

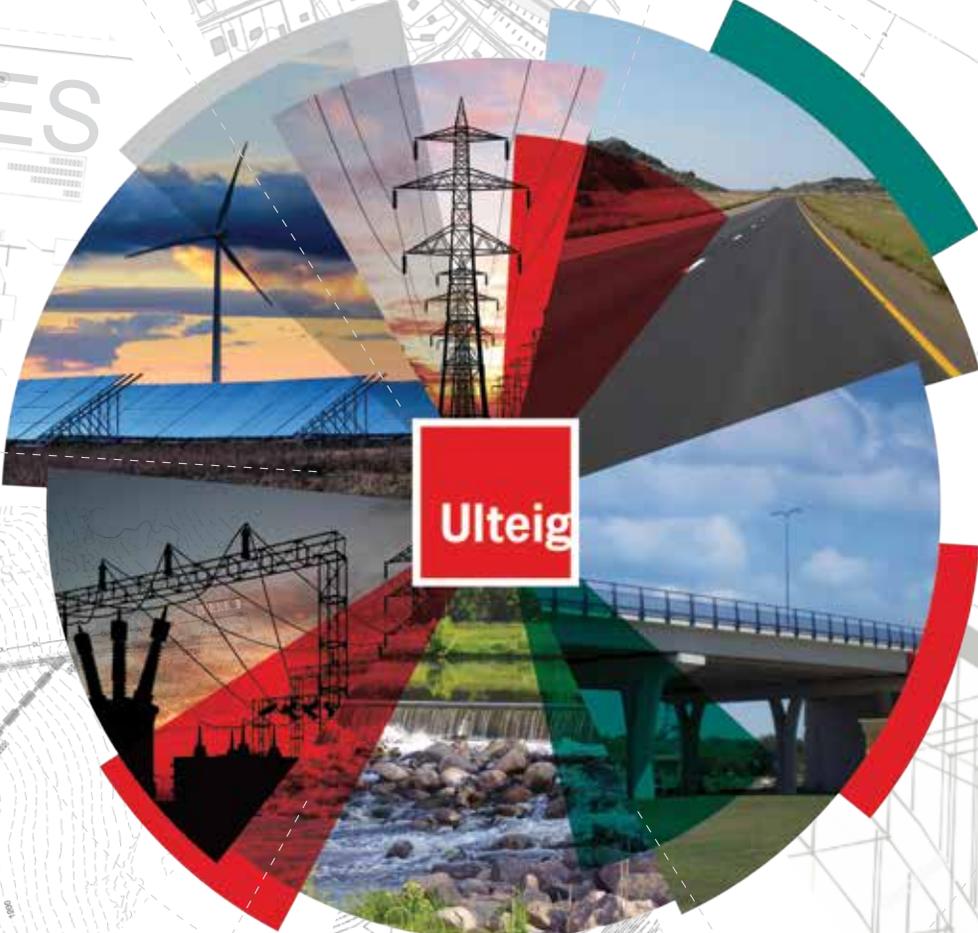
SERVICES

SOLUTIONS

CAPABILITIES

Ulteig

EXPERTISE



ELEVATION (EQ) = 1206.40

T21



We listen. We solve.®

## LETTER FROM THE PRESIDENT

2019-2020

*They are simple acts that we take for granted every day – turning on a light, pouring a glass of water, driving through a busy intersection. And yet the behind-the-scenes work necessary to make these acts simple, safe and reliable is often incredibly complex, requiring thoughtful planning and impeccable implementation. Ulteig is proud to serve as a partner to those organizations that are ultimately responsible for managing these challenges.*

*Ulteig is no stranger to tackling challenges. In 2019, we celebrate our 75th anniversary, a milestone that underscores our ability to adapt to the constantly-evolving needs of the Lifeline Sectors® where we operate. Our clients rely on our decades of experience to maneuver through the difficulties of aging infrastructure, complex regulatory environments, limited funding and catastrophically high cost of failure. Although the execution can be complicated, our process is straightforward: **We Listen** by connecting with all stakeholders to form a clear understanding of need and **We Solve**, connecting answer to question and aligning problem with expert.*

*Longevity is important, and so is growth. Since the implementation of our strategic plan in 2016, we have grown our revenue by nearly 40% and expanded our client base by over 20%. As we embark on the next generation of our strategic plan, we will build on that foundation of growth. Our 440+ employee-owners are committed to delivering even greater value for our current clients while expanding our reach and offering a solutions-focused approach to more clients in more geographies.*

*In the following pages, I invite you to learn about our capabilities and accomplishments across our Lifeline Sectors, which include Power, Renewables, Transportation and Water. You will gain an appreciation for our depth of expertise in six service disciplines: Land Services, Environmental, Planning & Studies, Design & Engineering, Construction & Project Management and Asset Optimization.*

*Dedication, excellence and integrity have been the fundamental tenets of Ulteig for 75 years. We continue to apply these to create reliable solutions for our clients and the communities they serve – and it is our privilege to do so.*

*We look forward to the opportunity to work with you.*

**Doug Jaeger, President & CEO**



***“Our clients rely on our decades of experience to maneuver through the difficulties of aging infrastructure, complex regulatory environments, limited funding and catastrophically high cost of failure.”***

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## DEDICATION.

**We Dedicate Ourselves to Our Clients' Success**

At Ulteig, we believe deeply in the goal of shared success. The desired outcome to every project will be good for our clients, the community and the environment.

## EXCELLENCE.

**We Pursue Excellence in Our Work**

Whatever the challenge we are working to solve, our team creates the most efficient, effective strategy, designing and building quality infrastructure that lasts.

## INTEGRITY.

**We Act with Integrity**

We do the right thing every time, upholding our Midwest values. We hold on tightly to our company's hometown feel and are proud of our big-city capabilities. We keep every stakeholder's concerns and wellbeing in mind.

**Clients depend on Ulteig to deliver comprehensive engineering and technical services that strengthen infrastructure vital to everyday life.**

# 100%

Ulteig is 100% employee-owned, with an employee stock ownership program (ESOP).

## Our people and the promise that we make:

Ulteig is wholly built on the belief that growth starts with individual achievements. Innovation requires talented, curious people. Our employee-owners work in multi-disciplinary teams across core Lifeline Sectors® to learn from each other, create new approaches and devise expert solutions.

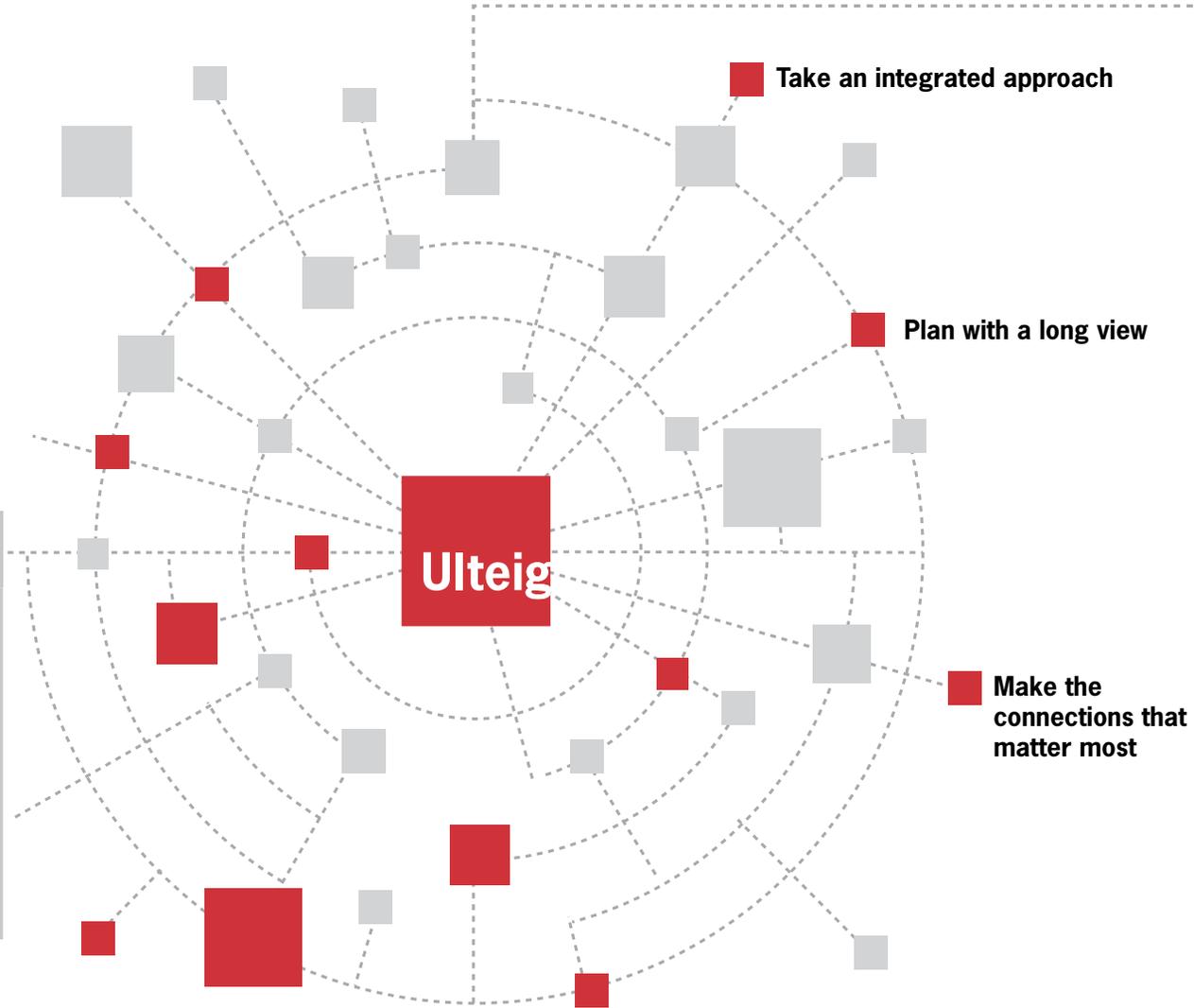
In 2018 alone, **the Ulteig team grew by 20%**. With more than 440 employee-owners completing projects in **41 states** and a **projected growth of another 20-25% in 2019**, our footprint continues to span the country.

# HOW WE WORK

More than ever before, communities rely on the connections that bring infrastructure, services and information to their citizens. Ulteig is committed to designing, planning, building, sustaining and maintaining the interconnected infrastructure vital to everyday life.

