



Electric Transmission and Distribution Services

CEC integrates technical expertise with client-first service to provide specialized design, permitting, and management service solutions to support development, construction, and maintenance of critical electric transmission and distribution infrastructure.

With our vast linear and site development experience and a broad range of service offerings, CEC provides a unique advantage by supporting the project lifecycle from route selection and conceptual design to permitting and regulatory approval to construction.

ROUTING AND SELECTION

CEC provides support from project initiation to ensure that critical path permitting, investigation, and planning activities are recognized and completed. Our project experience ranges from local distribution lines to FERC-regulated interstate transmission lines. Services include:

Siting and Project Fatal Flaw Analysis

- Phase I and II Environmental Site Assessments
- Permitting Analysis and Feasibility
- Archaeological Investigations
- Constructability Analysis
- State Utility Commission and Siting Board Filings

Ecological Services

- Wetland Assessment, Delineation and Mitigation
- Section 401/404 Permitting
- Threatened & Endangered Species Surveys and Permitting
- Route Development and Right-of-Way Design

Geospatial Technology Services

- Conventional Land Survey Services
- GIS and Data Management
- Unmanned Aerial Vehicle (UAV) Technology
- LiDAR Scanning Services

Geotechnical Services

- Predevelopment Geotechnical Investigations
- Geotechnical Analysis





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PROJECT DESIGN, CONSTRUCTION, AND PERMITTING

CEC provides integrated design and permitting services for linear transmission and distribution line projects and substation site development. We use our experience and relationships with local, state, and federal regulatory officials to help streamline the permitting process. Services include:

Civil/Site Services

- Stormwater Management Systems/BMP Design
- Erosion and Sediment Control Plans and Construction Stormwater Discharge Permitting
- Site Grading/Earthwork Analysis
- Access Road Siting and Design
- Horizontal Directional Drilling Boring Plans

Geotechnical Services

- Geotechnical Analysis
- Foundation Design

Ecological Services

- Wetland Assessment, Delineation and Impact Mitigation
- Section 401/404 Permitting
- Threatened & Endangered Species Surveys and Permitting

Construction Quality Assurance and Environmental Inspections

- On-site Construction Monitoring
- Environmental Compliance Management
- Stormwater/Erosion and Sediment Inspection and Monitoring
- Construction Management



OPERATIONS SUPPORT AND ASSET MANAGEMENT

CEC provides utilities with services to aid in the management and maintenance of critical infrastructure and components. We offer services for substation expansions, reconstruction, and facilities maintenance; design and construction of new facilities; and the modification, upgrade, and repair of existing facilities.

Engineering and Design

- Conceptual Design and Preliminary Engineering
- Laser Scanning for Existing Conditions Design
- 3D Renderings and Designs
- Civil, Geotechnical and Structural Engineering
- Mechanical/HVAC Engineering
- Architectural Design
- As-Built Surveys and Drawings

Construction Management and Inspection

- Project Management and Construction Quality Assurance
- Stormwater/Erosion and Sediment Inspection and Monitoring
- On-site Construction Audits
- International Building Code (IBC) Inspections

Environmental Compliance and Engineering

- Environmental Permitting, Reporting, and Compliance Monitoring
- Spill Prevention and Response Planning
- Site Investigation and Environmental Monitoring
- Environmental Remediation Design and Oversight

