



Powering Data Centers and Technology Manufacturing Facilities

What you can't see can make all the difference.

Power is the critical unseen foundation for data centers and technology manufacturing facilities. With significant challenges to accessibility and affordability of energy, building substations on-site allows owners control, flexibility, security and, most importantly, access to power quicker.

Black & Veatch makes the invisible invaluable by deploying both the physical and digital infrastructure for substations giving you proven solutions, regardless of project size or technology. We provide planning, configuration, siting and permitting services for all types of substations.



BLACK & VEATCH

Substations

Providing power on schedule and on budget

Black & Veatch's experience in deploying both the physical and digital infrastructure for substations gives you flexible, proven solutions, regardless of project size or technology. We provide planning, configuration, siting and permitting services. Our design, construction and commissioning services ensure optimum performance.

Flexible Solutions for Data Centers & Technology Manufacturing Facilities

We've successfully designed and constructed substations that include a wide variety of bus configurations and voltage levels. These range from 4 kilovolts (kV) for distribution substations through 765 kV class transmission switching stations and switchyards, including those that ensure reliable electric system operation at generation facilities.

Air-Insulated Substations

We can conceptualize, plan, site, design, procure and construct any air-insulated substation configuration in the industry today, including current communication and smart grid technology. Our experience serving as engineer and as engineering, procurement and construction (EPC) contractor allows us to anticipate challenges and propose technically sound and economically viable alternatives.

Gas-Insulated Substations

Because of the large size of some new air-insulated substations, our creative GIS solutions often provide the best alternative when considering the environment, cost and aesthetics. Our seasoned professionals specialize in GIS design and construction and blending facilities into the surrounding locale.

Substation Upgrades and Retrofits

As legacy substation infrastructure reaches end of life, power demands shift, and advanced technologies emerge, opportunities have never been more ever-present for utilities to innovate. Leverage our design and construction experience and knowledge of the latest technologies to increase cost savings, achieve efficiency gains and reach sustainability goals through substation upgrade and retrofit solutions.

Substation Automation and Integration

Intelligent automation technology gives utilities better monitoring and control, while ensuring efficient and reliable transmission and distribution networks. Black & Veatch can design and deploy the latest technology for substation automation and supervisory control and data acquisition (SCADA) for more efficient, secure and intelligent systems.

Learn more at bv.com.