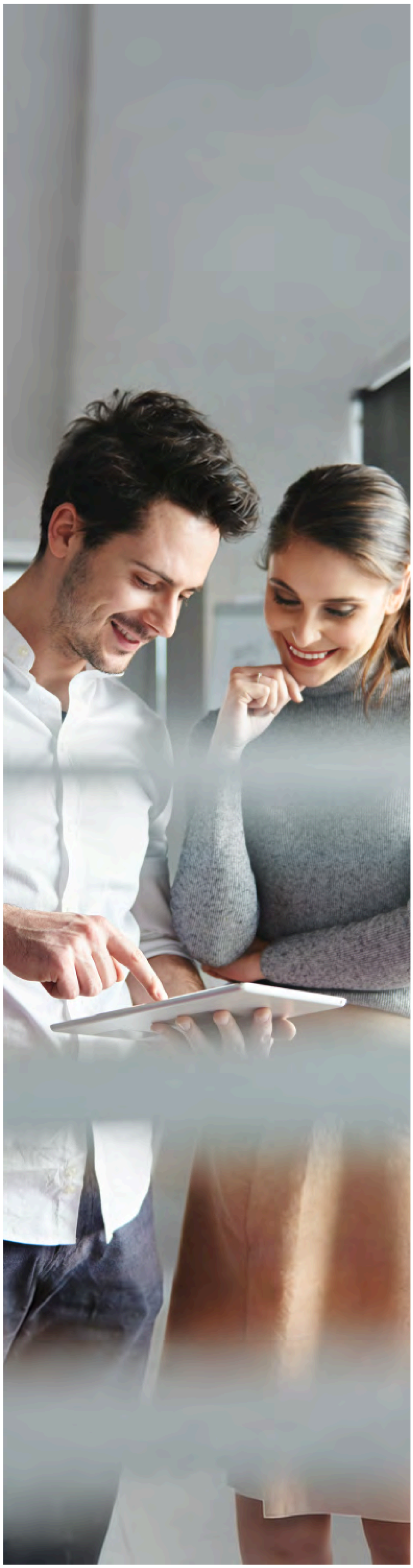
Ulteig

START TOGETHER. BUILD BETTER.

How Utilities Can Build **Better Early-Stage Decisions**



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Executive Summary

Utilities are making decisions in an increasingly complex environment. Load growth is accelerating, infrastructure investments are expanding and project timelines continue to compress. Teams must balance reliability requirements, regulatory obligations, permitting considerations, field conditions and budget constraints while developing projects that can withstand technical and stakeholder scrutiny.

In this environment, early decisions carry greater weight. Planning, field services and owner's engineering help utilities evaluate alternatives, identify constraints and establish the technical basis for investment decisions before significant capital commitments are made.

When key assumptions, field conditions and technical requirements are addressed early, utilities can reduce design risk, improve cost forecasting and advance projects with fewer late-stage scope adjustments.

Ulteig integrates planning expertise, field validation and owner-side advocacy to strengthen project justification and support more effective project delivery. By addressing technical, regulatory and site considerations before detailed design begins, utilities can make better-informed investment decisions and establish a stronger foundation for execution.





PLANNING

Define What Needs to Be Built, Why, Where and When

Every successful project begins with a clear understanding of what problem is being solved. Effective planning lets utilities evaluate load growth scenarios, assess system constraints, prioritize capital investments and develop defensible project justifications that can withstand regulatory and stakeholder scrutiny.

Planning establishes the information needed to answer some of the most important questions in project development.

- **What investments are most important?**
- **Which projects should be prioritized?**
- **How will future system conditions shape today's decisions?**
- **What alternatives should be considered before committing resources?**

With a strong planning foundation in place, utilities are better positioned to advance projects through reliable, cost-efficient engineering and execution. These validated insights provide a strong foundation for regulatory review, stakeholder alignment and internal prioritization.

Ulteig's planning services help utilities develop actionable, data-driven strategies that enable confident decision-making and long-term system performance. Rather than simply identifying potential projects, our teams build client understanding of why those projects matter, how they reinforce organizational objectives and where they fit within broader system needs.

