



Routing Services

Defendable and quantitative routing and siting studies.

In addition to maintaining an aging grid, utilities are facing new challenges as today's energy landscape is evolving, requiring new transmission paths. Black & Veatch provides innovative and cost-effective routing solutions to these complex challenges. We offer comprehensive GIS-based routing services as well as other new and operating asset services and program management in right of way acquisition, environmental

permitting, engineering, procurement, and construction. Our broad experience and proven history provides efficient planning, routing, design, and construction solutions to minimize environmental and landowner impacts, ensure reliability, and meet your stringent cost and schedule requirements.

bv.com/power



BLACK & VEATCH



Routing Service Offerings

- Routing & Siting Feasibility Studies for linear facilities (T-lines, pipelines, roads) and non-linear facilities (substations, power plants, battery storage)
- Existing easement due diligence review to provide an analysis of existing property rights
- Public outreach support
- Constructability review and cost estimating — Routing Deliverables used to determine constructable routes
- Access roads (permanent and temporary) routing and design
- Environmental review and permitting support (Wetland, RTE, Cultural, FAA)
- ROW Cost Analysis — routing analysis provides estimated impact per landowner if parcel info is provided

Other Services:

- Overhead Transmission Line Engineering
- Underground Transmission Line Engineering
- BOLD®
- Illuminator
- Right-of-Way Acquisition
- Engineering
- Permitting
- Site Development
- Geotechnical

Execution Approach

- Routes prepared using a GIS-based automated routing tool with a library of approximately 1,000 GIS data sources.
- GIS data sources are updated continuously to ensure accuracy of routing. Site reconnaissance still performed to confirm accuracy of GIS data.
- Nationwide data is available so routing analysis is able to be provided anywhere within the United States for urban or rural areas and for underground or overhead lines.
- Routing analysis tailored for each project and client needs and to address any environmental, landowner, historical or other concerns.
- Detailed reporting (crossing reports and mile-posted KMZs) provided at every stage to promote collaboration.
- Risk and criteria identified early in the routing process, which avoids costly reroutes.
- With the use of the automated routing tool; up to 50% schedule and project cost savings compared to manual routing approaches. Routes and deliverables typically provided within days.
- Routing is performed without contacting 3rd party agencies to obtain GIS data, so projects are able to continue year-round.

Current Projects

Currently conducting confidential routing studies for both underground and overhead transmission line projects in urban and rural areas.