## Lifeline Sectors®

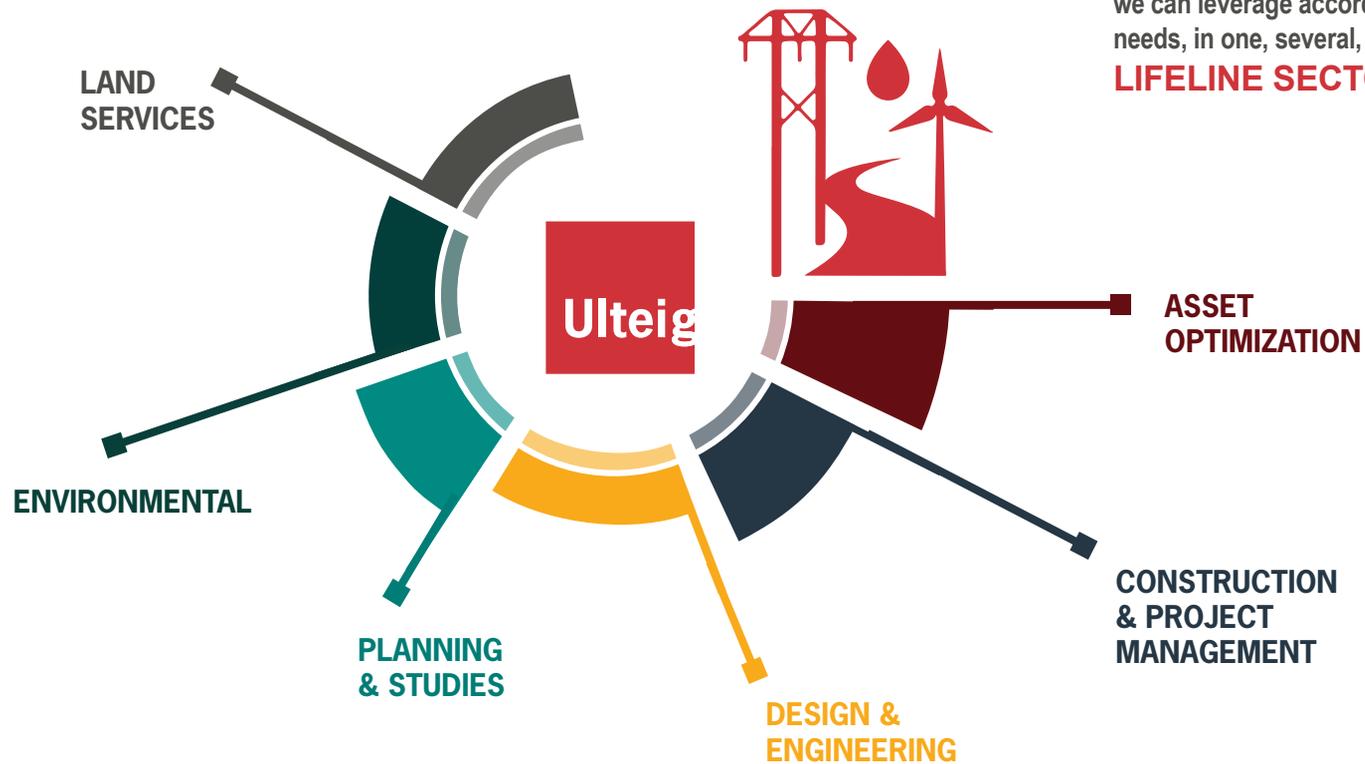
We define Lifeline Sectors as vital links for the normal function of social and economic fabric as well as people's daily lives. These include power, renewables, transportation and water.





# OUR SERVICE DISCIPLINES

We have six primary areas of expertise that we can leverage according to your project needs, in one, several, or across all of the **LIFELINE SECTORS®**.



# ULTEIG'S LIFELINE SECTORS<sup>®</sup>



Ulteig currently holds  
**50+**  
Master Service  
Agreements with  
power clients.



Over the last  
**20 years,**  
Ulteig has designed  
125+ projects  
contributing to the  
generation of more than  
28GW of renewable  
energy in North America.

## POWER



America's power grid and infrastructure have come under increasing challenges in three key areas: asset renewal, grid modernization and operational excellence. Ulteig is a proven infrastructure partner, working with progressive power companies to overcome these challenges with integrated, expert solutions that produce exceptional results. We serve a wide range of electric utility clients, including investor owned utilities (IOUs), generation and transmission clients (G&Ts), cooperatives and municipalities. Our solutions are instrumental in helping our clients achieve success when addressing aging infrastructure, limited space, demand for smart grid technology, renewable integration, reliability and resiliency, growing O&M needs, pricing pressure, an aging workforce, limited resources and compliance.

## RENEWABLES



Ulteig assists our clients from project start through completion, providing successful on-time and on-budget performance, regardless of the project size, scope and structure. The continued demand for cost-effective and reliable renewable energy sources is driving the need for a higher level of engineering expertise necessary to support this trend. Ulteig has a strong and proven track record of providing developers, owners, operators, engineer procure and construct (EPC) contractors and utilities with innovative professional services and full project support and execution. Ulteig is committed to delivering reliable solutions to be the renewable partner of choice in the industry.

*At Ulteig we work across the entire infrastructure, the silent foundation that sustains everyday life. We specialize in **Power, Renewables, Transportation and Water**, and call these **LIFELINE SECTORS<sup>®</sup>**.*

*In fact, we registered that name, **Lifeline Sectors**, because we feel so strongly about what we do. We are creating and maintaining lifelines. We're helping people live cleaner, safer, healthier, better lives.*



Ulteig has assisted in securing more than  
**\$39 million**  
 in infrastructure funding over the last five years.



Ulteig has delivered water and wastewater solutions to a wide range of public and private clients for  
**50+ years.**



**ULTEIG'S INTEGRATED SOLUTIONS** are driven by the depth and breadth of our service disciplines, providing a complete package suited to meet your unique needs.

## TRANSPORTATION



Ulteig has a long history of successful transportation projects that create more reliable connections. We are accustomed to meeting the requirements and expectations of federally funded projects and working with state departments of transportation, airports and state agencies, as well as municipal and county levels of government. This includes planning, environmental, design and construction services for complex urban intersections, corridor retrofits and rural highways. Ulteig produces meaningful results for connecting people to one another and their workplaces, connecting resources and goods to consumers and connecting entire economies to one another.

## WATER



Ulteig's team of experts offers cost-effective water and wastewater engineering solutions, and has the essential local presence, coupled with an expertise in the financial and operational needs and challenges of our clients. Ulteig's engineers, technicians and operators provide the experience and innovation to develop dependable water and wastewater infrastructure solutions through a complete range of planning, design and operational services. We help extend the life and service of existing resources and infrastructure by delivering high-quality projects with long-term reliability to municipalities, counties, watershed districts and state and federal agencies.

***"Ulteig embodies professionalism and exhibits a willingness to listen and participate, taking the time to understand the project before bringing forward solutions. Most importantly, Ulteig works to provide a product that meets the needs of Blattner and our clients."***

**Steve Quade, Blattner Energy**

# ULTEIG IS MADE UP OF **EXPERTS**

with different combinations of experience — across our four **LIFELINE SECTORS®** and throughout our six **SERVICE DISCIPLINES**.

Together our team brings precisely the right skills, education and training to collaborate relentlessly and create innovative solutions, however complex your challenge or need.

*“Ulteig has an established reputation in the industry. They back that reputation up by providing quality design work, good communication, project management and completing projects on time. I would recommend Ulteig.”*

*Great River Energy*



**POWER**



**RENEWABLES**



**TRANSPORTATION**



**WATER**

# City of Glyndon



## PROJECT PROFILE

LAND SERVICES +  
DESIGN & ENGINEERING + CONSTRUCTION & PROJECT MANAGEMENT

This rural town in north-central Minnesota was overdue for several infrastructure repairs, including reconstruction of a one-mile stretch of rural section highway into an urban section of city street with a multipurpose trail and sidewalk. Glyndon's 50-year-old wastewater collection and water distribution piping was also in need of replacement.

Ulteig was selected by the Clay County Highway Department and City of Glyndon to complete design and construction for this entire project. The design portion was completed in 2018, including lowering and regrading utilities beneath the roadway, as they did not meet requirements. The water distribution system within the reconstruction area also required replacement and upsizing to ensure sufficient water supply to meet the City's increasing demands.



Construction of the project is scheduled for the spring of 2019 and will include converting the main arterial rural section of roadway to an urban section, adding a curb and gutter, building a storm sewer system and incorporating a sidewalk and bike path on opposite sides of the street.

This project will dramatically improve pedestrian safety and traffic flow through town, making Glyndon a more appealing prospect for potential new businesses and homeowners.

*"I'd like to express gratitude from the City of Glyndon for the professionalism and diligence exhibited by Ulteig and Clay County Engineers throughout the development of this project. When completed, it will bring a whole new look to our city with curbs, gutters and sidewalks along a main thoroughfare."*

**Cecil Johnson, Mayor of Glyndon, Minnesota**



# Wind Facility & System Upgrades

## PROJECT PROFILE

DESIGN & ENGINEERING + CONSTRUCTION & PROJECT MANAGEMENT

As a recognized leader in the renewable industry, Ulteig was asked to serve as electrical Engineer of Record for both the wind facility and the system upgrades for this 60 MW wind project located in southern Colorado. Leveraging Ulteig's Integrated Solutions with experts in our power and renewables Lifeline Sectors, the client will optimize resources and gain efficiencies.

As a valued partner, Ulteig's first order of business was helping the diversified energy company determine what would be required of the full electrical design. With that now established, Ulteig is moving forward with collection system, substation and transmission line engineering. This work, as well as procurement of major long-lead materials, will be completed under direct contract with the client.



The \$71 million wind facility is expected to be constructed and in service by the end of 2019 and will serve Colorado electric customers through a 25-year power purchase agreement.

### DID YOU KNOW?

*Ulteig is ranked #3 in the Engineering News Record's 2018 Top Design Firms in Wind Power.*

# LAND SERVICES

Ulteig has the distinct combination of capacity and experience to deliver a wide range of surveying services.



## SURVEY

Our highly trained survey teams deploy industry-leading hardware and software to perform many types of land surveys and construction staking projects.

