses for zoning, ownership; 1-mile buffers for constraints; species of concern in the areas; wetlands/ jurisdictional waters; geotechnical analyses and mapping; environmental database reports; cultural resources, including assessing historical resources such as Native American and other historic trails; solar glare hazard analyses; permits with overall risk assessments of successful development; local ordinances to address zoning issues/ special use provisions; and permit risks. Delivery of all data was in geographic information system (GIS) shapefile format.



## Colorado

Colorado has four offices located across the state with environmental and engineering professionals experienced in power projects, including renewable energy and the technical services necessary for all phases of development. AECOM has supported dozens of renewable energy projects in the state, including solar. Relevant projects include:

**CONFIDENTIAL CLIENT(S).** AECOM has prepared multiple CIAs across the state, including site characterization studies to identify potential fatal flaws and/or permitting requirements for solar development and green hydrogen projects.

#### **GRAZING YAK SOLAR, EL PASO COUNTY,**

**COLORADO.** AECOM has provided cultural resources support for this solar photovoltaic facility on private lands encompassing approximately 270 acres near Calhan, El Paso County, Colorado. The

client sought a zoning permit from El Paso County under the powers granted to the County through the 1041 regulations (Colorado's Revised Statutes 24-65.1-101). As part of the 1041 process, the County evaluated the project's potential effects on areas that contain "historical, natural, or archaeological resources of statewide importance." In 2018, on behalf of NextEra, AECOM Technical Services, Inc. (AECOM) completed an intensive pedestrian cultural resources survey of the project area. The survey encountered and recorded within the area of direct project effects erosion control features built by the Civilian Conservation Corps (CCC) in the 1930s and a historic isolated find. The CCCconstructed features were evaluated as eligible for listing in the National Register of Historic Places, but construction activities avoided any adverse effects to the site.





## Georgia

Georgia has one office located in the state with environmental and engineering professionals experienced in engineering design, plan reviews and environment compliance inspections (stormwater), project siting, IAP, and hazardous materials, including environmental health and safety, environmental site assessments and remediation (HazMat). AECOM has supported dozens of renewable energy projects in the state, including solar and wind. Relevant projects include:

**CONFIDENTIAL CLIENT(S).** AECOM has worked on three sites performing erosion and sediment (E&S) stormwater plan reviews, Stormwater Independent Engineer inspections, design, and environmental compliance inspections.

**THREE SOLAR FARMS, GEORGIA.** AECOM was tasked with the permitting of three PV solar farms in Georgia. As part of the project, AECOM completed jurisdictional wetland delineations and threatened and endangered species surveys at the proposed sites. AECOM was also responsible for coordinating all Federal consultation and permit preparation associated with USACE (wetlands) and USFWS and state agencies (T&E species). This project also included a visual resource assessment of potential glint and glare impacts associated with one of the sites. AECOM coordinated Phase I and II cultural resources surveys associated with one site and prepared supporting documentation for submission to the Georgia State Historic Preservation Officer.

#### **PRELIMINARY SITE SCREENING SUPPORT,**

**GEORGIA.** AECOM performed a preliminary site screening of 12 potential sites and generator tie-in routes and field verification of five preferred sites in association with the Georgia Power Advanced Solar Initiative. Environmental conditions evaluated included Waters of the United States, Waters of the State, floodplains, soils, other biological resources, cultural resources, and aesthetic/visual resources (e.g., potential impacts to nearby residents). The analysis included recommendations and a draft scope of work to perform follow-up studies and analysis needed in order to identify any uncertainties and fully develop the site. Of the five preferred sites, three sites moved forward into construction.

#### ENVIRONMENTAL ASSESSMENT, GEORGIA POWER, HOUSTON COUNTY, GEORGIA. This

EA is for a proposed solar farm in Houston County, Georgia, on property north of Robins Air Force Base (AFB). The project involves construction and operation of an approximately 130 MW solar power plant on approximately 800 acres of land, including installation of anew transmission line (of approximately 4 miles, 115 kV) on Robins AFB. Because the new transmission line is to be located on the base, the EA is being prepared to satisfy NEPA compliance requirements of Robins AFB and the Air Force Environmental Impact Analysis Process.

#### ENVIRONMENTAL IMPACT STATEMENT, RENEWABLE ENERGY TECHNOLOGIES, ROBINS AIR FORCE BASE, GEORGIA. AECOM prepared the

Environmental Impact Statement (EIS) to evaluate renewable energy technologies, including solar PV, wood waste biomass, wind, hydropower, geothermal, municipal solid waste, and landfill gas, as well as a small nuclear reactor, and analyze the environmental effects from their implementation at the base. AECOM also provided full public involvement support, including meeting facilitation, scoping, development of talking points and visuals for the Air Force, preparation of Notices and responses to comments, preparation of the Record of Decision, and development of the administrative record. Project was downgraded to two separate EAs that focused on solar PV technologies; one EA for the development of a Solar PV Extended Use Lease Array capable of generating up to 10 MW and a second EA for development of solar PV canopies over multiple parking lots and roof-mounted thin film solar PV panels on selected buildings for distributed energy to base facilities.





