WIND & SOLAR

RENEWABLE ENERGY
IMAGINE IT.
DELIVERED.

87,000 employees globally
47,000 employees in North America
300 offices in North America
7 continents
$18.2B revenue in FY17
AECOM designs, builds, finances, operates, and manages projects and programs that unlock opportunities, protect our environment and improve people’s lives.

As an integrated global network, AECOM works with clients, communities, and colleagues to develop and implement innovative and cost-effective solutions to the world’s most complex challenges.

AECOM provides the full range of planning, permitting, engineering, environmental and design services for all types of traditional and renewable energy projects across the U.S. and Canada.

Meeting these challenges requires a fully integrated engineering and construction services organization with the capabilities to support the entire project in a holistic manner – from inception through construction, operations and maintenance, to decommissioning and closure.

2018 ENR
Engineering News-Record’s 2018 Top 500 Design Firm Survey again recognizes AECOM as an industry leader in many important categories.

#1 Environment*
#1 Program Management*
#2 Design Firm
#2 Green Building Design*
#3 Power
#3 Water
#3 Green Building Contractor*

* 2017, rankings not yet published for 2018
AECOM supports energy projects across North America with the full range of planning, permitting, engineering, environmental and design services.
With experience that spans more than 100 years and 150 countries, AECOM has conceived, planned, and built energy projects of every type and size.

AECOM’s combination of global experience and integrated technical capabilities deliver strategic solutions that improve and modernize infrastructure, enhance sustainability and resiliency, and benefit the community.

AECOM has engineered and/or constructed more than 280,000 MW of electricity worldwide — equivalent to approximately one fourth of the generating power in the U.S. today.

We provide a single source for multidisciplinary engineering, environmental, and management services. From international and domestic market analysis, to siting and permitting, through final project development and execution, we develop, design, and construct projects that enhance infrastructure, reduce energy and water consumption, and produce power from traditional and renewable sources.

Our understanding of the big picture — such as the interconnection between generation, transmission, storage, grid improvements, conservation, and efficiency — allows us to deliver a holistic energy strategy tailored specifically to our clients’ needs.

AECOM brings to our clients tailored strategic services that include:

• Technology neutral
• World-class innovation
• Proven tools & processes
• Current industry & regulatory knowledge
• Global technical practice network
• Deliver projects on schedule & on budget

Full renewables capabilities:

• Biomass & geothermal
• Solar
• Wind
• Hydroelectric generation

AECOM has helped deliver more than 50 GW of renewable power globally.
AECOM has supported clean energy projects in almost every US state and Canadian province and territory, including more than 275 solar and wind projects since 2015.

Global experience, local expertise

As a strategic client partner, we provide project planning, design, and permitting support to successfully site project and obtain necessary development approvals.

- Energy analysis and planning
- Siting/due diligence
- Environmental permitting/compliance
- Public outreach
- Conceptual design
- Detailed design
- Engineering
- Procurement
- Project management

As program/construction manager, we implement proven project controls to successfully manage efforts large and small to keep projects on schedule and budget.

- Project scheduling
- Estimating
- Cost control
- Document control
- Risk management
- Compliance management
- Forecasting
- Asset management
- Owner’s engineering services
- Construction management

Some of our clients include:

Long Island Power Authority • Public Service Electric & Gas Company • Noble Wind Farms • Pattern Energy • Hydro-Québec • New York Power Authority • Los Angeles Department of Water and Power • BC Hydro • National Grid • Florida Power and Light (NextEra) • SaskPower • Southern Power Company • U.S. Department of Energy • U.S. Army Corps of Engineers • all branches of the U.S. military and many other similar agencies, firms, and municipalities.
A customized approach to project delivery, with comprehensive support from idea to operation.

Understanding each client’s unique conditions and project requirements is central to identifying the most appropriate approach for project delivery.

Proven experience with alternative delivery to fit owner’s objectives, timelines and constraints:

- Public-private partnerships (P3)
- Design-Build
- Integrated project delivery
- Construction management-at-risk

Our staff was impressed with the quality of the work and how AECOM has gone beyond what is expected. AECOM performed at a very high level of professionalism, and I’m very impressed with their troubleshooting, communications, organization and planning of all aspects of the project.”

U.S. Navy’s Space and Navy Warfare Systems Command Systems Center Pacific (SPAWAR), Performance Evaluation

A single source for all your project needs, AECOM supports clients at all stages of the project life cycle.
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.

A different kind of energy services company

AECOM’s ability to deliver customized energy services is unmatched. We are the only global planning, engineering and construction management firm accredited by the National Association of Energy Service Companies (NAESCO).

With superior technical and management skills, our engineers, scientists, planners, and construction specialists provide clients customized solutions based on:

TECHNOLOGY NEUTRALITY. As an unbiased technology integrator, we do not manufacture equipment; instead, using equipment that best-fits our clients needs.

INNOVATION. Our technical practice network connects subject matter experts from around the world for innovative solutions to today’s most challenging issues.

PROVEN TOOLS AND PROCESSES. In-house and third-party tools for planning, equipment sizing, design, and project management, including safety and quality, deliver efficient and cost-effective project implementation and management.