### Land Surveying

- ALTA/NSPS land title surveys
- Boundary surveys
- Cadastral surveys
- Construction staking surveys
- Control surveys
- Topographic design surveys
- Easement surveys and land descriptions
- Land divisions and subdivision platting
- Mapping

### Geographic Information Systems (GIS)

- Geometric network modeling
- GIS needs assessments and implementation plans
- Mobile mapping solutions
- Site selection
- Suitability modeling
- Utility mapping and modeling



## WIND FARM LAND SERVICES

■ Lifeline Sectors: Renewables | Location: Northeastern South Dakota

In 2017, Ulteig began the planning and design of a 600-megawatt wind farm project in northeastern South Dakota that covered approximately 225 square miles, impacting multiple areas of cultural and environmental significance.

The Ulteig Land Team collaborated with the client to define transmission and collection routes, turbine locations and access. The client commissioned Ulteig for approximately 200 ALTA surveys for the future transfer of property to the end user. Ulteig managed land title and dwelling inventory, which was used as part of the shadow flicker analysis impact to determine turbine placement. Ulteig's right-of-way specialists and land teams assisted in the preparation and negotiation of utility crossing agreements. Ulteig also applied field techniques that included GIS as well as conventional and mobile survey to provide real-time solutions in the development of this evolving project.

The success of this project was dependent on Ulteig's responsiveness to client requests and its ability to efficiently work with multiple groups simultaneously.

*"The surveyor who completed our project was a consummate professional. The project was managed efficiently, with care and consideration for our needs. We were provided excellent service, with clear communication every step of the process."*

*Survey Client in Williams County, ND*



## RIGHT-OF-WAY ACQUISITION

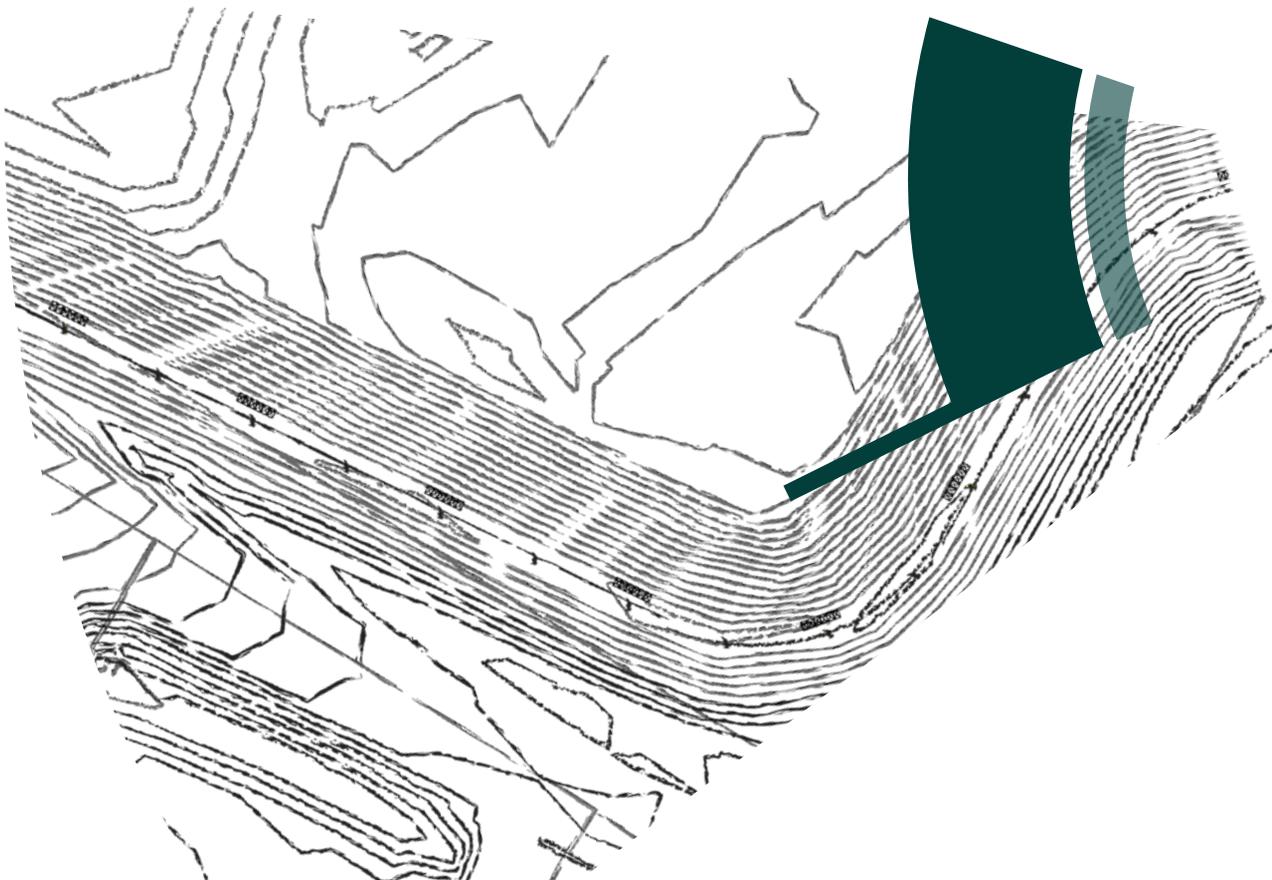
As the layout of the project takes shape, right-of-way acquisition is an essential step in the process of developing a concept into a successful project site. Ulteig's experienced real estate professionals deliver site acquisition and right-of-way services for a wide range of projects. Ulteig's experts negotiate land purchases, leases, options and easements to best meet the client's project objectives and criteria. The team also handles document preparation, permitting, land title searches and public presentations.

### Expertise

- Municipal infrastructure
- Roadway, large-scale electric transmission and pipeline corridors
- Utility scale renewable projects
- Relocation assistance and services
- Land acquisition
- Title research

# ENVIRONMENTAL

Our team guides clients through compliance, permitting and agency coordination, acting as your one stop shop.





## ENVIRONMENTAL

Ulteig's environmental experts guide clients through the regulatory process to keep the project moving forward. We evaluate environmental impacts so clients can make informed decisions during the project's development phase.



### Federal, State & Local Permitting

- U.S. Army Corps of Engineers section 404 permit
- Section 401 of the Clean Water Act
- National pollutant discharge elimination system (NPDES)
- Air quality permits
- Watershed district permits
- Wetland alteration permits
- Local conditional use permits
- Sovereign land permits
- Flood plain permits
- No rise certifications (FEMA)

### Corridor Studies

- Transmission line routing studies
- New highway alignment studies
- GIS suitability analysis

### Environmental Documentation

- Documented CATEXs
- Project memorandums
- Environmental Assessments (EAs, EAWs)
- Section 4(f) Analysis

### Stakeholder Involvement

- Public input meetings, hearings and informational open houses
- Media coordination
- Mass mailings
- Individual stakeholder meetings
- Special interest groups
- Surveys and questionnaires

### Project Development

- Coordination of on-site investigations
- Noise monitoring and modeling
- Soliciting input from federal, state and local government agencies
- Impact analyses
- Mitigation strategies

# PLANNING & STUDIES

Our goal is to ensure that consensus is reached and innovative, expert solutions are carried out, creating efficiencies and facilitating communication along the way.

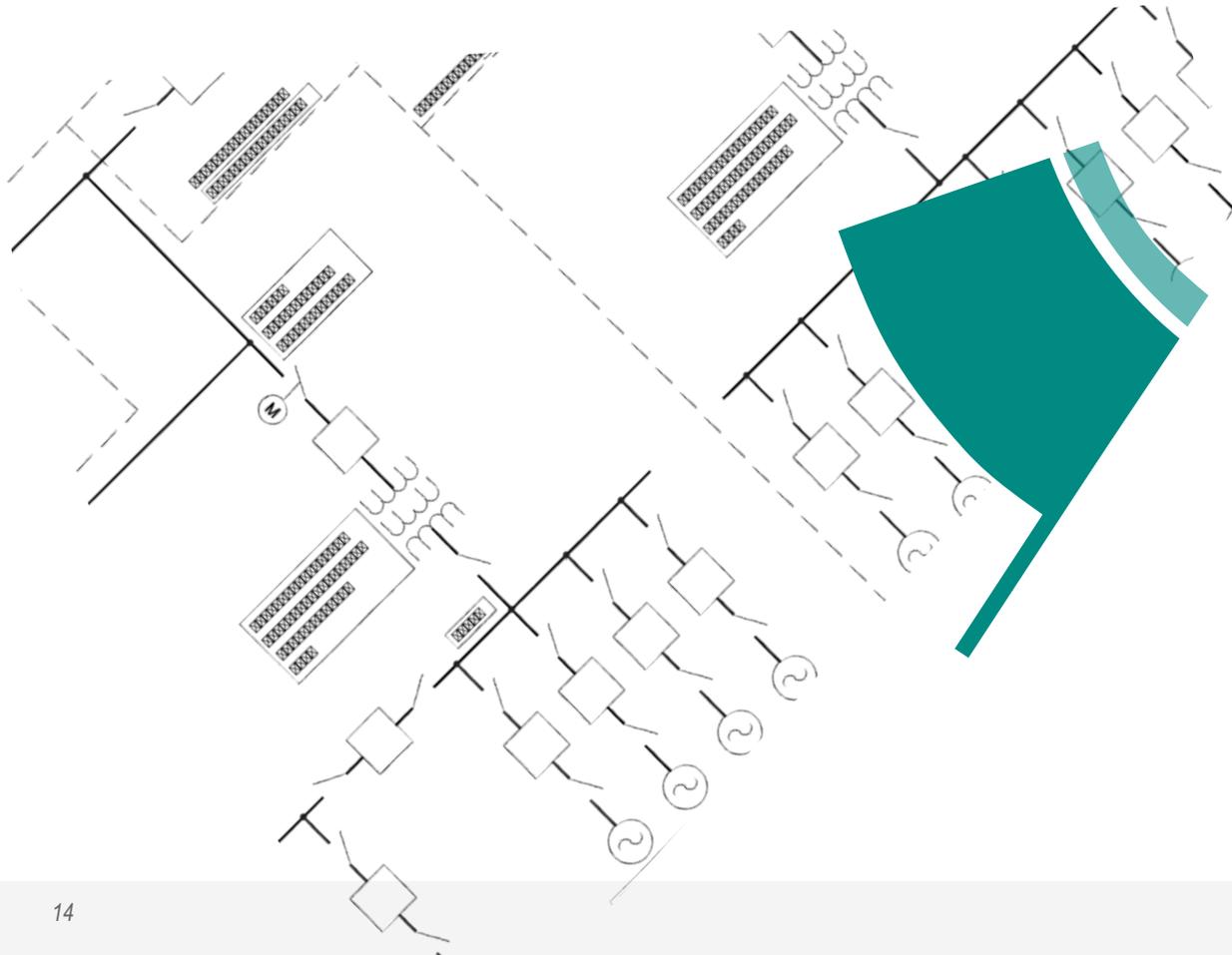
*“We enjoy working with the Ulteig team. We appreciate the level of attention to detail, diligence and expertise Ulteig delivers while managing simultaneous projects. It can be hard to find partners in the industry who have the right mix of bandwidth and expertise. We are glad Ulteig is working with us and extremely happy with level of professionalism from the team.”*

**Sunchase Power**

## STUDIES

Ulteig is well positioned to conduct a wide range of studies in transmission, distribution, generation interconnection and economic feasibility. We manage all aspects of the studies in-house, resulting in better efficiency and communication, and giving you direct and reliable access to our team.