The result is greater confidence that investments are aligned with actual system requirements and long-term objectives.

FEATURED PLANNING SERVICES INCLUDE

- Power system studies
- Energy market modeling
- System planning

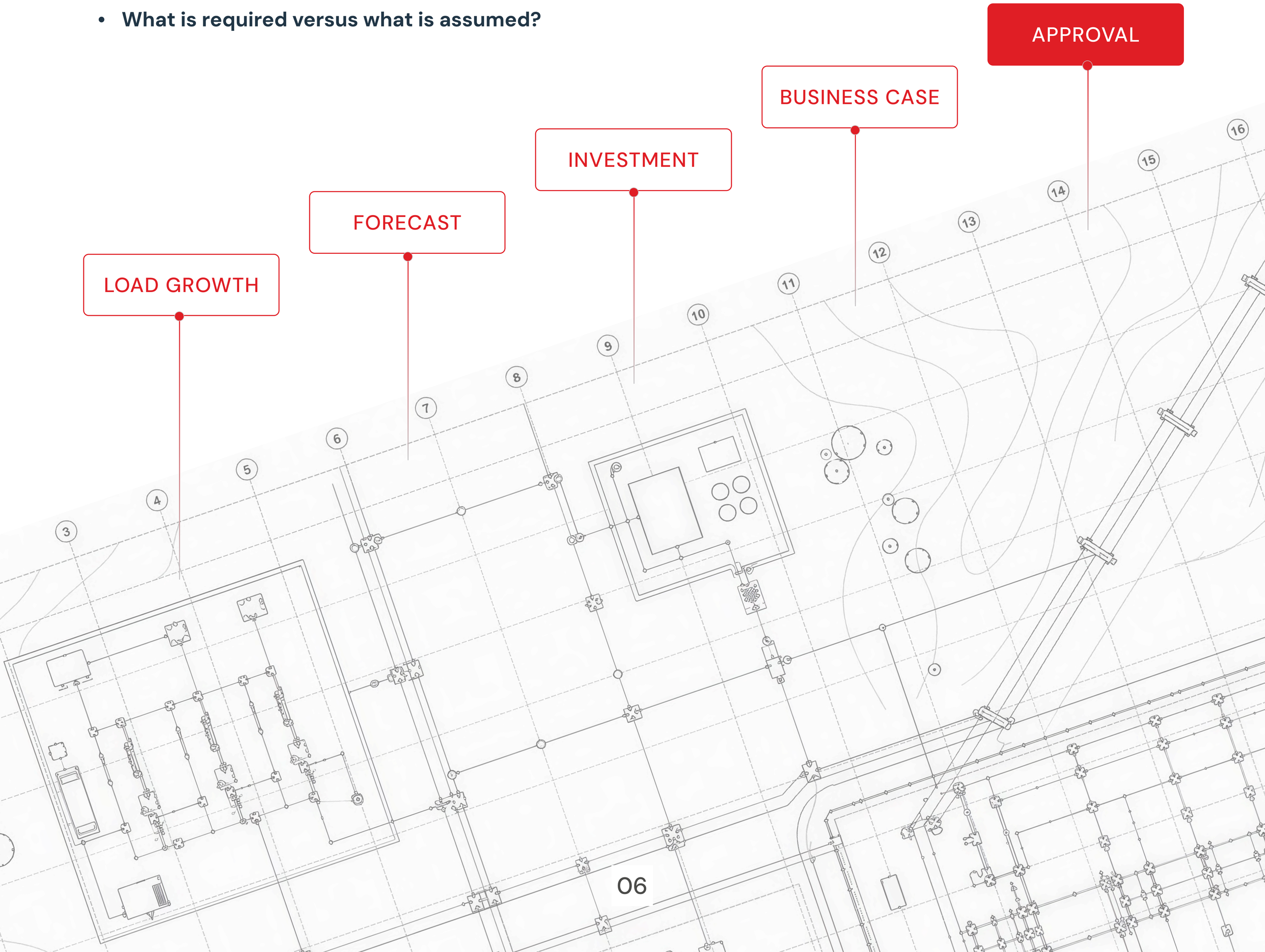
These services help utilities evaluate system conditions, forecast future needs, analyze potential scenarios and identify practical pathways forward.