## Hawaii

Hawaii has one office located in the state with environmental and engineering professionals. Our local team is experienced in power projects, including renewable energy and the technical services necessary for all phases of development. Relevant projects include:

#### ENVIRONMENTAL IMPACT STATEMENT FOR HAWAII INTERISLAND RENEWABLE ENERGY PROGRAM, STATE OF HAWAII, DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT AND

TOURISM (DBEDT). In 2010, the State of Hawaii awarded a contract to AECOM to prepare an EIS for a proposed undersea interisland cable system and wind program as part of its Hawaii Interisland Renewable Energy Program. The components to be analyzed as part of the EIS project include the potential development of wind farms on three islands in Maui County, the installation of undersea cables between these islands and connections to the island of Oahu, and utility infrastructure upgrades that would allow for the integration of a renewable energy to the electrical grid. Led by our AECOM-Honolulu office, with support from AECOM expertise around the world, AECOM developed the Description of the Proposed Action and Alternatives, prepared the Notice of Intent, held public scoping meetings on several islands, and prepared the draft EIS. A programmatic environmental impact statement (PEIS) analyzing the revised program was developed and completed in 2012 with the United States Department of Energy as the lead agency preparing the document.

The AECOM summary and background document, which is being used to support the PEIS, assembled the research completed to date, described the existing project areas, disclosed analysis methodologies, outlined potential impacts to each project area, and formulated recommendations for construction, operation, maintenance, and decommissioning of a multi-island undersea cable network and converter stations at the various project islands.

#### ENGINEERING AND ENVIRONMENTAL SERVICES FOR KAHEAWA WIND POWER AND FIRST WIND KAHUKU PROJECTS, FIRST WIND ENERGY, LLC.

AECOM provided civil engineering, environmental permitting, and land surveying services to First Wind Energy, LLC toward the development of two wind power sites, representing the first-ever, large-scale facilities for wind-generated power in the state of Hawaii. The site on the island of Maui. Kaheawa Wind Power, is located on 522.4 acres atop a West Maui Mountains ridgeline at Ukumehame, Mā'alaea. The second site, First Wind Kahuku, is located on 577.8 north shore acres on the island of Oahu at Ko'olauloa, Kahuku. For Phase I of the Maui site, AECOM completed a National Pollutant **Discharge Elimination System (NPDES) permit** application Notice of Intent Form C for the discharge of stormwater associated with construction activities and also provided a culvert design for the facility. For Phase II of the Maui site, AECOM developed conceptual site plans, completed micro-siting of proposed structures, and estimated earthwork and disturbed area quantities in support of environmental and permitting documents. For the new wind turbine facility at Kahuku, Oahu, AECOM engineers were awarded a design contract to develop plans, specifications, civil reports, and permits, including an erosion control plan for access roads, turbine pads, and baseyard; a site and grading plan for the operations facility; and drainage and wastewater details.





## Illinois

Illinois has two offices located across the state with over environmental and engineering professionals experienced in power projects, including renewable energy and the technical services necessary for all phases of development. Our Midwest offices, including offices in Ohio and Missouri, work collaboratively in the region to support our renewable energy projects. Relevant projects include:

#### **BIG RIVER SOLAR POWER, RANGER POWER.**

The Big River Solar Project is a 149 MW AC solar electric generation facility in White County, Illinois. The project will be located on approximately 1,200 acres of undeveloped land within an approximate 3.000-acre footprint, AECOM's services include: agency consultations; preliminary civil engineering, including project life span estimation, a decommissioning plan, and a materials plan; project mapping; natural communities and Waters of the United States surveys; a Phase I ESA; analysis of local community issues, including review of agricultural soils, local zoning issues, road use and safety, and land use plans; an erosion control and stormwater management plan; a cultural and historic resources study; a sound study; and development and submission of all permits.

#### SOLAR SITE PERMITTING MATRIX – CONFIDENTIAL CLIENT. AAECOM recently

developed a permitting and approvals matrix for each of 22 sites in north and central Illinois. The work included desktop analyses of aerial photographs and agency websites, including review of vegetation to identify important habitat areas for species of concern, land uses for zoning, zoning permits, building permits, solar ordinances when applicable, wetlands/jurisdictional waters, cultural resources, floodplains, T&E species, visual assessment requirements, NPDES permits, and related permitting. **CIAs.** AECOM has provided multiple CIAs across the state, including site characterization studies to identify potential fatal flaws and/or permitting requirements.

#### DRESSOR PLAINS AND PRAIRIE STATE SOLAR PROJECTS - RANGER POWER, AECOM assisted

Ranger Power with the successful permitting of the Dressor Plains and Prairie State Solar Projects; both are 99 MW AC solar electric generation facilities in Fayette County and Perry County, Illinois, respectively. Each project will be located on approximately 700 acres of undeveloped land within an approximate 1,000-acre footprint. AECOM provided agency consultations; preliminary civil engineering, including a project life span estimation, a decommissioning plan, and a materials plan; project mapping; natural communities and Waters of the United States surveys; a Phase I ESA; analysis of local community issues, including review of agricultural soils, local zoning issues, road use and safety, and land use plans; an erosion control and stormwater management plan; a cultural and historic resources study; a sound study; development and submission of all permits; and development of an EA.