Our studies help clients weigh the myriad alternatives in the energy market and make informed business decisions. With our vast experience and knowledge of the regulatory environment, we provide insightful analysis to help guide in decision-making, and advise of potential pitfalls and future project considerations.





## ERCOT & EARLY-STAGE PROJECT PORTFOLIO SUPPORT

■ Lifeline Sector: Renewables | Location: Texas

Clearway Energy, a new company that emerged from the sale of NRG Energy’s renewables platform, is one of the largest clean energy companies in the United States. Its operating footprint includes 2.8 GW of wind, 1.1 GW of utility solar and over 200 MW of distributed and community solar.

With several owned projects under development in Texas, Clearway needed accurate forms and studies to meet the requirements of the regional transmission operator for interconnection applications. Ulteig aided in this process, generating forms that reflected the preliminary project design and PSSE models necessary to submit Clearway’s interconnection studies to ERCOT. Ulteig also performed reactive power studies to determine the sizing of reactive power compensation equipment.

Having become a trusted resource to the Clearway team, Ulteig now offers ongoing support for early-stage studies, layouts and transformer spec reviews across Clearway’s growing portfolio of renewable projects. Preliminary substation, collection and transmission line designs have been added to Ulteig’s scope of work on various wind projects owned by Clearway, such as Patriot Wind and Mesquite Star.



### Generation

- Underground cable ampacity
- Voltage drop analysis
- NERC compliance analysis
- Effectively grounded
- Pre-construction harmonic analysis
- Post-construction harmonic metering and analysis
- Ground grid step, touch, and ground potential rise
- Voltage flicker
- Transient overvoltage (TOV)
- Protective coordination
- Zero-voltage ride-through/PRC-024
- Dynamic analysis
- Reactive power compensation sizing

### Transmission

- Economic conductor
- Insulation coordination
- Conductor rating and selection
- Corona/audible noise/EMF
- Parallel circuit analysis
- AC interference
- FEA analysis
- 5 mA

### Generator Interconnection

- Interconnection capacity screening
- Utility/ISO interconnection
- Interconnection process support or management
- Interconnection application completion
- Project modeling
- Transient and dynamic stability
- Power flow and contingency analysis
- Economic conductor analysis
- Preliminary design evaluation
- Small-generator interconnection
- Renewable project economic sizing
- Battery energy storage system feasibility

### Substation

- Fault current
- Arc flash
- Transformer energization
- Capacitor bank switching
- Transient recovery voltage (TRV)
- Current-limiting reactor sizing
- Grounded system

### Software Capabilities

- Aspen Oneliner
- Aspen Power Flow
- Aspen Line Constants
- AutoCAD
- CDEGS
- CYME CYMCAP
- EasyPower (Short circuit, load low, harmonics)
- EMTP-RV
- ETAP
- ETAP ArcFault Module
- PSSE (load low and dynamic)
- PSCAD
- Milsoft WindMil
- PLS-CAD
- PSLF
- TARA
- TFLASH
- SKM Power\*Tools
- WindIGS

## DESIGN & ENGINEERING

We put our vast knowledge and experience to work for you, assisting from conceptual design through detailed design and construction support. Ulteig's designs are context-sensitive and cost-effective. They strive to balance the competing needs and desires of the clients and end users.

We offer detailed design work, development and review of design calculations, selection and design implementation. Our goal is to provide solid commitment through unmatched client services and create a positive experience for our clients.





## SUBSTATION

Ulteig provides a full scope of services to ensure that new and existing substation facilities meet the highest level of safety and quality standards. We have successfully engineered and designed more than 1,000 high-voltage substations, switching stations and interconnect stations – from 12.5 kV to 500 kV – for investor owned utilities, cooperatives, municipalities, contractors and developers.

In addition to our core services of substation engineering design, we also offer SCADA and network design/programming and on-site integration (system integration), relay programming and event analysis, grid modernization and power system studies.

### Expertise

- Project scoping
- Preliminary arrangement
- Site selection
- Siting and permitting support, including photo renderings
- Facility studies
- Construction estimating and support
- Grading design
- Control equipment enclosure design and specification
- Auxiliary power system design
- Station battery system sizing
- Fault coordination studies
- Electrical control and design
- Physical design
- Structural steel design
- Material ordering, tracking and expediting
- Equipment specifications
- Programmable Logic Controller (PLC) and Human-Machine Interface (HMI) programming
- Protective relay settings developments
- System control and data acquisition (SCADA) and network design
- Spill prevention, control and countermeasure (SPCC) plan
- Stormwater pollution prevention plan (SWPPP)
- Event analysis and evaluation
- Lightning protection
- Grounding
- 3D design



***Our engineers test communications, I/O and programs/configurations in our **ADVANCED ENERGY LAB (AELab)**, a controlled environment designed to mimic multiple substation configurations.***

## **SYSTEMS INTEGRATION**

Ulteig defines Systems Integration as the ability to incorporate data and control of sub-system equipment from multiple vendors and bring together into a single unified system that meets the owner's operational and regulatory needs. Our team of System Integration professionals offers an extensive set of Supervisory Control and Data Acquisition (SCADA) and networking design services to owner/operators who need a reliable communication network capable of providing customized data, monitoring and control.

Our on-site AELab enables us to identify possible failures prior to implementation, develop efficient testing procedures and provide foresight to the experienced on-site engineering crew.

Our services can be mapped out as part of an upfront collaborative effort on a greenfield site or as additions to an existing site. Our experts work with you to deliver a customized solution that meets your specific needs.

### **Expertise**

- SCADA Design & Integration
- RTU Programming
- Network Design & Integration
- Custom HMI Display Development
- Historical Data Collection & Custom Reporting
- System Event Alerts
- Alarm Scheme Design & Integration
- OPC Data Integration
- Synchrophasors
- Custom Coding
- Trending Display Configurations
- System Integration Support
- Data Analytics

## 230KV TRANSMISSION LINE STORM DAMAGE SUPPORT

■ Lifeline Sector: Power | Location: Fossum, MN

In 2018, a severe weather event took 70 transmission structures down and placed 12.5 miles of 230kV transmission line out of service. When the firm that had been doing the prior design work was not able to meet the requested timeline for the rebuild, Minnkota Power Cooperative, the electrical generation and transmission cooperative who owned these assets, reached out to Ulteig instead.

Ulteig worked quickly to assemble a team, and in five weeks, completely re-designed the line while the existing conductor and structures were being demolished. The new design consisted of wood pole H-frame tangents, guyed wood three pole deadends and an increased number of terminal dead end structures to minimize service loss from future tornado and severe straight-line wind gusts.

In addition to design, Ulteig also took the lead on construction staking and generated the specifications and bid documents for the construction of this project.

Ulteig's ability to be nimble, responsive and pool resources quickly enabled the speedy restoration of this transmission line against a tight project timeline.



## TRANSMISSION

**Ulteig has a long history of surveying and engineering AC and DC transmission lines for public and private clients. From the 34.5kV subtransmission line to the 500kV EHV line, from routing and permitting to survey, right-of-way acquisition, detailed design and construction management, we have the experience to handle all aspects of the process.**

**Ulteig's designs are timely, cost-effective and meticulously meet client standards. Ulteig's goal is to provide solid commitment through unmatched client services and to create a positive experience for our clients.**

### Expertise

- Permitting assistance, including photo renderings
- Scoping
- Transmission routing
- Estimates
- Transmission line design
- Design criteria preparation
- Facility studies
- Shielding studies
- Electromagnetic field (EMF) studies
- Grounding studies
- Underground design
- Audible Noise (AN) studies
- Steel design
- Lattice tower analysis
- Foundation design
- Transmission line reconductors
- Optical Ground Wire (OPGW) replacements
- Line uprating studies
- Structure analysis
- Stormwater pollution prevention plans (SWPPPs)
- Material specifications
- Material procurement support
- Construction specifications, management, observation and support



## DISTRIBUTION

With the advent and growth of distributed energy resources, smart grids and smart meters, there is a significant need across the U.S. to ensure distribution systems are ready to handle more dynamic and variable conditions and loads. Additionally, aging infrastructure and more significant and frequent weather events are driving demand for greater system reliability and resiliency.

Getting its start providing distribution services to rural North Dakota 75 years ago, Ulteig has the history and expertise to help clients prepare for these changes. We deliver comprehensive solutions for the design, implementation and utilization of robust distribution systems.

### Grid Modernization

- Improved distribution grid controls
- Increased automation systems use
  - Advanced Distribution Management Systems (ADMS)
  - Advanced Grid Intelligence & Security (AGIS)
  - Integrated Volt/VAR Optimization (IVVO)
  - Fault Location Isolation and Service Restoration (FLISR)
- Increased visibility of systems
  - Additional data points
  - Phasor measurement units
  - Advanced Metering Infrastructure (AMI)

### Planning & Analysis

- GIS mapping
- Power quality studies
- Load flow studies
- Volt/VAR compensation
- Arc flash studies
- Interconnection studies
- Coordination studies
- Rate studies
- Injection studies
- Loss reduction studies

### System Hardening

- Design criteria development
- Full structure analysis and design
- Review of existing system and recommendations for system hardening
- Review of outage data and design standards recommendations
- Underground design

### Field Design & Staking

- Basic surveying
- Construction contract administration
- Easement acquisition
- Joint-use staking and make-ready surveys
- Line inspection
- NESC and utility specifications
- Permitting
- Protection/basic sectionalizing design
- Sizing transformers and conductors
- Material coordination
- Underground line design and subdivision layout
- Overhead/pole-line structure design and layout



## SYSTEM-WIDE UPGRADES

■ **Lifeline Sector: Power | Location: Wisconsin**

As part of a move to enable smarter monitoring and control of electric distribution systems, Alliant Energy approved funding of \$28 million over five years to address five different Supervisory Control and Data Acquisition (SCADA) initiatives. One of the first to take effect is the replacement of legacy remote terminal units (RTU's) for Alliant Energy's subsidiary, Interstate Power and Light Company (IPL).