Sound Analysis for Additional Support

For utilities experiencing rapid load growth, evolving generation portfolios or increasing planning demands, additional technical support can help teams accelerate studies, evaluate alternatives more thoroughly and build stronger business cases for capital investment. Planning is also where strategic alignment begins. Some questions are best addressed before projects move deeper into development, such as:

- **Are our load forecasts and system assumptions strong enough to reinforce investment decisions?**
- **Can we clearly justify this project internally and with regulators?**
- **What is required versus what is assumed?**



Clarity starts with understanding what matters most.

Through planning support that combines technical rigor with practical application, Ulteig enables utilities to establish a firm foundation for future investment decisions. When planning is done well, utilities gain more than a project roadmap. They gain confidence in the decisions that shape it.

FIELD SERVICES

Validate What's Possible Before Design Begins

Once planning establishes what should be built and why, the next step is defining how the project can move forward in the real world.

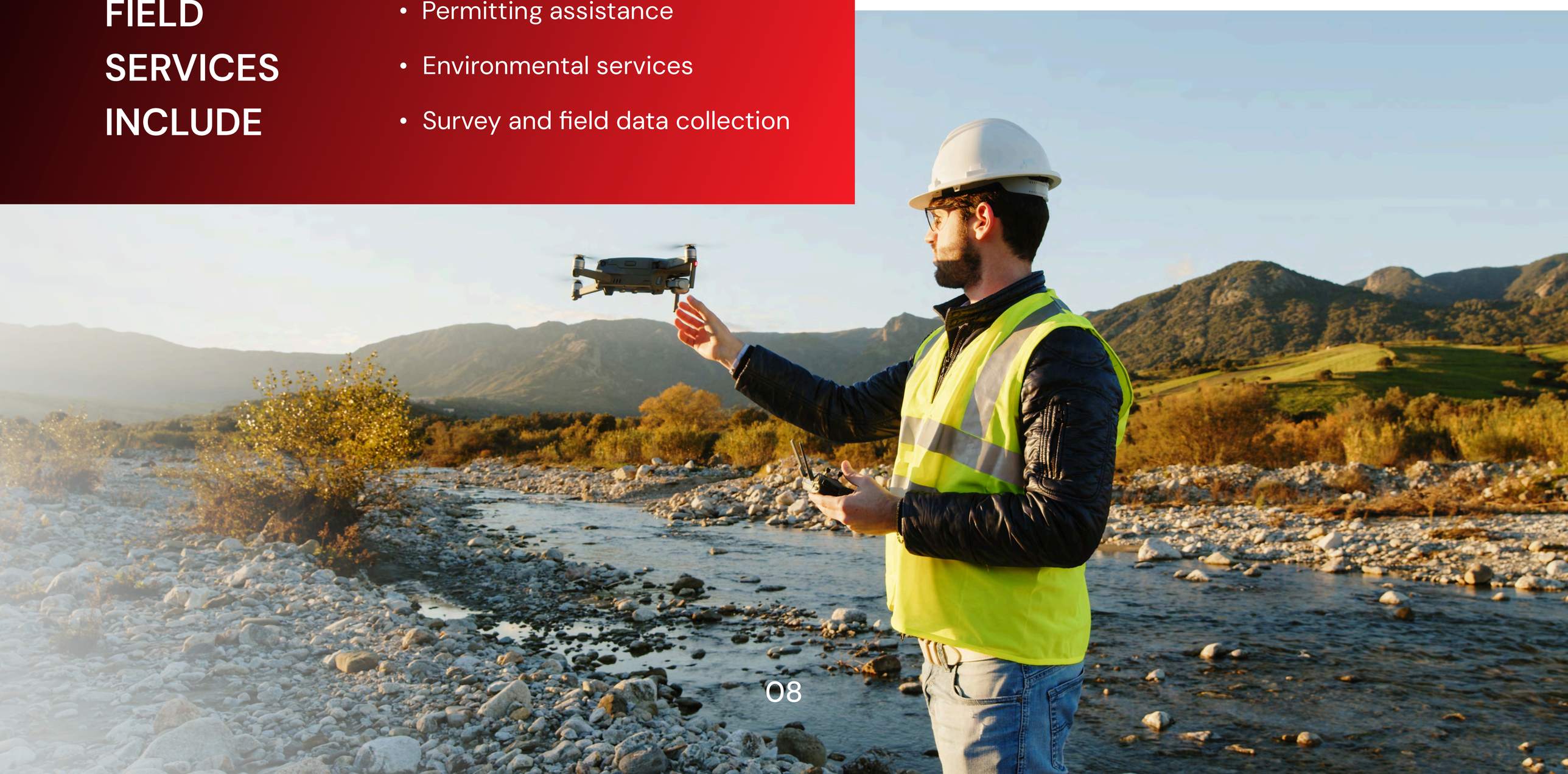
Even the strongest planning effort depends on accurate field information. Environmental considerations, permitting requirements, land ownership constraints and site-specific conditions all shape project feasibility. Identifying these factors early provides the information needed before design progresses and avoids committing resources to assumptions that may require adjustment later.

