TECHNICAL CONDITION ASSESSMENTS OF DATA CENTERS

Black & Veatch offers vendor-neutral evaluations of the physical facility and an analysis of operating practices of current or prospective data centers. We assess and compare the space, power, cooling, security, operational processes & procedures, communications networks, and energy efficiency, to industry standards (i.e. Uptime Institute Tier) and identify simple improvements that can reap efficiencies with little investment.

Black & Veatch has been providing innovative data center solutions with clients around the world for more than 35 years – with many long-term engagements stemming from an initial assessment.

Our consultative and collaborative approach with clients and stakeholders allows us to identify risks within the existing infrastructure, processes, operations, and networks through condition assessments, capacity analysis, due diligence, reliability/Tier appraisals, and point of failure analysis.

We also develop accurate and actionable roadmaps with cost estimates. Our reports identify improvements that will enhance efficiency, reduce cost of operations, reduce risk, and integrate new technologies to meet business requirements.
Black & Veatch has extensive experience completing data center assessments for commercial, industrial, and mission critical facilities. Our teams of specialists and engineers have the expertise to analyze a full range of alternatives to determine the optimal technology and configuration based on the unique load profile, reliability requirements, cost, and site constraints for each application.

Our studies typically consist of the following major stages; however, each assignment is unique and is tailored to our client’s requirements and objectives.
The projects below represent varied examples of engagements along with the range of services provided to meet the requirements of our clients and their complex mission critical facilities.

PROPERTY CONDITION ASSESSMENTS – TECHNICAL DILIGENCE
DIF CORE INFRASTRUCTURE FUND | AMSTERDAM, NETHERLANDS
Black & Veatch provided a review of data room technical information for four large multi-tenant data centers and created red-flag reports in advance of site visits.

PROPERTY CONDITION ASSESSMENTS – TECHNICAL DILIGENCE
NORTHLEAF CAPITAL PARTNERS | SAN JOSE, CA; DALLAS, TX AND ST. LOUIS, MO
Black & Veatch assessed data room technical information and developed findings reports focused upon data room reviews, CapEx and OpEx forecasts, Single Point of Failure analysis, capacity analysis, expansion feasibility analysis, energy efficiency assessment, TIER Analysis, and fiber optic assessments for data centers in Dallas (76,000-sq. ft.), St. Louis (130,000-sq. ft.) and San Jose (27,000-sq. ft.).

PROPERTY CONDITION ASSESSMENTS – TECHNICAL DILIGENCE
LANDMARK DIVIDEND | INDIANAPOLIS, IN
Black & Veatch assessed data room technical information and developed findings reports focused upon review of data room information, CapEx and OpEx forecasting, site visits, single point of failure analysis, capacity and expansion feasibility, energy efficiency assessment, code compliance, TIER analysis, and assessment of fiber optic communications networks.

ASSESSMENT AND MASTER PLANNING FOR UTILITY DATA CENTER
AVANGRID NETWORKS, INC. | VARIOUS LOCATIONS IN THE NORTHEAST
Black & Veatch is developing a master plan for Avangrid’s energy control centers to define a path to strategically consolidate facilities, improve management efficiencies, reduce costs & minimize risk.

MISSION CRITICAL FACILITY SYSTEMS AUDIT
CHESAPEAKE MISSION CRITICAL | SMITHSONIAN OCIO
Black & Veatch is conducting an electrical & mechanical audit to identify and quantify specific areas of vulnerability as it relates to critical systems for the Smithsonian OCIO high-density computing project. We are also developing space, power, and cooling/containment to support the deployment.

DATA CENTER CAPACITY UPGRADES
CYXTERA | MULTIPLE LOCATIONS
Black & Veatch has provided design analysis, engineering, cost estimation, commissioning, and construction administration services for Cyxtera on over 20 projects since 2016. Most recently, we were engaged to provide design analysis and engineering for modification and upgrade the data center cooling systems and heat exchangers at data centers in California and Colorado.

DATA CENTER IMPROVEMENT AUDIT
PROTECTIVE LIFE INSURANCE CO. | BIRMINGHAM, AL
Black & Veatch provided an assessment of PLIC’s entire data center, including network operations center, security, utility infrastructure, maintenance, and personnel. We delivered recommendations to effectively manage the data center, so downtime was minimized, troubleshooting was easier, and infrastructure was more efficient.
GLOBAL EXPERIENCE WITH LOCAL EXPERTISE

WE HAVE MORE THAN 100 GLOBAL OFFICES TO QUICKLY DELIVER MISSION CRITICAL/DATA CENTER PROJECTS IN VIRTUALLY ANY LOCATION.

Black & Veatch provides the infrastructure to keep the world connected. We have global design and build capabilities through our network of worldwide offices. This local knowledge and global reach save you both time and money.