Having recently completed a metering replacement portfolio project for Alliant in Minnesota, Ulteig was the logical choice to help manage these large-scale, multi-site RTU replacement projects.

For each RTU replacement, Ulteig is preparing a scope of work (SOW) and design document package and providing preliminary planning phase and design. The preliminary phase includes site visits, consultations with engineers and the formulation of SOW documents for each of the 85 RTUs to be replaced. The design phase commences upon approval of each SOW. Ulteig is also responsible for project management services, such as consistent stakeholder coordination, comprehensive project planning and the management of all key project components to ensure success.

Much coordination is taking place to meet the requirements for a project of this scale and to meet the overall execution of the schedule. Ulteig currently has three engineers working on two sites at a time, meaning six sites are completed in the first round of scoping before those sites are turned over to the design team.

This approach has equipped Ulteig to get through 18-20 scopes and 12-13 designs throughout the first year. The goal is to complete 80 sites over the next three to four years, or about twenty sites per year.

## ND 1804 REHABILITATION

■ **Lifeline Sector: Transportation**

**Location: New Town, ND**

Ulteig was hired by the North Dakota Department of Transportation (NDDOT) to complete the NEPA and design for the ND 1804 Rehabilitation project near Tioga, ND. Ulteig's role in this project included completing the Environmental Assessment, USACE coordination, survey, right-of-way acquisition, traffic analysis, hydrologic and hydraulic analysis, alternatives analysis, roadway design and final design. Ulteig developed multiple alternatives to meet NDDOT's goal of increasing the structural capacity of the highway.

The alternatives during planning included a major rehabilitation HMA structural overlay with widening, a major rehabilitation mine and blend with widening, a full reconstruction and several different alignments. The existing roadway had 12 curves with deficient superelevations, five deficient horizontal curves and 15 deficient vertical curves. The preferred alternative consisted of a five-inch HMA overlay with widening. Sections throughout the corridor were fully reconstructed to correct vertical curvature that did not meet current design standards. Turn lanes were added at multiple intersections. North and southbound passing lanes were added along sections of the corridor, and superelevation corrections were also implemented to correct several horizontal curves. Truck inspection lanes were also installed and a bridge was replaced with a box culvert. NDDOT originally scoped the project budget at approximately \$50 million. Ulteig was able to implement innovative, cost-effective design solutions to the project resulting in a low bid of \$24.4 million, resulting in cost savings to NDDOT of over \$25 million.

### DID YOU KNOW?

*Ulteig has completed more than \$122 million in construction administration for the North Dakota Department of Transportation over the past six years.*

## ROADS & HIGHWAYS

Ulteig is an advanced firm that stays attuned to cutting-edge practices and the community elements of transportation facility development. We understand that facility planning and design must be environmentally friendly and sustainable, and our many private sector and governmental clients find us responsive and time conscientious. We are committed to effective and continuous communication with our clients and involved stakeholders to promote solutions that are supported by area staff and elected officials.

### Planning

- Traffic analysis
- Corridor studies
- Site impact analysis
- Multi-modal plans
- Environmental documents
- Long-range transportation plans
- Public participation and consensus building

### Design

- Structures and bridges
- Water resources, drainage and utilities
- Multi-use recreational trails
- Noise walls
- Roundabouts
- Streets and highways
- Traffic signals and lighting
- Reconstruction and rehabilitation
- AutoCAD and MicroStation
- Construction traffic control and detour plans
- Right-of-way acquisition

### Construction

- Project management
- Bidding phase services
- Shop drawing review
- Construction surveying
- On-site construction observation
- Records and as-builts
- Project close-out

# MUNICIPAL

Ulteig helps communities develop and manage their infrastructure and resources by connecting technical expertise to the vision of community leaders and their constituents. We serve a community's municipal engineering needs by providing services that are beyond typical engineering design solutions. Our approach centers on understanding a client's vision and objectives. Ulteig works closely with communities to preserve their resources and distinct characteristics. Together, we develop a path to success.

Our goal is not just to help clients successfully complete their projects, but to establish a long-term partnership. We have engineers, surveyors and technicians who are qualified to serve a city's engineering needs. No matter the size, we can take a project from concept to completion while incorporating specialized knowledge and capabilities.

## Engineering

- Construction document preparation
  - Water services
  - Wastewater services
  - Utility rehabilitation
  - Street rehabilitation
  - Land development/subdivisions
  - City maps and utility records
  - Maintenance assistance
  - Permit applications
- Studies and reports
  - Capital improvement plans
  - Preliminary design studies
  - Facility plans
  - Feasibility studies
  - Hydrology and hydraulic analysis

## Environmental

- 404 permit applications
- Erosion control designs
- Stormwater Pollution Prevention Plans (SWPPPs)
- Wetland delineation, mitigation and restoration

## Financial

- Annual budgets
- Capital budgets
- Grant and loan assistance
- Improvement bond determinations

## Planning

- Capital improvement planning
- Comprehensive planning
  - Growth projections
  - Infrastructure
  - Land use
  - Transportation
- Environmental assessment worksheet
- Ordinances and policies

## MAIN AVENUE WEST & SOUTHWEST AREA UTILITY & STREET IMPROVEMENTS

■ Lifeline Sector: Transportation | Location: Frazee, MN

Ulteig provided the City of Frazee preliminary and final design, bidding services, contract administration, construction observation and staking and wage compliance reviews for the replacement of aging water and sanitary sewer mains for a 20-block area within the City. Ulteig also completed the replacement and reconstruction of sections of storm sewer and roadway.

For this \$1.8 million project, Ulteig assisted the City with funding applications for the Clean Water Revolving Fund (CWRF) and the Drinking Water Revolving Fund (DWRP) through the Minnesota Public Facilities Authority (PFA). Of the total project cost, approximately \$1.2 million was eligible for PFA funding. From that eligible amount, approximately \$900,000 came in the form of principal forgiveness loans (grant), and the rest as a low-interest loan at 1% for 30 years. In support of the funding requests, Ulteig prepared cost estimating and cost breakdowns and provided the City with Equivalent Residential Unit (ERU) calculations for their sewer and water usage. The ERUs are used by the funding agency to determine project affordability.

Construction was completed in the summer of 2018. This project not only improved aging and failing infrastructure but provides a lasting solution for the City and its citizens.



*“Our City Engineer and his team have always been able to answer our questions and address our concerns. They are simply a talented, caring and great team to work with.”*

**Denise Anderson**  
City Administrator of Frazee, Minnesota

## DID YOU KNOW?

Ulteig has assisted in securing over \$39 million in infrastructure funding over the last five years.

## WATER RESOURCES

At Ulteig, we are experts in water resources engineering and the field of hydrology and hydraulics. Our professionals assist public- and private-sector clients in managing stormwater runoff and surface water resources to sustain or improve water quality, minimize flooding and address regulatory challenges. Working on projects from simple drainage design to major flood control works demonstrates our ability to customize projects or work to fulfill your needs. We integrate natural elements into civil design and look to natural hydrologic systems as inspiration for our constructed solutions.

### Stormwater Compliance & Water Quality

- Urban stormwater modeling
- Rural drainage modeling
- Stream modeling
- Lake and reservoir modeling
- Sanitary sewer hydraulic modeling
- Dam and levee failure analysis

### Hydrologic & Hydraulic Modeling

- Urban stormwater modeling
- Rural drainage modeling
- Stream modeling
- Lake and reservoir modeling
- Sanitary sewer hydraulic modeling
- Dam and levee failure analysis

### Watershed Management

- Stormwater and surface water management plans
- Comprehensive sewer plans
- Development review and code compliance
- Operation and maintenance plans
- Risk assessment
- GIS mapping

## WATER & WASTEWATER

Ulteig's water and wastewater practice has helped a growing list of public and private clients meet the challenges of delivering potable water to their communities and clean water to the environment. Population growth, climate change, regulatory mandates and aging water and wastewater infrastructure are some of the biggest challenges facing society today.

Our engineers, technicians and operators provide the experience and innovation to develop dependable water and wastewater infrastructure solutions. Our specialists complete a full range of planning, design and operational services to help you overcome the challenges facing your community.

### Specialized Water Services

- Water distribution modeling/analysis
- Fire flow assessments
- Distribution system field testing
- Instrumentation and controls
- Vulnerability assessments
- Regulatory compliance
- Rate studies
- Funding assistance
- Operations consulting

### Water Treatment

- Facility planning
- Process optimization/audits
- Water treatment facility design
- Granular filtration
- Softening
- Iron and manganese removal
- Chemical feed
- Membrane systems
- Disinfection
- Residuals management

### Water Distribution

- Master planning
- Capital Improvement Plans (CIPs)
- Water storage facilities
- Pumping stations
- Transmission mains
- Distribution mains
- Regional systems
- Corrosion control

### Water Supply

- Ground water wells
- Surface water sources
- Intake structures
- Horizontal collector wells
- Alternate water supplies

### Conveyance

- Pump station design
- Pump station optimization and rehabilitation
- Flow control structures
- Inverted siphons

## WATER & WASTEWATER IMPROVEMENTS

■ Lifeline Sector: Water | Location: Mercer, ND

As the city engineer, Ulteig has been working with the City of Mercer to develop solutions for water and wastewater infrastructure problems within the community for the last three years. As part of this effort, Ulteig and the City identified three areas of concern, including overland flooding near the City's Wastewater Treatment Facility (WWTF), water supply and storage and water distribution. Ulteig assisted in securing two grants from USDA Rural Development and the Drinking Water State Revolving Fund to support preplanning and project funding.

