

Electric Utility Consulting Services

Unique expertise to support electric utilities in navigating today's operational and engineering challenges

Celerity has an extensive history of developing and supporting full service programs, performing independent program audits, and supplementing utility efforts to ensure effectiveness of critical business activities. Our staff provides high level technical utility expertise in support of a wide array of electric issues. Our electric utility team includes senior management members with more than 30 years of experience working in and consulting with the electric utility industry.

Strategic Support

Audit/Inspection Program Evaluation

- Evaluate effectiveness of engineering, construction, maintenance and operating practices and standards to ensure public and employee safety, operating efficiency, system reliability, and to minimize business risk
- Provide independent audits of facilities or records to ensure compliance with regulations or company standards
- Develop comprehensive quality management programs that include: business process maps, description of process capabilities, assessment of the adequacy of controls, and development of improvement plans

Asset Management

- Provide strategy and implementation planning/assistance for optimizing the balance between utility asset physical condition (age, appearance, safety), operating performance (reliability and operability), and financial decisions (repair vs. replace)
- Review/develop Substation Condition Based Maintenance program
- Review Arc Flash program documents, including technical design and labeling
- Review Ground Grid Design Program documentation for substations or transmission lines

Control/Dispatch Center Optimization

- Review current work processes and technology
- Review current and proposed staffing plans
- Work with leadership to develop optimization plan

Strategic & Business Planning

- Develop/Assess business unit strategic plans, change initiative strategic objectives, or department business plans
- Create an achievable, measurable road map while addressing changing regulations, increasing customer demands and expectations, aging infrastructure, and resource shortages (employees and financial)

Electric System Planning (Capacity, Protection, and Reliability)

- Review existing program and tools
- Assess Smart Grid and Distributed Generation integration capabilities
- Develop utility specific programs (systemwide or area/substation/circuit specific)

Technical Services

Data Management

- Design tools to ensure field data collection is easy and comprehensive
- Perform analysis to identify corrective work assignments and future work planning
- Develop custom tools and equipment inventory protocols
- Design tools to support compliance and management of employee training/certification requirements
- Facilitate knowledge transfer between workers during times of extreme attrition or workforce expansion

Standards Development (Design, Construction, Operations, and Maintenance)

- Review and update existing company guidance documents to comply with regulatory and industry standard requirements
- Develop new guidance documents such as standards, procedures, and job aids to ensure compliance with regulatory and industry requirements
- Develop or revise a company's process for initiating, developing, and updating guidance documents

Smart Grid

- Provide technical support for Battery and Photovoltaic technologies
- Evaluate/Develop Smart Meter deployment program
- Provide planning support for high level integration of Distributed Generation

Emergency Preparedness

- Evaluate and develop existing plans
- Develop/deliver necessary training programs
- Facilitate and support training exercises

Regulatory/Litigation Support

- Provide high level technical Utility expertise to support Utility Law Departments in attorney sponsored research of specific technical issues, incident investigation, and rate case preparation (discovery and witness preparation)
- Provide expert witness services and/or support
- Coordinate data and damage analysis

Incident Investigation & Failure Analysis

- Provide high level technical Utility expertise to support investigation, analysis, and reporting
- Coordinate industry research and required testing

Electric Estimating & Mapping

- Complete electric design projects using Utility prescribed tools (Underground Subdivision design, Wood Pole replacements, Overhead to Underground conversion projects, etc.)
- Support Utility records and document management processes

Company

Celerity Consulting Group is an information management consulting firm which includes a practice area focused on electric utility support. We have a particular depth of expertise in the natural gas and electric utility sectors. Our professional staff includes industry experts, thought leaders, technical and systems experts, data management professionals, and testifying experts. Celerity clients include Fortune 500 companies, some of the largest utilities in the country, and several state attorneys general offices.

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