## Indiana

Indiana has one office in the state with environmental and engineering professionals experienced in power projects, including renewable energy and the technical services necessary for all phases of development. Our Midwest offices, including offices in Ohio, Illinois, and Missouri, work collaboratively in the region to support our renewable energy projects. Relevant projects include:

#### **SPEEDWAY SOLAR PROJECT - RANGER POWER.**

The Speedway Solar Project is a 199 MW AC solar electric generation facility in Shelby County, Indiana. The project will be located on approximately 1,800 acres of agricultural land. AECOM provided both engineering and environmental services in support of the permitting of this utility-scale solar project through the Shelby County Zoning Board. Specific services included agency consultations; preliminary civil engineering siting analysis, including project lifespan estimation, a decommissioning plan, and a materials plan; project mapping; natural communities and Waters of United States surveys; a Phase I ESA; review of local community issues, such as agricultural soils, local zoning issues, road use and safety, and land use plans; an erosion control and stormwater management plan; cultural and historic resources; a sound study and visual impact assessment; and development and submission of all permits.

**CIAs.** AECOM has provided multiple CIAs across the state, including site characterization studies to identify potential fatal flaws and/or permitting requirements.



#### AECOM

## Louisiana

Louisiana has two offices located across the state with environmental and engineering professionals experienced in engineering design, plan reviews and environment compliance inspections (stormwater), project siting, IAP and hazardous materials, including environmental health and safety, environmental site assessments and remediation (HazMat). AECOM has supported dozens of renewable energy projects in the state, including solar and wind. Relevant projects include:

**CONFIDENTIAL CLIENT(S).** AECOM has provided dozens of CIAs across the state, including site characterization studies to identify potential fatal flaws and/or permitting requirements.



#### AECOM

## Maryland

Maryland has four offices located across the state with environmental and engineering professionals experienced in engineering design, plan reviews and environment compliance inspections (stormwater), project siting, IAP, and hazardous materials, including environmental health and safety, environmental site assessments and remediation (HazMat). AECOM has supported dozens of renewable energy projects in the state, including solar and wind. Relevant projects include:

#### WESTERN BRANCH WWTP SOLAR PV PROJECT.

AECOM supported the permitting of a solar PV system at the wastewater treatment plant facility in Marlboro Maryland, including project permit applications and conditional approval forms, biological resource coordination, cultural resource coordination, and project plans.





## Minnesota

Minnesota has one office located in the state with environmental and engineering professionals experienced in power projects, including renewable energy and the technical services necessary for all phases of development. Our Midwest offices work collaboratively in the region to support our renewable energy projects, including:

#### ENEL GREEN POWER, CONSTRUCTION OVERSIGHT FOR 150 MW OF SOLAR ASSETS.

Enel Green Power's Aurora Solar Project is a US\$290 million, multi-site effort to bring 150 MW of renewable power to mostly rural Minnesota. As one of the largest multi- site distributed solar projects in North America, the project serves more than 17,000 customers from 16 small-scale solar sites (920 acres total) that range in size from 5 to 15 MW. AECOM was responsible for construction oversight monitoring using our local field personnel and remote support staff during the final stages of construction. Duties included providing oversight of solar PV panels, inverters, and other electrical and communications equipment, as well as overseeing use of heavy construction equipment for interior road construction and landscaping. The work involved up to three full-time, on-site construction personnel to oversee the work being done by the client's subcontractors at each site. Work performed included:

- On-call construction oversight and monitoring services at 16 solar sites, using qualified staff local to the project.
- Daily reporting, which included verification of contractor hours, photos of site conditions, and reports on project safety, to the client's project management team.





## **New Hampshire**

New Hampshire has one office located in the state with environmental and engineering professionals. AECOM has supported energy storage assessments in the state, and we have the services to support such development with technical specialists in state and renewable energy expertise nationally.

#### MULTINATIONAL RENEWABLE ENERGY COMPANY.

For multiple sites across the northeast, including Massachusetts and New Hampshire, AECOM led the client through the preliminary permitting and site design process, following state and local site development and stormwater regulations, The AECOM team worked with the client and an external electrical engineering firm to develop BESS site layouts that satisfied the client's equipment and accessibility needs as well as all state and local regulations regarding site development and stormwater design. This included natural and cultural resource assessment and delineation, noise surveys and modeling, line-of-sight renderings, site grading and development of stormwater structures to handle both water quality and quantity. The grading plans and stormwater management designs were used by the client to inform the development of the site layouts and to obtain the permits necessary to move forward with the site developments.





## **New Jersey**

New Jersey has three offices located across the state with environmental and engineering professionals experienced in power projects, including renewable energy and the technical services necessary for all phases of development. AECOM has supported dozens of renewable energy projects in the state, including solar and wind. Relevant projects include:

#### PANDA POWER FUNDS, ENVIRONMENTAL PERMITTING

**OF SOLAR PROJECT.** AECOM developed the EA for a nominal 18 MW PV solar farm, located in Salem County, New Jersey ("Pilesgrove Solar"). The project is located on a 134-acre site that had been used as agricultural cropland. AECOM's scope of work included a permit plan, the Township EIS, environmental due diligence (Phase 1 ESA), a wetlands Letter of Interpretation (LOI) extension (field work and application to the New Jersey Department of Environmental Protection [NJDEP]), expert witness support during Township Planning Board Meetings, and preliminary assessments related to the New Jersey Flood Hazard Area Control Act and Stormwater Management Rules. The project is currently in operation.