Ulteig's field services teams help utilities gather the information necessary to evaluate feasibility, identify obstacles and build a more complete understanding of project requirements.

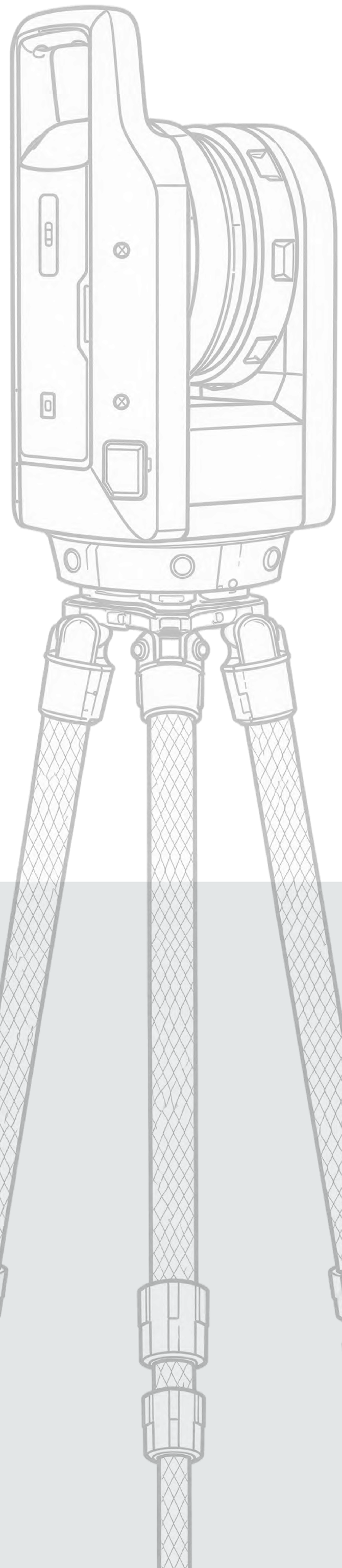
This work lets utilities recognize permitting, environmental, land ownership and constructability constraints before design progresses, reducing the likelihood of rework, schedule impacts and unexpected project costs.

FEATURED FIELD SERVICES INCLUDE

- Right-of-way services
- Permitting assistance
- Environmental services
- Survey and field data collection



Creating a Clearer Understanding



These services provide the field data and site intelligence needed to evaluate project feasibility, identify impediments and support engineering decisions with real-world conditions rather than assumptions.

For example, environmental evaluations can identify considerations that may influence siting, permitting or project timelines. Survey and field data collection provide accurate site information to enable future engineering activities. Right-of-way services help address property and access considerations that often play a significant role in project development. Permitting assistance enables utilities to navigate approval processes and regulatory requirements more efficiently.

