

Substation

We engineer, procure, and construct substations that form the backbone of a reliable grid — handling every phase from site assessment to energization under one accountable team. One partner, one seamless path from blueprint to live, delivering projects built for decades of safe, dependable performance.



Building world-class substation projects:

- Early engagement with all key stakeholders
- Feasibility and constructability studies
- Permitting and regulatory compliance
- Engineering design services
- Identification and procurement of long lead items
- Surveying and Lidar
- Site work
- Foundations
- Grounding
- Structure erection
- Bus work
- Conduit and cabling
- Control Wiring & Terminations
- Instrumentation
- Assembly
- Setting and wiring of substation equipment
 - » Transformers
 - » Circuit breakers
 - » Capacitors
 - » Regulators
 - » Control panels
 - » Lightning arresters
 - » Switches
 - » Reclosers
 - » Relays
- Commissioning and Testing
- As-Built Documentation

Key to construction is stakeholder engagement. WHC oversees early contractor engagement, ensuring landowners, communities, municipalities and regulatory bodies all understand the scope of the project and are in alignment with the construction plan. We work carefully to ensure clear, concise and transparent communication between the key stakeholders, the client and us.

From site selection, to permitting and clearing land, to ensuring the foundations are set for heavy equipment access and then the actual construction of the substation, the process from start to finish requires a combination of engineering and construction expertise. Every step of the way, WHC will guide the process to ensure safe, reliable completion.

Following site selection and preparation is the early dirt-work where all the ground grid, conduit and cable trench is installed. Foundations are then poured to exact specifications, and then the structural steel is assembled. Next, the major equipment is set, cables are pulled in and all terminations are made according to code.

Our team of engineers as well as our safety and quality professionals keep a watchful eye to ensure all goes well during these crucial phases. But the real magic happens when our commissioning crews arrive to perform all the necessary tests and finally connect the station to the power grid.

At all stages, precise, technical engineering, accurate procurement and an understanding of industrial construction is critical to a safe and successful substation project delivery.

WHC's experience in engineering, procurement and construction, and its depth of technical understanding, means we are capable of managing substation construction from early contractor engagement to commissioning, ensuring a safe, reliable and quality product.





WHC – A Surerus Murphy Company constructs critical infrastructure for the Power sector. We support the full cycle of construction, from early contractor engagement to commissioning and hand-over to the client, and all the steps in between. We are large enough to tackle mega-projects and be successful in managing their complexities, and nimble enough to work on smaller capital projects where there is a need to respond quickly to client needs.

What makes us unique is:

Our bench strength. Between us and our parent companies, there is hardly a challenge we haven't seen before, but if there is, we have a depth of skillsets we can call on to help us find solutions.

Our focus on collaboration. We believe in ongoing, transparent communication and we are willing to have the hard conversations when they are required. We don't just work with our clients, we build partnerships.

Our unwavering commitment to safety. Safety isn't just something we say we do; we live it. It is one of our core values. Working safely anchors our drive to be a contractor of choice because we can't be one without the other.

Our delivery of consistently reliable construction. We care deeply about delivering quality to our customers and providing thoughtful and supportive customer service. When we build reliably, we also deliver quality, safety, partnership and value.

Our commitment to our core values. Our core values of Never Harm, Trust, Integrity and Assured Delivery guide how we work with each other, our stakeholders and our clients. We keep our core values alive and recognize each other when we see them in action.

Building World-Class High Voltage Power Delivery Projects

WHC has the knowledge and know-how to safely deliver high-quality EPC services for Substations and Gen-Ties.

Our focus is on the engineering, procurement, and construction of Substations and Gen-Ties up to 500kV.

Our competent and qualified teams, combined with our extensive fleet of equipment, offer world-class EPC services to IPPs and electric utility companies.

We successfully build substation projects across the United States, in urban and rural settings, and across a variety of landscapes.

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