#### CRITICAL ISSUES ANALYSIS AND PHASE 1 DUE DILIGENCE EFFORT FOR RENEWABLE ENERGY SYSTEMS AMERICAS, INC. FOR A 62-ACRE SITE IN WEST DEPTFORD, NEW JERSEY. AECOM completed a

desktop assessment to identify critical issues for siting a solar project adjacent to a large tidal waterway in New Jersey, detailing the environmental resources and sensitive environmental receptors within the limits of identified properties and the potential project area. The assessment detailed varying levels of Federal, state and local data sets summarized in a report with supporting mapping and a permit matrix table. AECOM also performed a Phase I ESA of the subject property in conformance with the scope and limitations of the ASTM International Standard Practice for Environmental Site Assessments (Standard E 1527-13) and the United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations Part 312 Standards and Practices for All Appropriate Inquiries (AAI).





## **New Mexico**

AECOM has two offices in New Mexico with environmental and engineering professionals experienced in renewable energy power projects, including solar, and the technical services necessary for all phases of development. AECOM has supported solar, green hydrogen, and transmission line projects in the state. Relevant projects include:

**CONFIDENTIAL CLIENT(S).** AECOM has provided multiple CIAs across the state, including site characterization studies to identify potential fatal flaws and/or permitting requirements. AECOM has also conducted wetland delineations, special-status species surveys, and cultural resources surveys and provided permitting support, including application meetings with USACE.

**CIAs.** AECOM has provided CIAs and site characterization studies to identify potential fatal flaws and/or permitting requirements for solar and green hydrogen projects on five sites in New Mexico.

Clean Line Wind. AECOM Technical Services, Inc. (AECOM) provided services to assist Clean Line Energy Partners LLC with the development of a wind farm on approximately 134,000 acres of ranchland on State Trust land and privately owned land south of the Village of Corona in northern Lincoln County, New Mexico. AECOM's services included project management, resources data collection, constraints mapping, impact analyses, environmental reporting, and agency scoping. The project had the capacity to generate 1,140 MW of electrical energy by using GE 2.5 MW turbines mounted on towers with a hub height of approximately 308 feet. Other components of the project included electrical collection lines, one or more substations, an O&M building, and improved or new roads for access.



#### AECOM

## Nevada

AECOM's Nevada office is located in Las Vegas and has environmental and engineering professionals experienced in renewable energy projects and the technical services necessary for all phases of a project's development. AECOM has supported multiple siting studies in support of renewable energy projects in the state. Relevant projects include:

#### SOLAR SITE PERMITTING MATRIX -

**CONFIDENTIAL CLIENT.** AECOM recently developed a permitting and approvals matrix for various sites in Nevada. The work included desktop analyses of aerial photographs and agency websites, including review of vegetation to identify important habitat areas for species of concern, land uses for zoning, zoning permits, building permits, solar ordinances when applicable, wetlands/ jurisdictional waters, cultural resources, floodplains, T&E species, visual assessment requirements, NPDES permits, and related permitting.

**CONFIDENTIAL CLIENT(S).** AECOM has prepared siting studies for multiple sites across the state, including hydrology and habitat assessments and site characterization studies to identify potential fatal flaws and/or permitting requirements for solar development and green hydrogen projects.





## North Carolina

North Carolina has three offices located across the state with environmental and engineering professionals experienced in engineering design, plan reviews and environment compliance inspections (stormwater), project siting, IAP and hazardous materials, including environmental health and safety, ESAs and remediation (HazMat). AECOM has supported dozens of renewable energy projects in the state, including solar and wind. Relevant projects include:

**CONFIDENTIAL CLIENT(S).** AECOM has worked on 15 sites across the state, performing E&S stormwater plan reviews, Stormwater Independent Engineer inspections, site layout and design, environmental compliance inspections, cultural and natural resources surveys, and CIAs.

**CONFIDENTIAL CLIENT, SOLAR FARM SITING, NORTH CAROLINA.** AECOM conducted a CIA and site characterization study for a large solar site in Onslow County, North Carolina. This site included the potential for Federal and state listed species and their associated sensitive habitat. AECOM conducted a field assessment of special-status species and jurisdictional features.





## North Dakota

AECOM's North Dakota office is located in Bismarck and has experienced environmental and engineering professionals who work seamlessly with staff and offices in adjoining states on a variety of renewable power projects. They provide the technical services necessary for all phases of project development. Relevant projects include:

### EMMONS-LOGAN WIND ENERGY CENTER AND TRANSMISSION LINE, NEXTERA. As part of

the North Dakota Public Services Commission (PSC) permitting process, AECOM successfully supported NextEra's application for a certificate of site compatibility for a 298 MW wind energy center and a 6.5 mile-long 230 kV overhead transmission line. From project development in 2017-2018, to construction in 2019, AECOM's cultural resources team provided archaeology, architectural history, and Tribal survey support, and coordinated with the North Dakota State Historic Preservation Office (SHPO). AECOM also coordinated with NextEra's construction contractors and participating tribes for construction monitoring and cultural resource and Tribal surveys to support project activities during construction.

