



Grid Solutions

By reimagining the grid and turning it into a resilient and intelligent system, we can all experience clean, reliable energy.



BLACK & VEATCH



Find Your Path

Black & Veatch sees across the grid, giving you the vantage point to uncover your infrastructure's value and to guide you along the path to a reliable, sustainable energy future.

From upfront studies to full engineering, procurement and construction services, we deliver transmission, distribution, and the communications, cybersecurity and automation systems to effectively deliver and receive power.

It's everything from deploying resilient grid infrastructure to the digital systems collecting and transporting data to the grid automation essential for visualization and optimization.

Wherever you are in this journey, whether in the initial grid planning stages or program implementation, we can help. With Black & Veatch by your side, you'll gain experience and expertise across all essential grid components to accelerate your grid and energy transition.

Integrated Grid Solutions



Power

- Overhead Transmission
- Underground Transmission
- Distribution
- Substations (Air & GIS)
- HVDC and FACTS
- Renewable Integration

Connect

- Private LTE
- Wireless & Fiber Networks
- Microwave & LMR
- IT Networks
- Cyber & Physical Security
- Data Centers

Visualize & Optimize

- Distribution Automation
- Grid Protection & Control
- Substation Automation & Integration
- Volt/VAR Optimization
- Smart Metering & AMI
- SCADA Systems

Start the Journey

Transforming and connecting to the grid involves major investments, equipment and manpower. It demands a trusted partner.

Through powering the last century's grid to today's digital one, we have solved challenges that sparked generations of innovation. We continue this legacy by tackling today's issues. Whether it involves integrating renewables, unpredictable climate change, cyber threats or increased electrification, we know where the answer lies in the grid system, because we helped design and build it the first time.


We want to help create a grid that works together, value engineered and constructed to fit seamlessly with your operation. We work with you to understand your goals and objectives from the start, so we can plan, engineer and build the right solution for your today and tomorrow.

Black & Veatch has the flexibility, scale, resources and execution expertise to provide assurance your projects, no matter the size, will be delivered on time, on budget and to the quality standards required.

Execution Expertise



Program Management: Leverage our experienced project managers, tools and processes to strategically develop implementation plans that perform safely, on schedule and on budget.

 <p>Planning & Advisory</p>	<p>Make informed decisions on future investments with in-depth assessments and analysis</p> <ul style="list-style-type: none">• Grid planning & power system studies• Grid modernization strategy• Equipment evaluations and selection• Environmental studies• DER interconnection strategy & coordination• NERC compliance & FERC regulatory support
 <p>Engineering</p>	<p>Ensure design meets permitting, performance and constructability requirements</p> <ul style="list-style-type: none">• Owner's engineer• Civil, structural, mechanical, and electrical engineering• Economic feasibility & evaluations• IT Network architecture and cybersecurity• Permitting
 <p>Execution</p>	<p>Access flexible project delivery models, including both union and open-shop construction arms, to fit any project, no matter the scope or location</p> <ul style="list-style-type: none">• Procurement• Material management• Construction Management• Self-performed Construction• Installation, testing & commissioning
 <p>Asset Management</p>	<p>Make certain operations operate at the optimal level</p> <ul style="list-style-type: none">• Monitoring and diagnostics• Distribution management systems (DMS/ADMS)• Energy Management Systems• Operating procedure design• Storm hardening and restoration• Life assessments



EPC: Transition effortlessly from desktop to field to ensure the design is constructed, installed and commissioned to work as intended - safely, cost-effectively and reliably for years to come.

For a century, utilities trusted us to design and build the power grid.
You can turn to us for tomorrow's.



Ranked among the
top in Power &
Telecom design by
ENR



25+
Years of
EPC experience



165+
GW of Renewables &
2,500 MWh of battery
energy storage

70+ Years

Legacy of T&D
projects



150K+
Wireless sites



900+
Grid Solutions
Professionals



Avg **2,000+**
substation projects
per year

Achieve Growth, Sustainability and Resilience

With offices across the U.S., Canada and globe, we deliver local expertise to help you go where you need to grow. Our long-standing reputation for planning and engineering sustainable, resilient energy infrastructure combined with strong in-house procurement, construction and program management capabilities makes us a valuable industry partner.

Learn more about how our tools, processes and grid solutions can help your projects safely achieve growth, sustainability and resilience - today and for years to come.

Invisible. Invaluable.

Infrastructure is more than substation equipment and miles of transmission line. We uncover the grid's potential to accelerate growth, eliminate carbon emissions, and harden systems so it works for good.