### DID YOU KNOW?

*Ulteig was featured in the March 2018 North Dakota Water Magazine for our work with the City of Mercer, North Dakota and our contribution to improved water quality.*

### **Specialized Wastewater Services**

- Sanitary sewer system modeling
- Smoke/dye testing
- Pump performance testing
- Instrumentation and controls
- Rate studies
- Funding assistance
- Regulatory compliance
- Permitting
- Operations consulting

### **Wastewater Treatment**

- Stabilization ponds
- Activated sludge
- Attached growth systems
- Nutrient removal
- Disinfection
- Biosolids management
- Odor control
- Water reuse

### **Wastewater Collection**

- Master planning
- Capital Improvement Plans (CIPs)
- Inflow/infiltration studies
- Sanitary sewer evaluation studies
- Capacity, management, operation and maintenance compliance
- Sewer separation
- Trenchless technologies

### **Stormwater Conveyance & Storage**

- Pond and storm sewer design
- Rate control, extended detention and hydrograph management
- Energy dissipation
- Overland conveyance design
- Bank stabilization

### **Best Management Practice (BMP) Analysis & Design**

- BMP implementation planning
- BMP performance calculations and permitting
- Runoff water recycling strategies
- Erosion and sediment control

### **Wetland Services**

- Wetland delineation
- Wetland mitigation design and replacement plans
- Wetland studies/hydrology
- GIS wetland mapping

### **Hydraulic & Control Structures**

- Stormwater pumping stations
- Multi-stage outlets, control structures and diversions
- Bridge and culvert hydraulic assessments
- Agricultural control structures
- Dams, levees and flood walls

### **Economic Studies & Grants**

- Water resource grant applications
- Benefit/cost for hazard mitigation grants
- Stormwater utilities and rate studies
- Area and connection charges
- Capital improvement planning and budgeting

### **Floodplain Management & Analysis**

- Flood insurance rate studies
- Conditional letters of map revision (CLOMR)
- Letters of map revision (LOMR)
- FEMA mapping
- Digital flood insurance rate maps (DFIRMs)
- Flood elevation certificates
- Post-event urban flood studies
- Flood damage reduction
- Flood control projects
- Flood preparation and planning
- Post-event recovery and analysis

### **Water Supply and Storage Improvements**

The condition of the City's current water storage building, coupled with poor water quality and lack of flow, led to Ulteig analyzing the financial impact of constructing a new water treatment facility instead of hooking up the McLean Sheridan Rural Water System. Based on construction and future operation and maintenance costs, it was determined that rural water was the best fit for the City. Ulteig worked closely with the City and McLean Sheridan Rural Water to secure the necessary easements and agreements for the City to connect into the rural water system.

In addition to the rural water connection, this project included renovating and upgrading the City's existing water storage building. These improvements included the installation of new poly tanks, process piping, process pumps and controls to make a more efficient maintenance system for the City of Mercer to operate. In addition, improvements to the building were made, which included new lighting, heating, dehumidifiers, overhead garage door and other general updates. These improvements also increased the City's water storage capacity to 11,000 gallons.

### **Water Distribution Improvements**

The City's existing water distribution system is comprised of 1.5-inch to three-inch diameter mains that were installed in the 1960s. Due to the size and age of these, the City has experienced significant issues with fire flow and lack of water pressure. This project includes the replacement of the existing watermain and the installation of new watermain loops that are aimed to improve pressure and flow throughout the City.

## DID YOU KNOW?

Ulteig serves as the Airport Engineer for seven airports in the upper Midwest.



## GENERAL AVIATION

Ulteig's aviation tradition dates to 1970, with a project that pioneered the application of slipform technology for concrete runway overlays. That same year, we were instrumental in obtaining the first airport development grant awarded in the United States. Today, we provide total aviation engineering and planning services to air carrier airports, general aviation airports and military installations. Our team includes engineers, planners and scientists who provide effective solutions by drawing on each other's strengths. We partner with our clients to leverage their current facilities and future capital improvements to the greatest possible advantage for the communities they serve.

### Planning

- Airport layout plans
- Master plans
- GIS
- Part 77 obstruction studies
- Sign plans
- Site development plans
- Terminal planning

### Environmental

- Environmental assessments
- Categorical exclusions
- Wetland mitigation plans
- Stormwater Pollution Prevention Plans (SWPPPs)
- Surface water management

### Design

- Airside: runways, taxiways, heliports, apron lighting, airfield lighting, drainage, guidance signs and navigation aids
- Landside: access roads/parking, fueling facilities, hangars, sanitary sewer water and storm sewer

### Construction

- Administration
- Observation
- Surveying
- Airport Improvement Plan (AIP) grant close-out

## COMMERCIAL AVIATION

Ulteig has worked with a number of commercial airports in our region and continues to offer full-service aviation capabilities. We currently serve as the engineer for the Minot International Airport and program manager for the construction of the greenfield Williston Basin International Airport (XWA).



## **WILLISTON BASIN INTERNATIONAL AIRPORT**

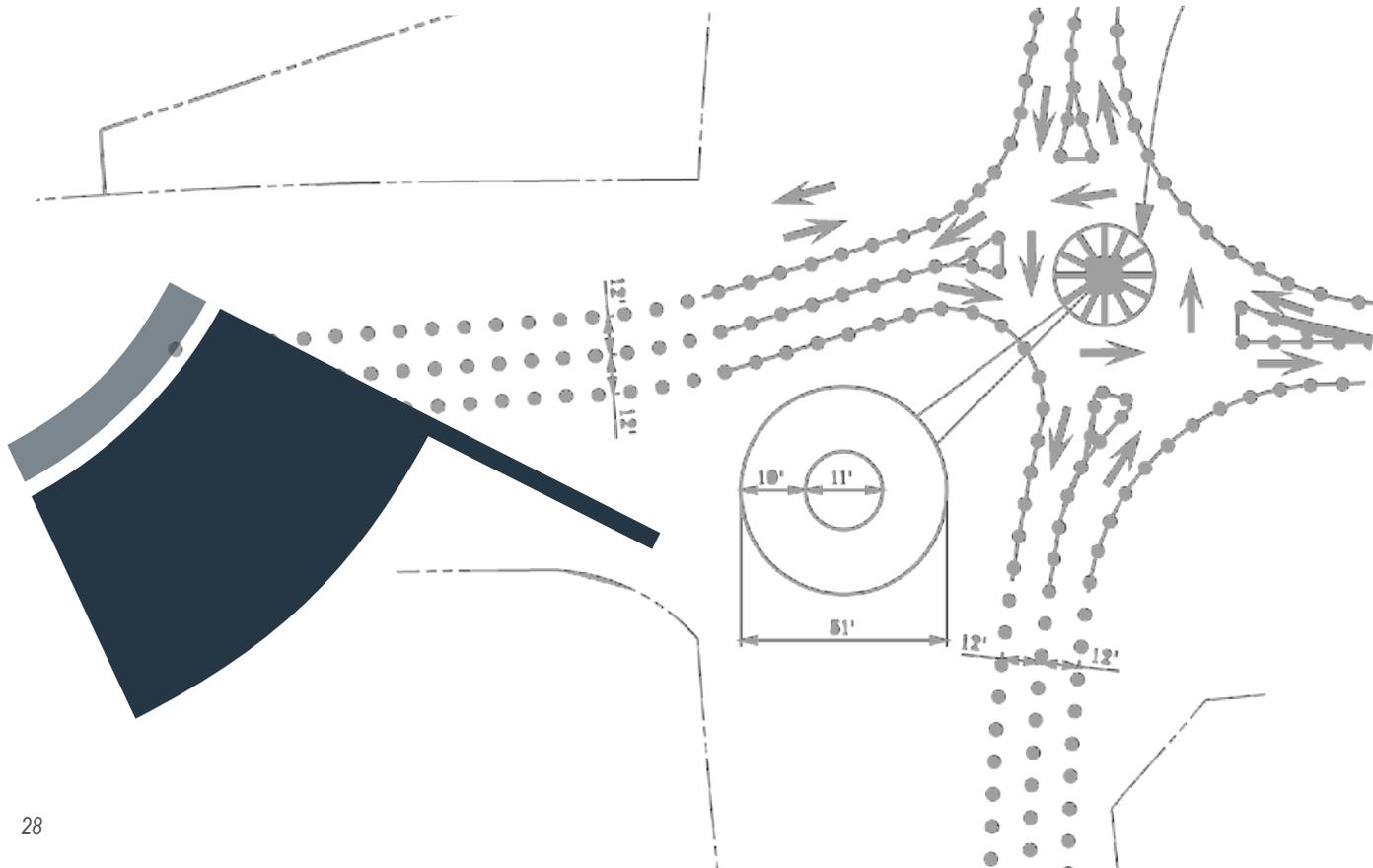
■ **Lifeline Sector: Transportation | Location: Williston, ND**

Williston Basin International Airport (XWA) is a greenfield airport that will replace Williston's current airport, Sloulin Field International Airport (ISN), which opened in 1947. This project is unique, as commercial greenfield airports are rare; the last one completed in the US was in January 2011.

Planning for the new \$230 million airport began in 2012 and broke ground in April of 2017. Prior to the groundbreaking, Ulteig started working with the City in 2015 in identifying and developing solutions to manage a project of this caliber and high public profile. Ulteig is serving as the Program Manager, responsible for managing approximately 35 design and construction projects, numerous other contracts, consultants, contractors and all grants, and for coordinating all government agencies. XWA is scheduled to open in October 2019.

# CONSTRUCTION & PROJECT MANAGEMENT

Our team manages the steps, schedules, planning, engineering and budgets from one central control.



As a firm with our own rigorous Quality Management System, we strive to exceed our clients' expectations and provide deliverables that meet specifications.

### **DID YOU KNOW?**

*Ulteig was given an ACEC Colorado Honor Award for State Highway 340 and Redlands Parkway Roundabout in Grand Junction, Colorado.*

# CONSTRUCTION MANAGEMENT

Our goal for every project is to meet the completion date, control the cost, achieve high quality and keep clients informed of construction progress. Ulteig's Construction Managers monitor all construction activities, identify and manage risks, utilize industry best practices, collaborate with stakeholders and execute and monitor the uniform policies and procedures as established by our clients. In addition, we take responsibility for scheduling, cost reporting, the RFI process, conflict resolution, quality management and the general condition of major equipment deliveries. If required, we can also fulfill the role of onsite Resident Project Representative (RPR), acting as an extension of the project team and providing detailed daily inspection reports for project-specific tasks.