#### ENVIRONMENTAL SERVICES FOR 150 MW FOXTAIL WIND ENERGY CENTER, DICKEY COUNTY, NORTH DAKOTA. AECOM supplied

environmental permitting services, prepared the North Dakota PSC Application and provided expert witness testimony for the shadow flicker and acoustic analyses at the PSC hearing for this 75 turbine, 150 MW facility. Construction began in 2018 on the project, which sits on 20,000 acres in Southeast North Dakota. Our work included wetland delineations, cultural resources surveys, architectural history surveys, GIS, acoustic modeling and assessment, and shadow flicker analysis for siting turbines and infrastructure. We also participated in tribal outreach efforts throughout the project, including GIS assistance for completing cultural heritage forms, as well as meetings and site visits with various tribal stakeholders. For the North Dakota SHPO, we prepared visual simulations to assess visual impacts to the nearby Whitestone Hill Battlefield State Historic Site. Following PSC approval, AECOM prepared a noxious weed plan for construction and provided assistance with reviewing construction plans. We also completed cultural resources surveys, wetland delineations, land use surveys, raptor nest surveys, and T&E species analysis to support a Categorical Exclusion for an associated transmission line upgrade.





## Oklahoma

AECOM's Tulsa office and offices in surrounding states, including Texas, provide support for renewable energy projects in Oklahoma. Relevant projects include:

**RES GLASS SANDS – CIA AND BIRD/BAT MONITORING.** AECOM was retained by RES to complete a CIA, including almost 3 years of eagle surveys, 1 year of bat acoustic monitoring, 1.5 years of avian surveys, and eagle nest surveys for a potential wind farm development in Murray County, Oklahoma. The tasks began in December 2016 and ended in September 2019.

**CIAS.** AECOM conducted desktop research to guickly assess potential fatal flaws on multiple sites that would affect their development into solar power generating sites. The desktop analyses included the following: review of vegetation to identify important habitat areas for species of concern; land uses for zoning, ownership and 1-mile buffer for constraints; species of concern in the area; wetlands/ jurisdictional waters; geotechnical analysis, mapping; environmental database report with wells data; cultural resources, including assessing historical resources such as native American and other historic trails; solar glare hazard analysis; permitting with overall risk assessment of successful development; local ordinances to address zoning issues/special use provisions; and permit risk. Delivery of all data was in GIS shapefile format. When requested, AECOM supplemented the desktop analyses with site reconnaissance to assess field conditions and the accuracy of desktop information.

## WESTERN FARMERS ELECTRIC COOPERATIVE (WFEC) SOLAR PROJECT OWNER'S ENGINEERING.

AECOM provided Owner's Engineering for WFEC utility solar projects for 18 sites in Oklahoma. AECOM's services included reviews of the engineering and design, reviews of commissioning and testing procedures, and reviews of performance tests for all sites.





## Pennsylvania

Pennsylvania has six offices located across the state with environmental and engineering professionals experienced in power projects, including renewable energy and the technical services necessary for all phases of development. Relevant projects include:

**CONFIDENTIAL CLIENT.** AECOM has provided dozens of CIAs across the state, including site characterization studies to identify potential fatal flaws and/or permitting requirements.

**CONFIDENTIAL CLIENT.** AECOM is working with a confidential client to conduct a CIA and regulatory agency consultations for siting a utility-scale solar project on approximately 2,800 acres of land within a historic oil and gas field in northwestern Pennsylvania. AECOM has facilitated and led meetings with the Pennsylvania Department of Environmental Protection (PADEP) Bureau of Oil and Gas to discuss the processes and procedures necessary to pursue redevelopment of the former oil and gas field into a solar power project. Desktop reviews of sensitive environmental and cultural resources have been conducted, and agency consultation is ongoing.

LIBERTY POWER. AECOM completed a

Transmission Line Siting Analysis and supported permitting of the chosen alignment for the Liberty Power Broad Mountain Wind Farm 69 kV Tap Line project, which includes a new, approximately 2.7- mile 69 kV transmission line between the new wind farm substation and the existing PPL Hauto-Siegfried transmission line or Hauto Substation located in Nesquehoning Borough, Carbon County, Pennsylvania. Permitting is through the PADEP Chapter 105 (Water Obstructions and Encroachments Permit), PADEP Chapter 102 (Erosion and Sediment Control), and USACE Section 404 permit processes. In addition, coordination with Reading Blue Mountain and Northern Railroad is required to span the active freight railroad line. The project, which began in 2019, is currently on hold; AECOM also provided technical support for public open houses and agency meetings.





## South Carolina

South Carolina has three offices located across the state with environmental and engineering professionals experienced in engineering design, plan reviews and environment compliance inspections (stormwater), project siting, IAP and hazardous materials, including environmental health and safety, environmental site assessments and remediation (HazMat). AECOM has supported dozens of renewable energy projects in the state, including solar and wind. Relevant projects include:

**CONFIDENTIAL CLIENT(S).** AECOM has worked on 50 sites, performing E&S stormwater plan reviews, Stormwater Independent Engineer inspections, site layout and design, and environmental compliance inspections.

