

Electric Power Siting and Permitting

A recognized leader in transmission siting and permitting, GAI Consultants offers a broad range of in-house services, has a long-standing reputation for excellence, and supports clients in the electric transmission industry with expertise and innovation. GAI's 30 years of experience in the siting, licensing, and permitting of transmission facilities includes thousands of miles of lines in the United States, Central America and the Caribbean, and Southeast Asia.

Start-to-finish involvement means dedicated teams in all of the disciplines required to site and permit reliable lines and substations.

Minimizing conflicts with the human and natural environments while managing schedule and cost is key to project success. GAI's siting team understands that this starts at project conception, and that conducting a clear and defensible siting study is often a critical first step. Our team utilizes

state-of-the-art data collection and mapping tools to assist in the development of project alternatives. Comprehensive ranking analyses are employed to assess suitability and identify a preferred alternative in the optimal location. Stakeholder input is an important component in evaluating alternative suitability. GAI's team has the capability to implement a variety of public and agency outreach efforts to solicit input based on the needs of each project. For projects that require a state licensing process, our siting team offers application preparation services and expert witness testimony.

Following site selection, GAI has the in-house capabilities to design and permit both line and substation facilities. Our permitting staff understands federal and state agency standards and scheduling requirements, and has established relationships with regulatory agencies that are built on trust and reliability. GAI's in-house team includes environmental and cultural resources specialists, geotechnical and civil engineers, and water/wastewater professionals. Our in-house capabilities



Service Profile



also incorporate the services of our team of USFWS-certified bat biologists and Florida-endemic specialists.

GAI's services continue during and after construction to help our clients achieve and maintain compliance with regulatory requirements. Our environmental monitors evaluate stormwater management/erosion and sedimentation control effectiveness, monitor permit compliance, and provide training to contractor personnel. Following construction, we offer services in the preparation of vegetation management plans for NERC compliance and invasive

species control. We also offer extensive services in post-construction mitigation, including stream and wetland mitigation design, habitat enhancement and restoration for endangered species, and cultural resources documentation and interpretation.

GAI's proven experience in power delivery system siting and permitting is complemented by structure and substation engineering design, survey, and traffic control services. Our dedicated teams provide complete services for overhead and underground lines and substations, creating a holistic approach to every project.

Electric Power Siting and Permitting Services

- Siting Studies
- Licensing Support and Expert Witness Testimony
- Public Outreach and Websites
- Agency Coordination
- Geographic Information System (GIS) Data Management
- Environmental Surveys and Studies
- Cultural Resource Testing and Surveys
- Federal, State, and Local Permitting
- Site Design and Layout
- Line and Substation Design
- Erosion and Sediment Control/Stormwater Plans
- Access Road Siting and Design
- Phase I Environmental Site Assessments
- Geotechnical and Geological Services
- Wildlife and Endangered Species Surveys
- Vegetation Management Plans
- Invasive Species Mitigation
- Environmental Monitoring and Regulatory Compliance
- Stream and Wetland Mitigation
- Roadway Monitoring
- Surveying

GAI Services Summary

- Airport Planning and Design
- Bridge and Structure Inspection and Design
- Coal Combustion Residuals Management
- Construction Inspection and Management
- Cultural Resources Management
- Economic Analyses and Strategies
- Electric Transmission Design and Siting
- Environmental Engineering
- Environmental Studies, Species Studies, Permitting
- Gas Pipeline Surveying and Mapping
- Geographic Information Systems (GIS)
- Geotechnical Engineering and Geology
- Impoundment and Landfill Permitting and Design
- Land Development Engineering
- Landscape Architecture and Design
- Master Planning and Urban Design
- Mechanical, Electrical, Structural Engineering
- Natural Gas FERC Certification and Permitting
- Nuclear Energy Engineering Support
- Right of Way and Appraisal Support
- Land Surveying and Mapping
- Transportation Planning and Design
- Utility Management Consulting
- Water, Stormwater, Wastewater Management

The scope of professional services that are provided by or offered out of each GAI office including, but not limited to, engineering and surveying services, is governed by the professional and business licensing requirements of each individual State or jurisdiction in which the GAI office is located and whether GAI has the requisite professional and business licenses for that State or jurisdiction. Nothing on GAI's Web Site or marketing materials is intended to be interpreted or construed as offering to perform professional licensed services where prohibited unless the licensing requirements have been met. Engineering services are not offered out of GAI's Northern Kentucky (Florence) office location. Surveying services are not offered out of GAI's Illinois location or by our New York subsidiary.