Most importantly, field services bring project realities into view while there is still flexibility to act on them.

Utilities frequently need answers to questions such as:

- **Can this project be built where it is currently envisioned?**
- **What factors could influence cost, timing or scope?**
- **Which approvals are required and how should they be approached?**
- **What considerations could affect permitting, siting or land acquisition efforts?**



By addressing these questions early, utilities are able to make more informed decisions about project development and better protect the time, resources and effort invested before construction begins. These early evaluations provide a clearer understanding of project conditions before decisions become more complex to adjust.

That visibility enables utilities to move forward with greater confidence and a more complete picture of what lies ahead.

OWNER'S ENGINEERING

Guide Critical Decisions from Day One

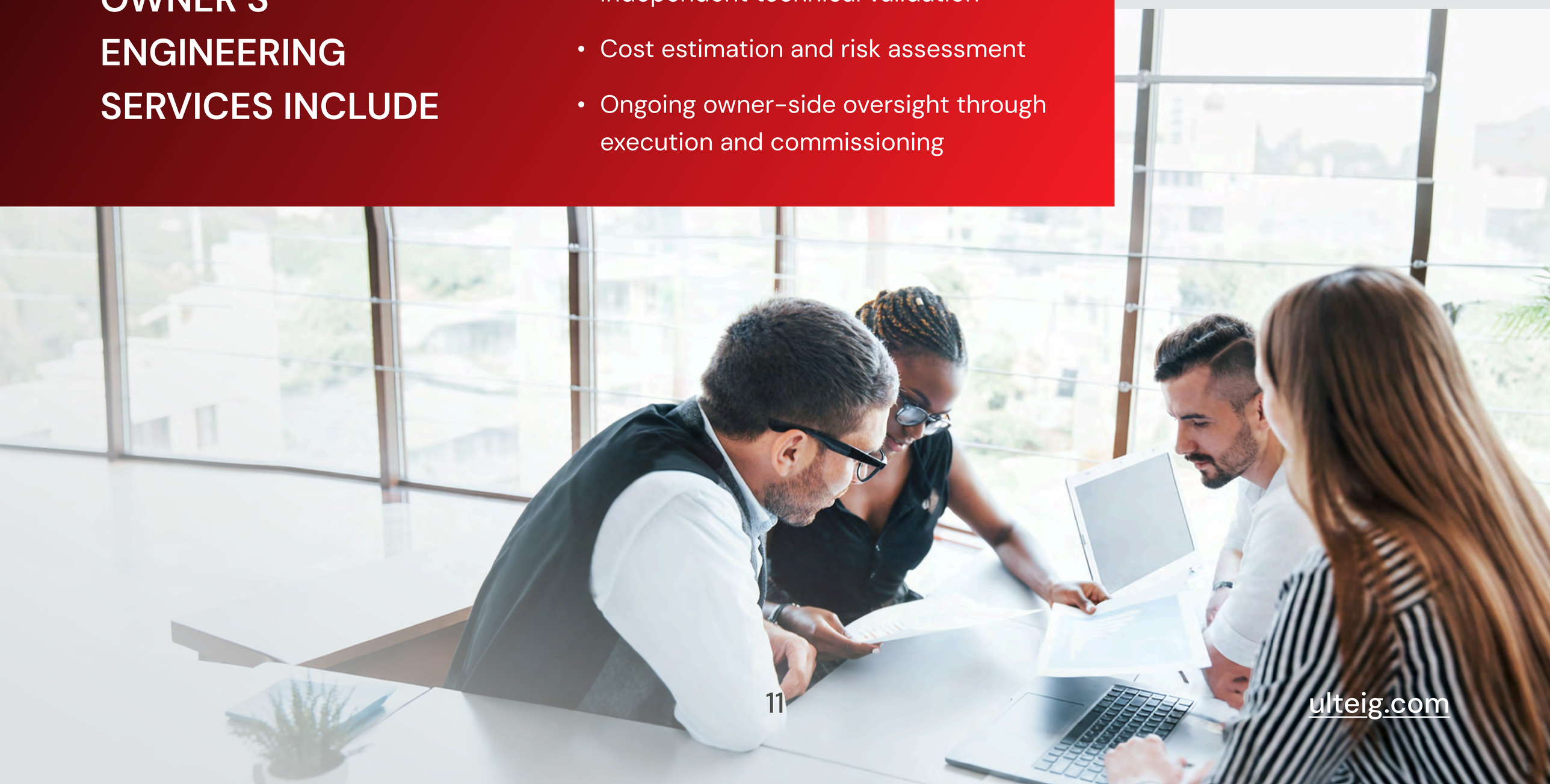
Complex projects often involve multiple stakeholders, contractors, vendors and technical perspectives. As projects progress, maintaining alignment between objectives, technical requirements and owner expectations becomes increasingly important. Owner's engineering provides utilities with an independent technical advocate focused on protecting the owner's interests throughout the project lifecycle.