**CONFIDENTIAL CLIENT(S).** AECOM has provided multiple CIAs across the state, including site characterization studies to identify potential fatal flaws and/or permitting requirements. AECOM has also conducted wetland delineations, special-status species surveys, and cultural resources surveys, and provided permitting support, including application meetings with USACE.





## Texas

Texas has seven offices located across the state with environmental and engineering professionals experienced in power projects, including renewable energy and the technical services necessary for all phases of development. Relevant projects include:

#### **CONFIDENTIAL CLIENT. LUFKIN COUNTY.**

AECOM prepared a CIA and subsequent wetland delineations and cultural studies to delineate site constraints and development requirements.

#### ENERVERSE, LLC VARIOUS SOUTH TEXAS WIND

**FARM PROJECTS.** AECOM provided environmental resources and due diligence support for eight wind farms throughout South Texas. Our work included avian use surveys, bat acoustic monitoring, raptor nest surveys, eagle use surveys, micro-siting, constraints mapping, biological and cultural resources evaluations, USACE assessments, and Phase 1 ESAs. AECOM also completed Bird and Bat Conservation Strategies or Wildlife Conservation Strategy documents for some of the projects.

CIAs. AECOM has provided dozens of CIAs across the state, including site characterization studies to identify potential fatal flaws and/or permitting requirements.

#### ENVIRONMENTAL, CULTURAL AND PERMITTING FOR 450 MW WIND PARK. AECOM (as URS)

provided environmental and cultural resources support for this 226-turbine wind park in South Texas. Our work included avian use surveys, bat activity surveys, biological and cultural resources evaluations, USACE assessments, and Phase 1 ESAs.

#### 300 MW WIND PROJECT SOUTHERN TEXAS.

AECOM provided cultural and wetlands surveys to facilitate project micro-siting and provided ongoing support during construction to site project features to avoid resource impacts to both federally jurisdictional waters and cultural resources.

WILD CAT WIND FARM CONSTRUCTION COMPLIANCE, EDPR, TEXAS. AECOM assisted the client in developing a Site Compliance Manual, a communications plan, monthly inspections forms, and an Unanticipated Archeological Discovery Plan for the Wild Cat Wind Farm project. Once plans are finalized an AECOM Environmental Scientist participates in monthly site compliance inspections at the Wild Cat Wind Farm, located in Lindsay, Texas. The inspections include a review of the Stormwater Pollution Prevention Plan, SPCC, waste manifests, and chemical storage practices. In addition, AECOM completes a monthly inspection of construction activities to ensure compliance with Federal, State, local, and EDP Renewables (EDPR) rules/regulations, and correct implementation and good operation of best management practices. AECOM prepares a deliverable documenting THE findings with photographic support each month and follows up with facility action items to ensure compliance is reestablished in a timely manner. Once the construction and reclamation activities are complete, AECOM prepares a final compliance report documenting all findings throughout the construction period.





## Virginia

Virginia has seven offices located across the state with environmental and engineering professionals experienced in engineering design, plan reviews and environment compliance inspections (stormwater), project siting, IAP, and hazardous materials, including environmental health and safety, environmental site assessments and remediation (HazMat). AECOM has supported dozens of renewable energy projects in the state, including solar and wind. Relevant projects include:

**CONFIDENTIAL CLIENT(S).** AECOM has worked on 34 sites, performing E&S stormwater plan reviews, Stormwater Independent Engineer inspections, site layout and design, environmental compliance inspections, cultural and natural resources surveys, and CIAs across the state.

#### **CONFIDENTIAL CLIENT(S), CRITICAL ISSUES**

**ASSESSMENTS.** AECOM has provided multiple CIAs across the state in addition to site characterization studies for proposed solar sites. AECOM has also prepared wetland delineations, special-status species surveys, Phase 1 ESAs, and cultural studies to delineate site constraints and development requirements.



## Washington

Washington has one office located in the state with environmental and engineering professionals. Our local team is experienced in power projects, including renewable energy and the technical services necessary for all phases of development. Relevant projects include:

#### CRITICAL ISSUES ANALYSIS AND FIELD RECONNAISSANCE SURVEYS, CONFIDENTIAL SOLAR ENERGY PROJECT. AECOM recently

completed a CIA for a large-scale solar PV facility with BESS in Yakima County, Washington. The analysis area for the project consisted of two parcels comprising more than 2,200 acres. The CIA provided information on the constraints, requirements, and opportunities related to land use; vegetation; wildlife, sensitive species and habitats; wetlands, waters, and floodplains; soils and geologic resources; cultural resources; and public services and infrastructure. The CIA included a detailed description of the permitting pathways for developing a solar energy and storage project at the proposed location. Field visits were then conducted to identify and map water features (e.g., ephemeral streams); potential wetland areas; plant and wildlife observations; noxious weeds; plant communities and wildlife habitat types; and the potential presence of special-status plant and wildlife species that may require specific protocollevel surveys.

#### PRELIMINARY FEDERAL REVIEW, CONFIDENTIAL SOLAR ENERGY PROJECT.

AECOM recently completed a desktop review of federally managed resources and considerations associated with the development of a solar PV facility in Grant County, Washington. The study area consisted of an approximate 5,200-acre area, which includes multiple landowners as well as Federally owned land. The work product summarized applicable guidance, regulations, and planning documents that pertain to development of non-hydro renewable energy projects on Federal land, presented findings regarding the potential presence of federally managed resources and management standards and guidelines applicable to the study area, and identified a range of plant and wildlife species documented as present or potentially present within the study area.