DEEP INDUSTRY KNOWLEDGE. Engineers, scientists, and technologists are selected for projects based on their in depth knowledge and expertise in a particular sector and geography to provide excellent service.
AECOM’s OptiSite Siting Program helps clients develop successful renewable energy projects through a detailed site selection assessment. This collaborative process helps clients select the best site to achieve project goals while helping reduce mitigation and permitting requirements.

Our THREE-PART PROCESS defines potential geographies, identifies client goals and objectives, and excludes fatal flaws to develop client-focused results.

**TIER 1** integrates a GIS-enabled regional assessment to evaluate screening criteria at a broad level to determine the most suitable areas for renewable energy development.

**TIER 2** applies a more in-depth study that applies weighted modeling of siting criteria – such as solar intensity, slope, geology, land ownership, sensitive ecological features, proximity to existing infrastructure, and other constraints or resources – to discern sites most suitable for renewable energy facilities.

**TIER 3** emphasizes individual site characterization and further focuses on aspects that would ultimately impact the potential for energy generation, such as resource development costs, construction requirements, permitting constraints, viewshed analysis, potential impact, and benefits to the community.

AECOM also provides a variety of alternative delivery approaches to match the needs of each project and client.

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AECOM’s design-build services delivered 1.9 MW of solar generation at schools in the San Diego Unified School District.
From initial planning to final development and execution, AECOM’s integrated services deliver utility-scale to distributed solar power generation systems.

**With broad solar experience, proven project controls, and customized delivery options, AECOM delivers successful solar projects.**

AECOM has been involved in some of North America’s largest projects, and we are currently working with many of the world’s foremost solar energy developers, manufacturers and leading solar-adopting utilities and government entities on solar power generation facilities.

Environmental planners and scientists provide global knowledge at the local level to facilitate projects through complex siting and permitting efforts.

Experienced staff provide strategic agency and stakeholder guidance to efficiently navigate environmental review processes and minimize compliance and compensatory obligations.

As a leading full-services provider for solar, we provide:

- Full-service engineering, consulting and construction phase services
- Flexible contracting options: owner’s engineer, EPC, or design-build
- Environmental siting, permitting, and compliance

Our comprehensive environmental services include:

- Critical Issues Analyses
- Site Characterization Studies
- Biological Resource Assessments (wildlife, vegetation, wetlands)
- Cultural Resource Assessments including tribal/aboriginal outreach
- Air, soil, noise, and traffic studies
- Water resources (hydrology, storm water, groundwater)
- Socioeconomics studies and modeling
- Glint-glare analysis
- Visual simulations and impact assessments
- Technology-specific evaluations
- Permitting
- Stakeholder outreach
- Compliance monitoring

AECOM has helped deliver more than 15 GW in solar power around the world.
AECOM’s environmental services supported development of the 551 MW Cedar Creek Wind Farm in Weld County, Colorado.
Comprehensive planning, design, environmental, and construction services provide clients with a single source for wind energy developments worldwide.

AECOM’s integrated services seemlessly deliver wind developments of all sizes.

AECOM is equipped to meet today’s challenges with generating and transmission facilities and prepared for the changes ahead.

We have delivered hundreds of wind energy projects and effectively navigate complex project approval processes.

With a broad range of technical resources and project management services, we thoroughly plan, develop and execute:

- Critical Issues Analyses
- Site Characterization Studies
- Environmental Permitting
- Engineering/Design
- Procurement
- Construction Services

We provide strategic support to facilitate siting, permitting and approvals of small and large-scale wind developments, both onshore and offshore.

Comprehensive services include:

- Biological Resource Assessments (wildlife, vegetation, wetlands)
- Cultural Resource Assessments including tribal/aboriginal outreach
- Air, soil, noise, and traffic studies
- Water resources (hydrology, storm water, groundwater)
- Socioeconomics studies and modeling
- Shadow flicker
- Visual simulations and impact assessments
- Technology-specific evaluations
- Permitting
- Stakeholder outreach
- Full-service engineering/consulting
- Construction-phase services
- Owner’s engineer
- Design engineer

AECOM has helped deliver more than 35 GW in wind power around the world.
Environmental Permitting and Compliance Support for the LADWP Beacon Solar Project, Kern County, California.

For this 250-megawatt photovoltaic (PV) solar facility, AECOM provided full permitting support, biological and cultural resources field surveys, Phase 1/2 environmental site assessments, groundwater/hydrological modeling, visual simulations, and other technical studies as well as all agency permit applications. The NextEra solar thermal project was approved by CEC in 2010 and the repermitted PV project was approved by Kern County in 2012 and purchased by LADWP. AECOM served as the environmental construction compliance contractor and the Owner’s Engineer construction manager for site development and all five independent solar sites became operational by January of 2018.
Environmental Services for 300 MW Henvey Inlet Wind Centre and Transmission Line.

AECOM has provided specialty cultural and environmental resources from inception through construction for this 87 turbine, 300 MW wind centre and associated 55 mile (90 km) transmission line located on the Henvey Inlet First Nation reserve.
About AECOM
AECOM is built to deliver a better world. We design, build, finance and operate infrastructure assets 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 had revenue of approximately $18.2 billion during fiscal year 2017.

See how we deliver what others can only imagine at aecom.com and @AECOM.

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