Our QA/QC service is implemented through a series of processes that assure each project activity is carried out in a method that meets our clients' expectations. Ulteig is highly proficient in QA/QC implementation and engaging contractors in the process.

## Expertise

- Contractor/subcontractor management
- Pre-construction meeting
- Quantity tracking
- In-field data logging
- Construction activity documentation
- Compliance with contract documents
- Quality assurance/quality control
- Third-party testing coordination
- Material verification
- Change order analysis and tracking
- Productivity analysis
- Safety/OSHA compliance
- Dispute avoidance and resolution



## STATE HIGHWAY 340 & REDLANDS PARKWAY ROUNDABOUT

■ Lifeline Sector: Transportation | Location: Grand Junction, CO

The State Highway (SH) 340 & Redlands Pkwy Roundabout project was created to improve the safety of the SH 340 & Redlands Parkway intersection, which experienced 28 accidents from 2010 to 2015, the vast majority of which involved rear-end and left-turning accidents. This \$5 million project included converting the existing signalized intersection to a roundabout, roadway resurfacing, pavement reconstruction, guardrail improvements, drainage improvements, sidewalk construction, ADA improvements and signing and striping. Ulteig's primary role included construction management services, providing the research and value engineering for the phasing using the temporary roundabout and assisting with public involvement for this highly publicized project. Ulteig's innovative use of a temporary roundabout helped expedite the project timeline, which has resulted in Ulteig and CDOT completing the project ahead of schedule and under budget.

# PROJECT MANAGEMENT

Successful project management begins by assessing and aligning with our clients' requirements and objectives, and culminates with safely delivering projects on time and on budget, despite all issues and obstacles that challenge that objective. Exceptional project management is distinguished by attentive and responsive communication with clients and stakeholders, perpetual proactive risk management and creative resolution of conflicts and issues. Ulteig project managers consistently deliver this value to our clients by employing sophisticated schedule modeling and project controls techniques coupled with expert judgment attained through years of experience delivering successful energy and infrastructure projects. Acting as the project owner's representative and advocate, Ulteig project managers leverage this expertise on behalf of our clients to consistently deliver unparalleled service and value that yields tangible results for the projects we manage.

## Expertise

- Coordination with stakeholders
- Qualitative and quantitative risk analysis
- Perpetual risk management
- Critical path schedule modeling
- Schedule scenario forecasting
- Project cost estimating
- Project budget development
- Project cost & cash flow forecasting
- Earned value analysis
- Contract administration
- Bid package preparation
- Architect/engineer/contractor selection
- Pay application processing
- Change order reviews
- Rfi management
- Issues tracking and resolution
- Procurement and logistics coordination
- Permit compliance
- Progress reports and meetings



## LIVE OAK WIND

■ Lifeline Sector: Renewables

Location: Schleicher County, TX

Live Oak Wind Project, LLC is a 200 MW wind energy generation facility owned by Engie North America, consisting of 76 SiemensGamesa 2.625 MW wind turbine generators.

Construction began in March 2018 but did not get off to a productive start. Engie looked to Ulteig for help getting the \$350 million wind project back on track.

Ulteig assumed the role of Owner's Engineer in May, stepping in quickly to develop a full, turnkey solution that included management of the Engineer, Procure Construct (EPC) balance of plant contractor and wind turbine supplier. Ulteig was also responsible for overseeing the procurement and commissioning of the turbine supplier agreement (TSA), main power transformer (MPT) procurement, independent engineer and owner's engineer coordination, ERCOT grid interface and compliance, utility transmission interconnection coordination and COD, closeout and acceptance activities.

Engie has reacted positively to Ulteig's quality of work and the level of dedication invested in making the Live Oak Wind project a resounding success.

Engie and Ulteig remain committed to a long-lasting relationship and have started collaborating on the Solomon Forks, East Fork and Seymour Hills wind projects. Four additional projects are planned for 2019.





Ulteig's Project Management Integrated  
Resource Team contributed to more than

**420 projects**  
in the last 3 years.

# ASSET OPTIMIZATION

Our team utilizes data analytics to derive intelligence that informs client business models, investment decisions and solutions that drive operational efficiency.



## **DID YOU KNOW?**

*Ulteig received the Grand Prize Award in the Energy Production Category of the American Council of Engineering Companies – Iowa 2019 Engineering Excellence Awards for our work developing a GIS Application Solution for Energy Distribution Projects.*

## SIGN REPLACEMENT DESIGN

Lifeline Sector: Transportation  
Location: Hanson County, SD

Working with the South Dakota Local Government Assistance Office within the South Dakota Department of Transportation (SDDOT), Ulteig inventoried all signs, delineators, object markers and hazards in the County, Township, and City right-of-way within Hanson County, South Dakota. Our team of experts designed sign replacements or additions to be compliant with MUTCD, federal law, state law, and SDDOT standards. Ulteig collected information on the signs including MUTCD sign code, sign size, sign height, post material, sign condition, sheeting type, date of install and anchor type. Existing inventoried items included 1,187 signs, 280 delineators and object markers, 210 hazards, 78 curves, 349 intersections and 347 participating culverts.

### Expertise

- Data discovery and asset assessment
- Data and asset inventory and migration
- Data sharing and integration
- Lifecycle management
- Analysis, reporting and planning
- Application development, hosting and maintenance

## ASSET OPTIMIZATION

Managing and optimizing assets has never been more important. At Ulteig, Asset Optimization focuses on using data, information, insights, technology and engineering to manage your day-to-day business needs as well as identifying and prioritizing strategic asset management, investment decisions and long-term planning. Our team of experts works with you to capture and use data to develop insights critical to determining an informed, prioritized asset management and investment roadmap for your business.

Asset optimization is important to large, complex infrastructure clients as well as less complex clients. We work with all clients, across all Lifeline Sectors.

### Asset Optimization Services

Ulteig offers solutions to help you improve your infrastructure management and optimization. Our solutions range from mapping your assets to providing you with tools to quickly and easily view your assets to developing a three-year roadmap for asset inventory, management and optimization. We provide you with valuable insights to help guide capital improvement investments and maximize your assets' life cycles.

### Data Sharing & Integration

Ulteig establishes the asset optimization platform to use across your organization. This involves leveraging GIS-centric web and mobile applications to provide you with quick and easy access to information and as a decision support tool. Ulteig can also integrate with other business systems such as a work order management system to ensure current data is available across your business systems.

### Inventory & Data Collection and Insight Development

Ulteig conducts GPS inventory collection and builds a GIS database of your assets. The asset database will capture and maintain the data and information important to assessing and managing your assets for day-to-day operations and for long-term planning. From the captured data and information, Ulteig identifies insights to inform your business planning.

### Discovery & Assessment

Ulteig works with you to evaluate existing data and systems and determine next steps.

### Analysis, Reporting & Planning

Ulteig offers lifecycle modeling, risk assessment and management, capital improvement planning, master planning, forecasting and long-term asset management and optimization planning.

### Application Development, Hosting & Maintenance

Ulteig will work with you to identify applications and data hosting solutions that will best fit your business needs.

# ULTEIG MAKES THE CONNECTIONS THAT MATTER MOST.

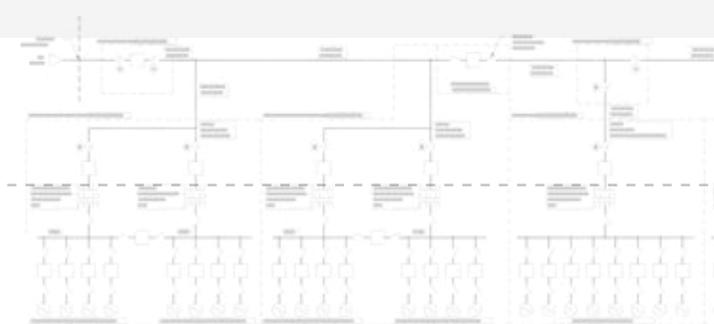
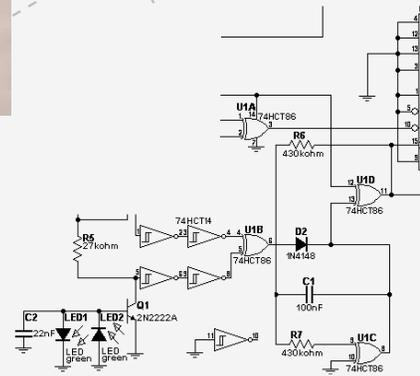


**A STRONG CONNECTION IS FOUNDATIONAL,** whether it involves wires, roads, pipes or people committed to working together for a common purpose. Ulteig generates the connections that strengthen infrastructure—planning, collaborating and creating reliable solutions for our clients and the communities they serve.



**FIRST, WE LISTEN** by connecting with all stakeholders and forming a clear understanding of their needs.

**THEN WE SOLVE,** connecting question to answer, aligning problem with expert. We draw on the varied skills of our team and collaborate to meet every challenge. We specialize in power, renewables, transportation and water, using a comprehensive approach as we build sustainable solutions.



