In a complex regulatory environment, the power industry’s focus remains on providing reliable service that balances expanding energy demands, risk, and financial expectations.

Tightening regulations and changing market drivers are leading the industry to consider implementing costly changes, mothballing select facilities, or retiring marginal or less efficient power stations altogether.

As the industry continues to meet the demand for more power, maintain service reliability, and comply with complex state and federal environmental regulations, it also must take advantage of strategic opportunities to improve fiscal performance, reduce releases to the environment, and limit other potential liabilities.

With a portfolio that includes some of the largest, most complex power industry projects in the United States, CEC is well-equipped to help enhance operations or strategize for change as the demand for traditional fuels evolves.

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CEC develops and implements strategies to minimize risk, optimize performance, and reduce costs associated with fossil fuel, nuclear, and renewable power generation and delivery.

**Air Quality Consulting**
- Regulatory knowledge: navigation of air dispersion modeling and stack testing/locations of emission sources; management of CEMS, equipment, and CEC assist clients with air quality compliance needs.

**Water and Wastewater Management**
- Challenging water management demands are addressed. With high-risk facilities in CEC's portfolio, expertise can be applied to CEC's client needs. The firm meets clients' needs for a broad range of project requirements, including the new Effluent Limitation Guidelines and also conducts hundreds of tests and studies of adverse impact studies.

**CCG Management**
- Experts have the management of CCG in mind. Involvement includes design and ensuring of management states, location restrictions, construction, structural integrity, inspections, groundwater monitoring, and corrective actions in compliance with existing regulations.

**New Facility and Right-of-Way Services**
- For new facilities and infrastructure, CEC provides in site selection, characterization, and inter-site public utility commission permitting. Multidisciplinary operations and distribution of new technology service include performing varied and technical assessments and logistical support assessments while assisting with site development.

**ONLINE**

**Large and Complex Projects**
- Expertise and experience with some of the most noteworthy power industry projects in the nation emphasize the learning curve. CEC's experience includes a comprehensive and thoroughly planned approach to monitoring all services and long-term impacts at every stage.

**Direct Industry Experience**
- CEC expert services are critical in the fossil power industry and understand client objectives and motivations. These experts ensure year-round expertise and understanding of relationships and strong technical knowledge to tailor services and resources to better serve project and client needs.

**Broad Industry Perspectives**
- Having served a diverse array of industries, CEC brings combined vision to ensure a comprehensive approach. This begins with assessing and anticipating potential alternative uses for assets by applying real-world experience and understanding of life expectancy and market development knowledge.

**Robotic Ecological Services**
- CEC develops and integrates services to support existing power plants. Enhancing the services with additional capabilities, including but not limited to additional contractors. Already in field investigations for decommissioning and replacement services, CEC is known for linking high-technology, helicopter-based CEC, for the development of a comprehensive approach to the environmental impact of renewable energy development.

**For more information, contact CEC at 800-854-8588.**

**THE CEC ADVANTAGE**

**Cost**
- CEC's approach focuses on safety and compliance while meeting with facility design planning, permitting, generating characterization and management of waste, to waste management of contaminants, construction, and landfills and real estate planning. CEC's approach is cost effective and time efficient. CEC has long-term impacts at every stage.

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ONLINE

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Air Quality Consulting
Regulatory knowledge enables optimizing air dispersion modeling and stack testing/interim emission controls systems (CEC). Equipped to serve CEC assist clients with air quality compliance needs.

Water and Wastewater Management
Challenging water management demands are addressed. From high-rate trickle filters to IDEE simulation, CEC provides clients with IDEE input, test requirements, including the new Effluent Limitation Guidelines, and also conducts bench and pilot-scale testing and studies at various water supplies.

CRC Management
Expertise of the management of CBUs in sludges and improvements include design and permitting of management units, location restrictions, streamlined management structural integrity assessments, groundwater monitoring and corrective actions in compliance with permitting regulations.

