



# Biogas Development Services

As the nationwide interest in biogas waste-to-energy solutions intensifies, CEC is well-equipped to support the development of biogas, or anaerobic digestion, facilities.

CEC teams with Biogas Developers and technology providers to offer public and private owners necessary engineering, design, and permitting services. CEC's depth of expertise across multiple disciplines provides a unique benefit to biogas projects. CEC engineers in the energy, waste management, wastewater, site development, and environmental fields understand the issues pertinent to the development of biogas digestion sites.

CEC's offices are located throughout the Midwest, Southeast and Northeast Regions and can provide local expertise in areas of high biogas development potential. CEC's expertise applies to biogas project types including stand-alone greenfield development projects as well as modification of existing sites.

## PROJECT EVALUATION AND SITE INVESTIGATION

CEC is able to perform comprehensive project due diligence to assist clients with go-no go decisions concerning a potential project and site. Services include:

- Financial feasibility analysis
- Assistance with Power Purchase Agreement Negotiation
- Desktop-based review of jurisdictional requirements and site constructability.
- Jurisdictional Waters Delineation
- Environmental Site Assessment Phase I & II
- Request For Proposal preparation and management

## CIVIL ENGINEERING & SITE DEVELOPMENT SERVICES

CEC has extensive experience managing the design, approval, and on-site construction processes associated with site development in an array of market sectors. CEC has developed a reputation for creating high-quality, buildable design solutions within construction budgets. Relevant services include:

- Geotechnical Investigation and Engineering
- Brownfield Site Remediation
- Survey and Construction Staking
- Conceptual Site Design
- Construction Documents
- Stormwater Management Plans
- Erosion Control Plans and NPDES permitting
- Construction Administration
- Materials Testing and Construction Quality Assurance (CQA)

## PERMITTING

CEC is adept at preparing and managing construction and environmental permits, including air, stormwater, wastewater, waste handling, NPDES, and local building permits.

## WASTEWATER PRE-TREATMENT

Industrial wastewater is complex, variable, and difficult to treat. Successful systems often involve more than one technology or approach. CEC assists clients with determining appropriate technologies by conducting bench-scale and pilot-scale tests in our laboratories or on site. CEC's industrial wastewater solutions include a wide range of physical, biological, and passive treatment systems.