While owner's engineering often extends through execution, its value begins early. Independent technical guidance can help validate project assumptions, assess technical and commercial risk, evaluate design alternatives and identify constructability considerations before major commitments are made.

Ulteig's owner's engineering services allow utilities to maintain continuity between development, design, construction and commissioning while reinforcing project goals, reliability requirements and long-term performance expectations.

FEATURED OWNER'S ENGINEERING SERVICES INCLUDE

- Feasibility support
- Independent technical validation
- Cost estimation and risk assessment
- Ongoing owner-side oversight through execution and commissioning



A Trusted Advisor to Support Alignment

For utility owners, this often means having a trusted advisor available to evaluate contractor recommendations, review design assumptions, recognize potential risks and help ensure project objectives remain aligned with standards, scope, performance, business goals and budget exposure.

Common questions addressed through owner's engineering support include:

- **Do we have the right technical advocate supporting our interests?**
- **Are project assumptions and execution strategies aligned with our objectives?**
- **Where might technical or commercial considerations emerge?**
- **How can we better protect project performance, reliability and budget outcomes over time?**

Independent oversight lets utilities detect emerging risks earlier, evaluate contractor recommendations more effectively and maintain alignment between technical requirements, project objectives and budget expectations. When owner's engineering involvement begins early, utilities benefit from continuity, technical alignment and consistent advocacy throughout the project lifecycle.



That structure helps protect investments, maintain standards and reinforce confidence from project development through final sign-off.