New Facility and Right-of-Way Services
For new facilities and infrastructure, CEC provides in site selection, characterization, and inter-jurisdictional utility commission permitting. Multidisciplinary transmission and distribution right-of-way services include performing cultural and biological impact assessments while existing with site development.

OFFLINE

CEC brings a battery of successful site closure plans along with new and renewal strategies, and new regulations to closing an asset to the offshore to a final retired status.

Decommissioning and Demolition
CEC’s approach focuses on safety and compliance while working with facility demolition planning, permitting characterization and management of waste, on-site management of deconstruction, and liability and real estate planning. CEC possesses the training and field instruction to extricate gas pipes and landfill gas pipes, as well as evaluate waste management and liner systems.

CRC Landfill and Impoundment Closure
Site characterization and closure plans design includes studies and monitoring at groundwater wells, surface water points, spring levels, and locations, and construction of a digital groundwater flow and contaminant transport modeling, geophysics are able to predict the impact of cutback closure remediation. CEC’s experience with landfills, field-tested, and evaluated, and the constructability of alternative closures also field tested. CEC has developed and implemented plans for culm-line seeding of CBUs for short-term and fast containment, including dustfall monitoring and modeling.

Remediation
Influenced across the volume to be sold or certified at the end of life, CEC’s CRC performance remediation of soil and water to minimize risk and manage remediation releases. CEC provides evaluation of contaminated remediated gas using design and implementing site remediation programs, property air monitoring studies, and closure scrubbing to avoid risk.

CEC Civil & Environmental Consultants, Inc.
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THE CEC ADVANTAGE

What sets CEC apart is that we serve our clients in our chosen areas and utilize multidisciplinary teams. The following strategic points are the reasons:

Large and Complex Projects

In-depth and long-term experience with some of the most noteworthy power industry projects in the nation establishes CEC as a premier environmental firm with strategic relationships.

Direct Industry Experience

Influential long-term relationships with the energy and natural resource industries allow CEC to be the go-to environmental resource.

The CEC Approach

It is driven by the expertise of our employees and the multidisciplinary teams that create a high level of service and solutions.

Broad Industry Perspective

Having served a diverse array of industries, CEC brings a broad perspective to the entire operation.

ONLINE

CEC develops and implements strategies to maximize risk, optimize performance, and reduce costs associated with fossil fuel, nuclear, and renewable power generation and delivery.

Air Quality Consulting

Regulatory knowledge coupled with air dispersion modeling and stack testing/verification services enable CEC to assist clients with air quality compliance needs.

Water and Wastewater Management

Challenging water management demands are addressed. From high toxicity levels to FGD treatment systems, CEC helps clients meet PSDF process requirements, including the new Effluent Limitation Guidelines, and also conduct bench and pilot-scale testing and studies at in-service reliability levels.

Robust Ecological Services

Expertise with the management of CCRs in landfills and impoundments includes design and permitting of closure of CCR management units and coal piles, as well as new landfills and impoundments.

CCS Landfill and Impoundment Closure

Site configuration and closure plans design includes studies and monitoring at groundwater wells, surface water points, spring/seep locations, and domestic and industrial wells. With the use of digital groundwater flow and contaminant transport modeling, predictions are able to predict the impact of various closure scenarios.

Remediation

Crucial work includes assessment, field testing, and evaluation, and the constructability of promising technologies is also field tested. CEC has developed and implemented plans for cullies for the marine inerts at fuel ash, including dustfall monitoring and modeling.

OFFLINE

CEC brings a legacy of successful site closure plans shown above and a reputation when working with clients to transition facilities to an offline or retired status.

Decommissioning and Demolition

CEC’s approach focuses on safety and compliance while working with facility decision-makers, permitting, characterizing and management of waste, on-site/remote management of classification, containment, and final clean-up plans. Plans of exclusion and final closure strategies and in-service reliability levels.

Removal

Influential long-term relationships and direct-industry experience allow CEC to serve our clients with superior performance and attentiveness at a high level of expertise.
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