#### PERMITTING ASSESSMENTS AND WIND ENERGY FACILITY PERMIT ASSESSMENTS,

**PACIFICORP.** AECOM was contracted by PacifiCorp to conduct permitting assessments; state and local permitting documentation; and cultural, wetland, and land surveys at their Goodnoe Hills and Marengo I and II wind energy facilities in southeastern Washington. Permitting assessments have also been completed for PacifiCorp's Leaning Juniper wind energy facility in northeastern Oregon and Foot Creek Rim I. McFadden Ridge II. Seven Mile Hill, Dunlap, and Glenrock/Rolling Hills wind energy facilities in Wyoming. The permitting assessments were conducted for the expansion or repowering of PacifiCorp's existing wind energy facilities. For the assessments, AECOM identified the Federal, state, and local permitting requirements applicable to the proposed project and reviewed prior studies and project approvals to determine necessary permitting considerations and constraints. AECOM identified potential costs associated with the permitting effort and developed a schedule for obtaining the required permits over the next 3 years. For the Marengo I and II Project in Columbia County, AECOM also completed permit documentation for the repower project, including the preparation of a SEPA Checklist and three CUP applications, as well as agency coordination. To support the permitting documentation, AECOM conducted resource studies consisting of a wetland reconnaissance survey and a cultural resources assessment of areas not previously reviewed by the project.

#### **APPLICATION FOR SITE CERTIFICATION,**

WHISTLING RIDGE WIND. The Whistling Ridge Energy Project was proposed on an approximately 1,152-acre site in south-central Washington, approximately 7 miles northwest of the city of White Salmon, in unincorporated Skamania County, Washington. The project site was located on commercial forestland on Saddleback Mountain. outside of the Columbia River Gorge National Scenic Area. The project was proposed to consist of up to 50 1.2 to 2.5 MW wind turbines with a maximum generating capacity of 75 MW. AECOM prepared the Application for Site Certification that was submitted to the Washington Energy Facility Site Evaluation Council. AECOM also provided technical studies for geology, water, noise, plants, land use, recreation, cultural and historical resources, and traffic and transportation, and visual assessments of the potential turbine locations. In addition, AECOM provided expert witness testimony during project hearings held by the State of Washington Energy Facility Site Evaluation Council.



## Wisconsin

AECOM has five offices located in Wisconsin with environmental and engineering professionals who provide support for renewable energy projects, including solar. Relevant projects include:

**POINT BEACH SOLAR, MANITOWOC COUNTY, WISCONSIN.** AECOM is providing environmental compliance monitoring support to NEER for their Point Beach Solar Project in the town of Two Creeks, Manitowoc County, Wisconsin. The 1,100acre project site consists of a 100 MW solar PV project and associated electrical substations and transmission line.

Major components of the project include solar modules, inverters, collection lines, an approximate 0.9-mile-long overhead generation-tie line, a 138 kV collector substation, and a switchyard at the point of grid interconnection.

AECOM is providing full time environmental compliance monitoring during the approximately 18-month construction period for the project. The environmental compliance monitor documents compliance with environmental permit conditions and helps maintain markings for wetlands and waterways for avoidance during construction of the project. AECOM's environmental compliance monitor also reviews site conditions for compliance with regulations and permit conditions during construction work. Daily monitoring includes documenting installation and maintenance of erosion control measures, ground disturbing activities, and environmental incidents occurring in conjunction with construction operations (e.g., spill response, storm event). In addition to daily communications with the on-site project team, AECOM prepares weekly environmental monitoring reports summarizing compliance with permits and identifying potential issues or possible violations.

**BADGER STATE SOLAR PROJECT, JEFFERSON COUNTY, WISCONSIN.** AECOM is supporting Ranger Power and the United States Department of Agriculture Rural Utility Service (RUS) with thirdparty (NEPA) compliance for the Badger State Solar Project in Jefferson County. This solar PV project will be located on predominately agricultural land, and the applicant has requested long-term financing from RUS for construction of the proposed project through a RUS-guaranteed Federal financing bank loan, thereby making the project a Federal action subject to review under NEPA. AECOM is preparing the EIS for the project.





## Wyoming

AECOM's renewables work in Wyoming is conducted by two offices in neighboring states. Our Fort Collins, Colorado, office is approximately 45 minutes south of Cheyenne, Wyoming, where many Federal and state agencies have main offices. The Fort Collins office works closely with our Salt Lake City, Utah, office, which is approximately 30 minutes from the southwest corner of Wyoming. Relevant projects include:

#### PACIFICORP, WYOMING WIND ENERGY REPOWERING PROJECT PERMIT ASSESSMENTS, WYOMING. AECOM was

contracted by PacifiCorp to conduct assessments of the Federal, state, and local permits required to repower several existing wind energy facilities in Wyoming, to coordinate with permitting agencies, and to prepare the necessary permits. The projects also include working with the Federal Aviation Administration Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) group to update the aeronautical studies for these facilities to reflect the increase in turbine height associated with the proposed repowering effort.

