

Electrical Resiliency-as-a-Service

DATA CENTERS

MORE SUSTAINABLE

Data centers require significant electrical power to function. Having a resiliency solution in place for full facility protection from outages of any type or duration is critical to business continuity. These facilities must be resilient against disaster events that affect the grid to remain competitive. Enchanted Rock is a industry leader in electrical resiliency-as-a-service. Our advanced dual-purpose microgrids protect companies, critical infrastructure and communities from unexpected power outages - ensuring businesses continuity and civic durability.

CLEAN-BURNING MICROGRIDS

Data centers typically utilize diesel generators for backup power, which require frequent maintenance and are a financial burden. Alternatively, our natural gas microgrids perform like diesel generators, but they are more reliable, cost-effective, and much cleaner. Natural gas has an underground infrastructure that remains unaffected by weather events and grid disturbances, allowing the microgrid system to provide continuous power for any duration - ranging from days to weeks with no refueling.

ASSET MANAGEMENT SERVICES

Enchanted Rock's resiliency-as-a-service solution with its dual-purpose microgrids enable companies to stay powered and communities to be resilient. Data Centers are able to choose a subscription- based service or elect to own the supported asset where Enchanted Rock helps you reduce risk, maintain resiliency and enhance operations 24/7/365. The Enchanted Rock's offering, delivers resilient backup power, often at half the price of diesel, by financing, operating, and maintaining the systems. This turnkey solution allows data center operators to focus exclusively on providing critical IT services.

WHY ENCHANTED ROCK



Solutions meet CARB DG emissions standards—the most stringent limits in the world



99.999% combined reliability for entire data center



Electrical protection from severe weather, rolling blackouts, cyberattacks and grid failure



Net-zero emission with natural gas / renewable natural gas. 10X cleaner than diesel



Up-time performance with continuous monitoring and maintenance



CAPEX/OPEX reduction



10 seconds fast start, rich burn technology



24/7/365 monitoring and management via mNOC

Enchanted Rock's dual-purpose microgrid are powered by ultra clean natural gas. The gensets have a compact, patent-pending packaging design that results in a small footprint. The modularity is taken one step further by creating power that centralizes all of the generation onto a daisy-chained MV bus that connects to both A and B sides of the switchgear. This means that single gensets can be taken out of service for maintenance without greatly affecting reliability, which is a major difference from a standard backup power design.



CLEANER, MORE EFFICIENT POWER

The data center industry has successfully demonstrated its commitment to environmental initiatives. However, the diesel generator fleet at most data centers runs counter to these achievements. Diesel fuel emits high levels of carbon, particulate matter, and NOx when compared to a natural gas equivalent. Enchanted Rock's microgrids have significantly lower emissions than Tier 2 and even Tier 4f diesel generators. For example, Enchanted Rock's zero-hour emission factor for NOx is 4000 times lower than Tier 2 diesel engines and 400 times cleaner than a Tier 4f diesel engine. The resiliency microgrids have a quick-response nature in grid-synchronous mode that allows them to provide ancillary services to grid operators. Grid operators can then balance intermittent renewables and further the integration of renewable energy sources.

COST-EFFECTIVE BENEFITS

Enchanted Rock's dual-purpose microgrids have the added benefit of providing additional financial streams, making the assets cost-effective for data center operators. With our fully-managed and sustainable microgrids, Enchanted Rock has reimagined the way companies ensure business continuity in the face of grid failure. Coupled with comprehensive support services, our team of experts designs, installs, operates and maintains purpose-built systems that enable worry-free protection from extended electrical outages.

ENCHANTED ROCK BY THE NUMBERS



270+ Operational Microgrid Sites



565+ MW Commissioned



260+ MW Under Construction

Stats as of August 2022