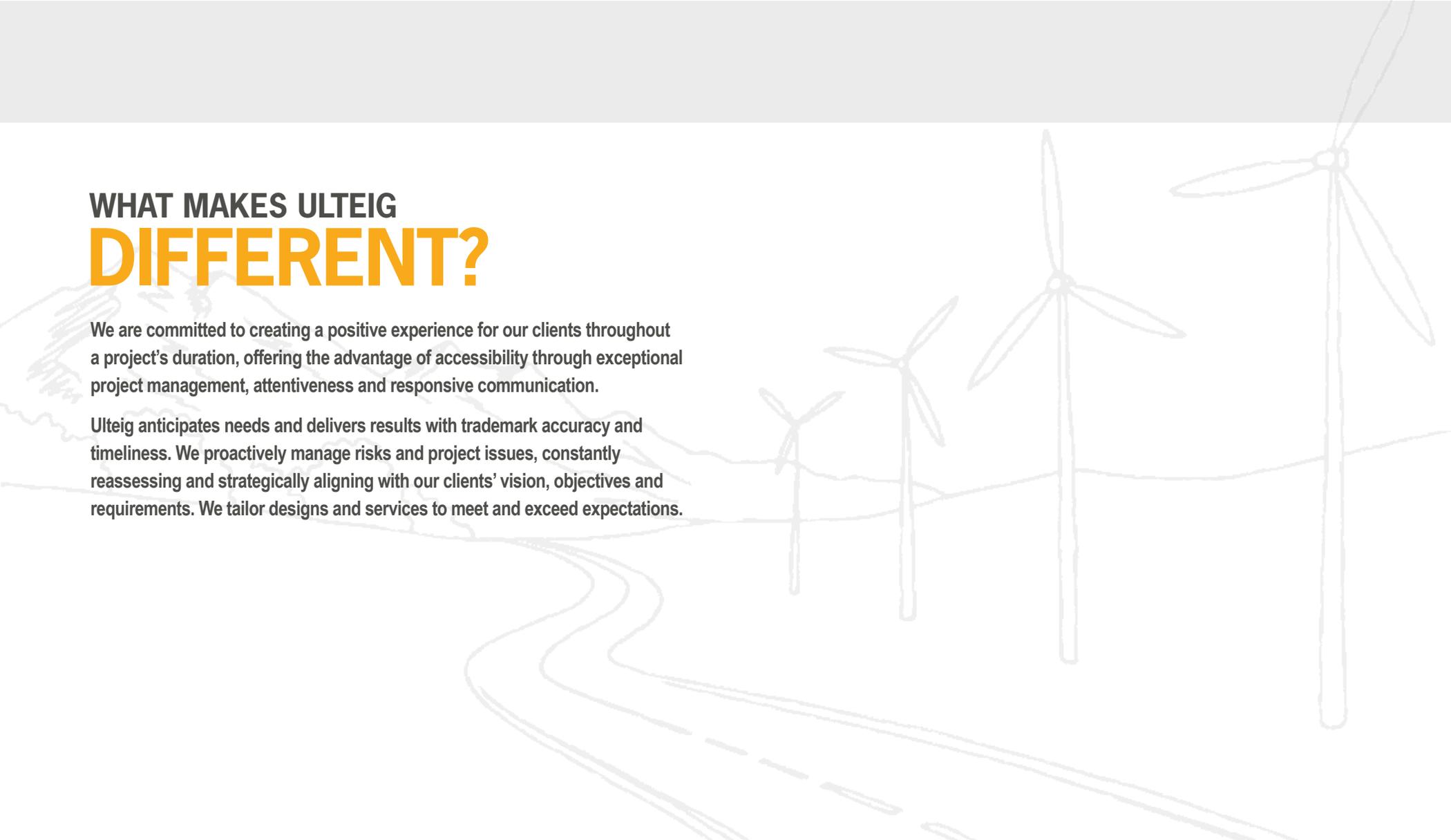
Ulteig



### **IT'S ALL ABOUT CONNECTING**



with clients and their needs. Throughout the process, we are accessible and transparent, listening and solving through the daily connections that are essential to this work. Our clients and their customers depend on these connections that ultimately bring essential services to millions. While our experience spans the nation, we maintain a hometown feel.



## WHAT MAKES ULTEIG DIFFERENT?

We are committed to creating a positive experience for our clients throughout a project's duration, offering the advantage of accessibility through exceptional project management, attentiveness and responsive communication.

Ulteig anticipates needs and delivers results with trademark accuracy and timeliness. We proactively manage risks and project issues, constantly reassessing and strategically aligning with our clients' vision, objectives and requirements. We tailor designs and services to meet and exceed expectations.

## ACHIEVE. GROW. COLLABORATE.

*For 75 years, we've built a culture focused on people – both our clients and our employees. We realize that a huge part of our success has relied heavily on the dedication and focus of our workforce; this is why we make investing in our employees a top priority. Being 100% employee-owned means we take our own success and the success of our clients personally.*

# WE LISTEN. WE SOLVE.®

Our tagline captures the essence of our unique position in the marketplace. “We listen” speaks to partnership, to becoming integrated in our clients’ business and truly understanding their needs. We are constantly listening. “We solve” is the promise we make to clients and their communities – we offer comprehensive, long-lasting solutions. This represents everything Ulteig stands for.



# BUILDING THE FUTURE

## PLANNING FOR TODAY.

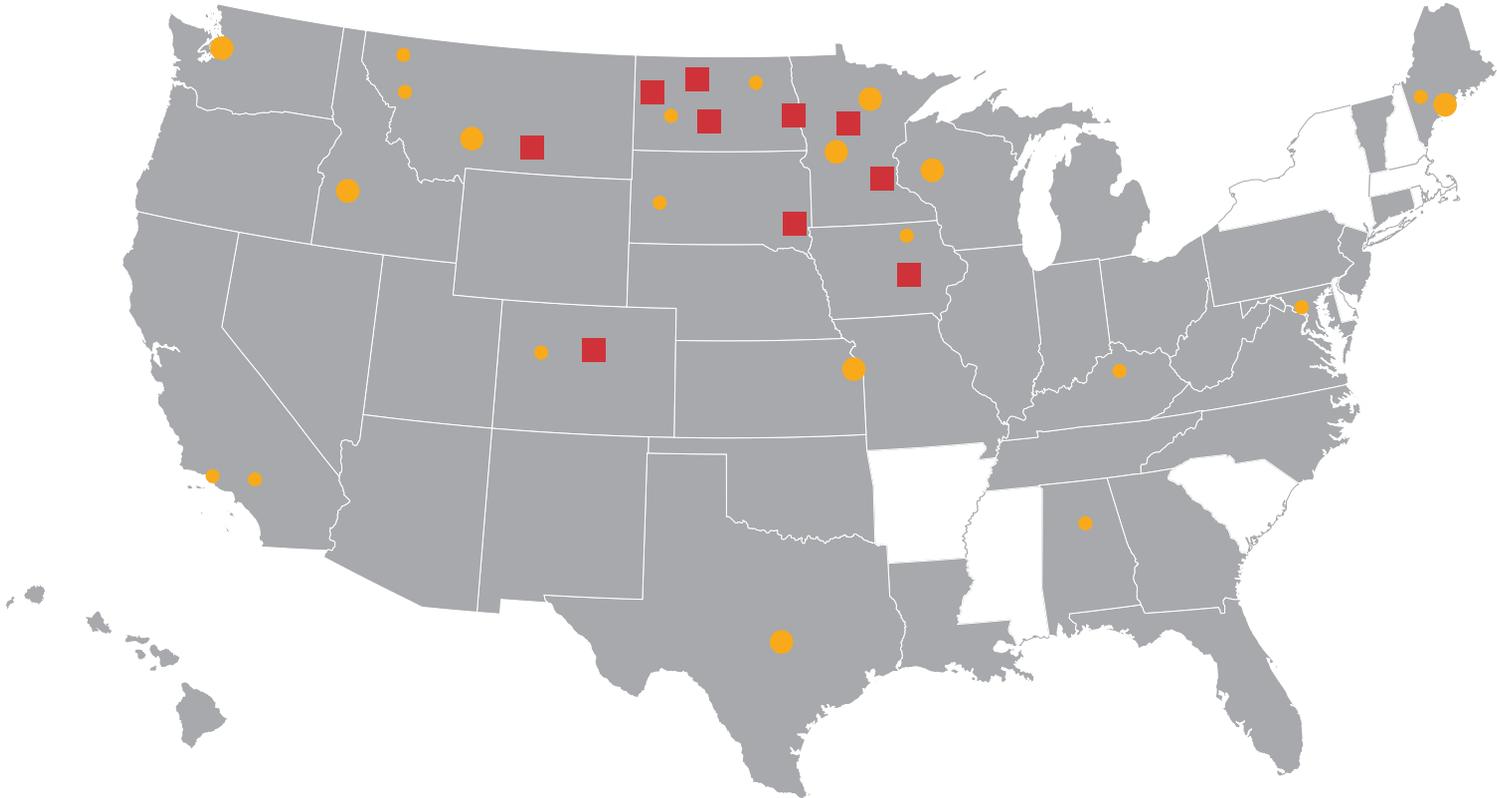
Even after a project is completed, we stay connected and informed about our clients and the communities in which they serve. We are a partner for the long term, always ready to collaborate and consult in ongoing ways and maximize the innovative solutions we've created together.

## PLANNING FOR TOMORROW.

Infostructure (using data/information to inform infrastructure investments) is becoming significantly more important to clients. Ulteig is undertaking the learning we need to facilitate these new connections. We're looking at how infostructure and infrastructure are coming together to drive more progressive, optimized solutions that will serve our clients well today and tomorrow.



# LOCATIONS



- Offices
- Satellite Offices
- Recent Projects

**■ FARGO, ND**  
 CORPORATE HQ  
 3350 38th Ave. S.  
 Fargo, ND 58104  
 PH: 701.280.8500  
 FAX: 888.858.3440

**■ DENVER, CO**  
 5575 DTC Parkway,  
 Suite 200  
 Greenwood Village,  
 CO 80111  
 PH: 720.873.5700

**■ BISMARCK, ND**  
 419 Riverwood Drive  
 Suite 201  
 Bismarck, ND 58504  
 PH: 701.258.6507

**■ MINOT, ND**  
 216 S. Broadway  
 Street, Suite 104  
 Minot, ND 58701  
 PH: 701.280.8500

**■ DETROIT LAKES, MN**  
 1345 Highway 10 W.  
 Suite A  
 Detroit Lakes, MN 56501  
 PH: 218.847.5607

**■ ST. PAUL, MN**  
 4285 Lexington Ave. N.  
 St. Paul, MN 55126  
 PH: 651.415.3800

**■ SIOUX FALLS, SD**  
 5701 S. Corporate Place,  
 Suite 1  
 Sioux Falls, SD 57108  
 PH: 605.323.2306

**■ WILLISTON, ND**  
 820 11th Street E.,  
 Williston, ND 58801  
 PH: 701.572.4172

**■ CEDAR RAPIDS, IA**  
 109 N. Center Point Road  
 Hiawatha, IA 52233  
 PH: 319.286.3000

**■ BILLINGS, MT**  
 2751 Enterprise Ave.  
 Suite 4  
 Billings, MT 59102  
 PH: 701.280.8500

**DID YOU KNOW?**

*With more than 440 employees and recent projects in 41 states, Ulteig's solutions span the nation.*



75  
Years



We listen. We solve.®

Ulteig is a leader in the engineering industry. In 2019, we celebrate 75 years of experience and reputation, driving reliable solutions. We are a team of forward-thinking, innovative experts who make critical connections, putting together the complex, multi-disciplinary strategies needed in today's changing world.

[Ulteig.com](http://Ulteig.com)