#### BANJO SOLAR PROJECT. POTENTIA RENEWABLES INC. MOFFAT COUNTY, COLORADO, AND SWEETWATER COUNTY,

**WYOMING.** AECOM conducted environmental due diligence services for the proposed Banjo Solar Project located in Colorado and Wyoming. The project area consisted of an approximately 1,266-acre property in Moffat County, Colorado, and an approximately 635-acre property in Sweetwater County, Wyoming. AECOM provided a review of publicly available environmental data for the site and advised Potentia Renewables Inc. on siting and permitting considerations as part of their due

diligence efforts for the project. AECOM prepared a permit matrix to identify applicable local, state and Federal permits potentially required for the project.

**ROUNDHOUSE WIND FARM, WYOMING.** The Roundhouse Renewable Energy Wind Farm project consists of approximately 24,720 acres in Laramie County, Wyoming, near Cheyenne. AECOM has been providing environmental consulting services for this wind farm site since September 2017.

Completed tasks include avian studies and habitat assessment (including surface waters) and raptor and eagle ground nest surveys and eagle nest aerial surveys from helicopters. Other project activities included long-billed curlew, prairie dog and burrowing owl surveys. AECOM also collected incidental information on other species during the surveys, including amphibians and reptiles, prairie dog colonies and other mammals (e.g., big game). Biological support through 2019 included continuing avian studies, swift fox camera trap and den surveys, mountain plover surveys, RLA and micrositing support.

In addition, AECOM is providing tribal outreach services for the project. AECOM has been contracted to coordinate with Tribal Historic Preservation Officers and Traditional Cultural Surveyors (TCSs) from interested Native American Tribes, and completed a field survey to identify Traditional Cultural Properties within the construction easement with TCSs. AECOM will assist the TCSs with technical and logistical support to record Traditional Cultural Properties and complete site forms, reporting, and GIS services so Traditional Cultural Properties can be avoided during siting and construction of the project.





## **PJM Territory**

The PJM Territory has 50 main AECOM offices located across the United States. We have environmental and engineering professionals with experience in engineering design, plan reviews and environment compliance inspections (stormwater), project siting, IAP, and hazardous materials, including environmental health and safety, ESAs, and remediation (HazMat). The map provides a breakdown per state office. AECOM has supported dozens of renewable energy projects in the PJM Territory, including solar and wind.

In addition to the work mentioned previously, the PJM Territory's 50 main offices have more than 1,000 environmental and engineering professionals who are experienced in power projects, including renewable energy and the technical services necessary for all phases of development. Our offices work collaboratively in the region to support our renewable energy projects.

AECOM has worked on hundreds of power projects across the PJM Territory, including renewable energy developments and transmission interconnections. Relevant projects include:

#### WESTERN BRANCH WWTP SOLAR PV PROJECT.

AECOM supported the permitting of a solar PV system at the wastewater treatment plant facility in Marlboro, Maryland, including project permit applications and conditional approval forms, biological resource coordination, cultural resource coordination, and project plans.

#### PANDA POWER FUNDS, ENVIRONMENTAL PERMITTING OF SOLAR PROJECT. AECOM

developed the environmental assessment for a nominal 18 MW solar PV farm located in Salem County, New Jersey ("Pilesgrove Solar"). The project is located on a 134-acre site that had been used as agricultural cropland. AECOM's scope of work included a permit plan, the Township EIS, environmental due diligence (Phase 1 ESA), wetlands LOI extension (field work and application to NJDEP), expert witness support during Township Planning Board Meetings, and preliminary assessments related to the New Jersey Flood Hazard Area Control Act and Stormwater Management Rules. The project is currently in operation.

#### CRITICAL ISSUES ANALYSIS AND PHASE 1 DUE DILIGENCE EFFORT FOR RENEWABLE ENERGY SYSTEMS AMERICAS, INC. FOR A 62-ACRE SITE IN WEST DEPTFORD, NEW JERSEY.

AECOM completed a desktop assessment to identify critical issues for siting a solar project adjacent to a large tidal waterway in New Jersey, detailing the environmental resources and sensitive environmental receptors within the limits of identified properties and the potential project area. Assessment detailed varying levels of Federal, state, and local data sets summarized in a report with supporting mapping and a permit matrix table. AECOM also performed a Phase I ESA of the Subject Property in conformance with the scope and limitations of the ASTM International Standard Practice for Environmental Site Assessments (Standard E 1527-13) and the USEPA 40 CFR Part 312 Standards and Practices for AAI.

**CONFIDENTIAL CLIENTS.** AECOM has performed E&S stormwater plan reviews, Stormwater Independent Engineer inspections, site layout and design, environmental compliance inspections, cultural and natural resources surveys, and CIAs on more than 100 sites located across the state.



PJM Territory Delaware Illinois Indiana Ohio Kentucky Maryland Michigan New Jersey North Carolina Pennsylvania Tennessee Virginia West Virginia

#### **MORE INFORMATION**

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# **ABOUT AECOM** 14 ------

AECOM (NYSE: ACM) is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy, and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical expertise and innovation, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a Fortune 500 firm and its Professional Services business had revenue of \$13.3 billion in fiscal year 2021.

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