Where Ulteig Fits In

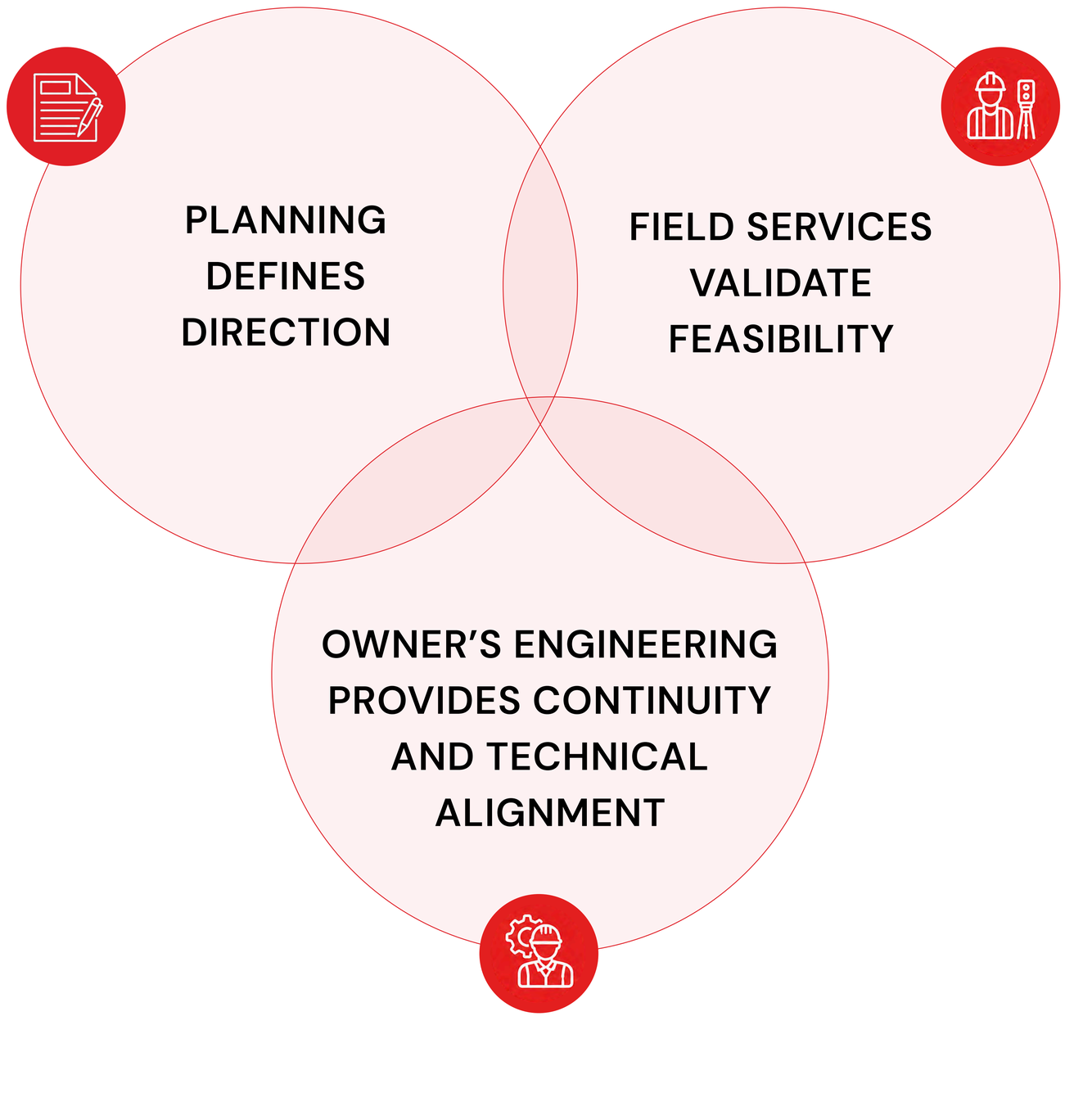
No two projects are alike.

Some utilities need reinforcement to understand future system needs and determine what investments should move forward. Others need field-based validation that helps clarify project feasibility and requirements. Still others benefit from an independent technical advisor who supports objectives throughout development and execution.



These needs are distinct, but they are connected by a common goal: establishing technical, regulatory and field-based validation before significant capital is committed.

That is where Ulteig's early-stage consulting services provide value.



Utilities may engage one service area individually or combine multiple services depending on project goals, internal resources and development timelines. In some cases, planning and field services naturally overlap as projects move from strategic evaluation into feasibility assessment. In others, owner's engineering begins early and continues through execution to provide continuity and oversight.

Regardless of the entry point, the objective remains consistent:

Enabling utilities to make informed decisions earlier, strengthen alignment and move forward with greater clarity.



Moving from Complexity to Action

Utilities benefit from practical reinforcement that turns information into decisions, validation that strengthens project direction before detailed design begins and trusted advisors who understand both technical requirements and business priorities.

Ulteig brings together strategic planning expertise, field experience and technical depth to support these early stages. Our teams can provide targeted consulting assistance, serve as independent technical advisors or deliver integrated services that move projects from concept through execution.

Every utility has unique challenges, priorities and timelines. Our approach is built around delivering the right expertise at the right point in the project lifecycle.

The decisions made before design begins often have the greatest influence on project cost, schedule, permitting success and long-term system performance. By helping clients validate assumptions, recognize constraints and strengthen project justification early, Ulteig supports more efficient project development and more informed investment decisions.

From planning to field services to owner's engineering, Ulteig empowers utilities to move from idea to design with clarity and direction.

Talk to Ulteig about the early stages of your next project.

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